Aug. 17, 1948. F. F. O'TOOLE 2,447,203

OCCUPANT PROPELLED ROUNDABOUT

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Fig. 1.

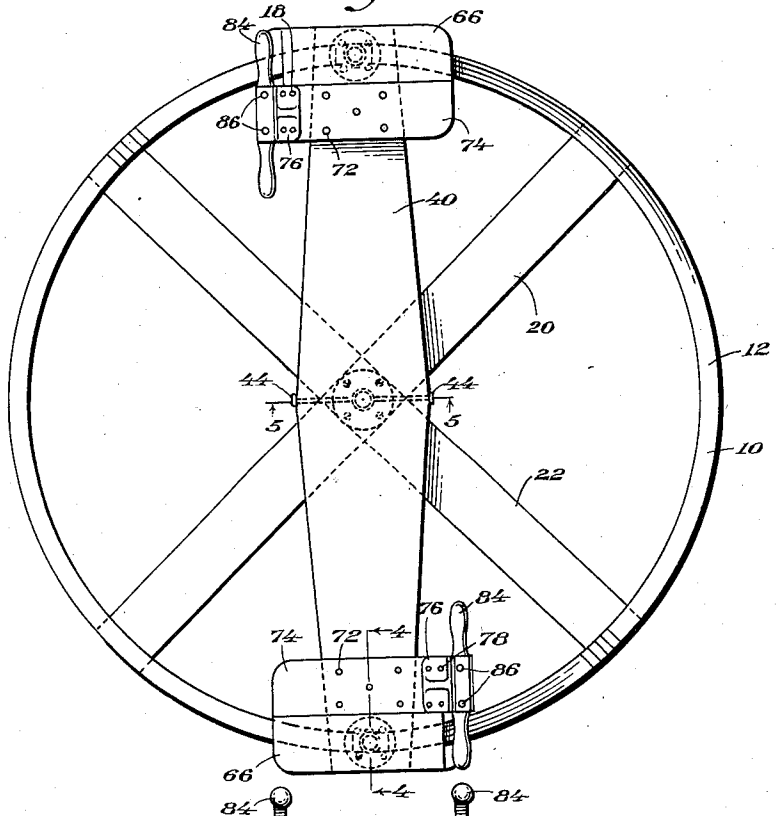
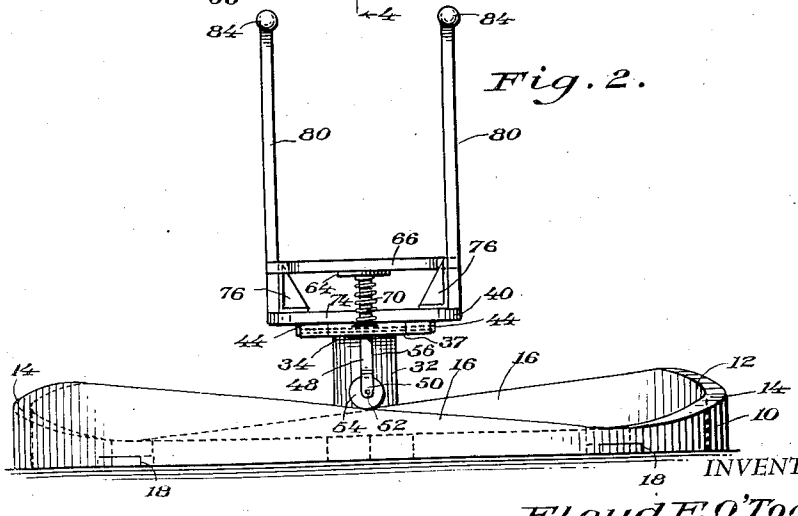


Fig. 2.



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Fig. 3.

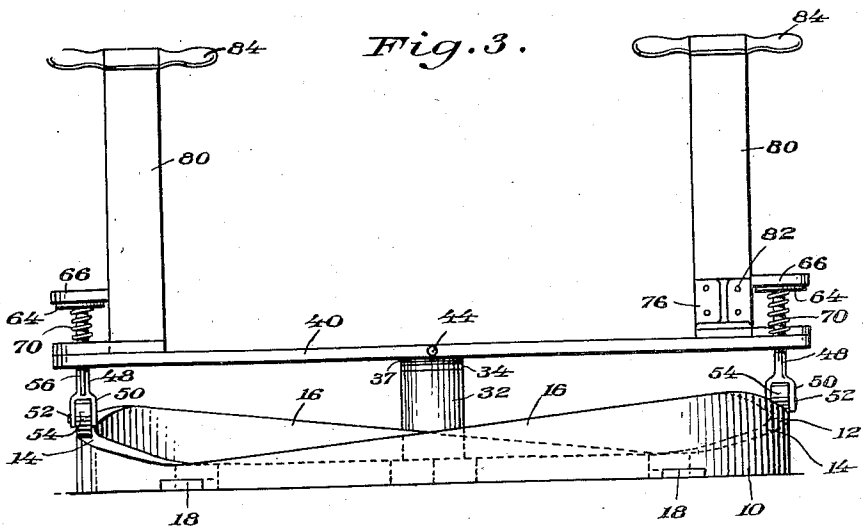


Fig. 5.

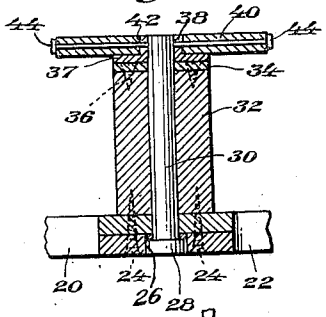
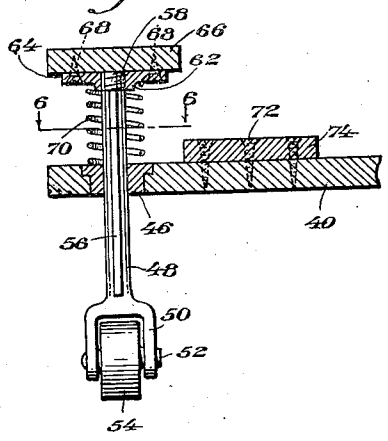


Fig. 4.



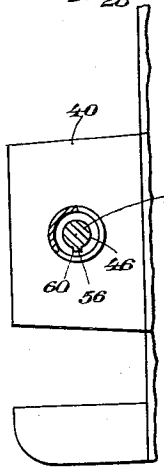


Fig. 6.

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Patented Aug. 17, 1948 2,447,203

UNITED STATES PATENT OFFICE

2,447,203

OCCUPANT PROPELLED ROUNDABOUT

Floyd F. O'Toole, L'Anse, Mich.

Application June 4, 1946, Serial No. 674,164

3 Claims. (Cl. 272—33)

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This invention relates to a toy or amusement device that is adapted for use either indoors or outdoors as desired by the user thereof.

An object of the invention is to provide a device whereby the user thereof may obtain a circular ride, accompanied by an ascending and descending motion of a roller engaging member that will aid the user thereof in propelling himself in a circular motion.

Another object of the invention is to provide a device that is simple to operate, durable in use and can be inexpensively manufactured.

With the above and other objects and advantages in view, the invention consists of the novel details of construction, arrangement and combination of parts more fully hereinafter described, claimed and illustrated in the accompanying drawings in which:

Figure 1 is a plan view of an embodiment of the invention;

Figure 2 is a side view thereof;

Figure 3 is similar to Figure 2 but with the carriage moved to a ninety degree angle with reference to Figure 2;

Figure 4 is a sectional view on the line 4—4 of Figure 1;

Figure 5 is a sectional view on the line 5—5 of Figure 1 and

Figure 6 is a sectional view on the line 6—6 of Figure 4.

Referring more in detail to the drawings, the reference numeral 10 indicates a circular track having a convexo-concave upper surface 12 and the inclined sides 14 of the convex portion being shorter than the declines 16.

Secured to the track 10 in seats 18 formed in the bottom peripheral edge thereof in cross relation to each other are the brace members 20 and 22 respectively. At the point of crossing at their medial point, the braces are recessed to form a flush surface and are joined by fasteners 24. The brace member 22 is provided with a seat 26 to receive the head 28 of the pin 30, which extends upwardly in vertical relation to the members 20 and 22. The fasteners 24 also secure to the members 20 and 22, the post 32 through which the pin 30 extends, and a metal bearing surface 34 is secured to the upper edge of the post by fasteners 36. Mounted for rotation on the bearing surface 34 is a second bearing surface 37 having the circular flange collar 38 thereon which engages the upper end of the pin 30 and a propeller arm 40 is provided with a circular seat 42 at its medial point to receive the collar 38 and oppositely directed set screws 44 secure the arm to the collar and pin 30.

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The arm 40 is widest at its medial portion, and tapers inwardly along its marginal edges toward the outer ends thereof, and adjacent the outer ends bearings 46 are provided to receive the vertical shaft 48 having the lower forked end 50 for journalling therein, the axle 52 of wheel 54 which engages the upper surface of the track 10. The shaft 48 is provided with a rib 56 which engages a keyway 60 in the bearing 46 to prevent rotation of the shaft and the shaft is threaded at its upper end at 58 to receive the threaded collar 62 of the plate 64 secured to the foot rest 66 by fasteners 68, and a coil spring 70 mounted on the shaft 48 engages the bearing 46 at its lower end and the plate 64 at its upper end.

Secured to the arm 40 adjacent the shaft 48 by fasteners 72 is a second foot rest 74 and these rests are used as will be later described for the operation of the toy.

Secured to one end of the rest 74 by fasteners 78 is an angle bracket 76, and an upright 80 is secured by fasteners 82 to the bracket. The upper end of the upright 80 has a handle 84 secured crosswise thereof by fasteners 86 and this upright in conjunction with the complementary opposed upright provides means for propelling the arm 40.

The toy is operated in the manner of a scooter, wherein the user places one foot on the rest 74 and propels the arm with the other foot. As the arm approaches the decline, the propelling foot is placed on the foot rest 66 to depress the rest, in order to engage the wheel 54 with the upper surface of the track. The weight of the occupant is then shifted to the foot on the foot rest 66 to insure sufficient force to maintain the arm 40 in operation. As the roller starts up the incline the rest is released and the weight of the occupant is again shifted to the nonpropelling foot and the foot rest is not again engaged until the roller is again over the decline. Thus the user is moved forward in his circular ride by gravitational force when his weight carries the roller down the incline. The spring will raise the roller out of contact with the track when the foot of the user is released therefrom.

It is believed that the operation and construction of the invention will be apparent to those skilled in the art, and it is to be understood that changes in the details of construction, arrangement and combination of parts may be resorted to, providing they fall within the spirit of the invention and the scope of the appended claims.

Having thus described the invention, what is

claimed as new and desired to be secured by Letters Patent is:

1. A device of the character described, comprising a circular track, elevated portions at diametrically opposed positions on the upper surface of said track, the declines of said track being longer than the inclines thereof, an arm rotatably mounted at the center of said track, a fixed foot rest and a movable foot rest on said arm at its opposite ends, a spring pressed roller secured to said movable foot rest for engagement with the upper surface of said track, upon depression of said movable foot rest.

2. The invention as in claim 1 wherein the arm adjacent the outer ends thereof is provided with uprights having handles on the upper ends thereof for the grasping thereof while propelling said arm in a circular motion about said track.

3. The invention as in claim 1 wherein the roller is provided with a shaft for the mounting thereof, and means is provided to prevent rotation of said shaft during the course of travel of the roller over said surface.

FLOYD F. O'TOOLE.