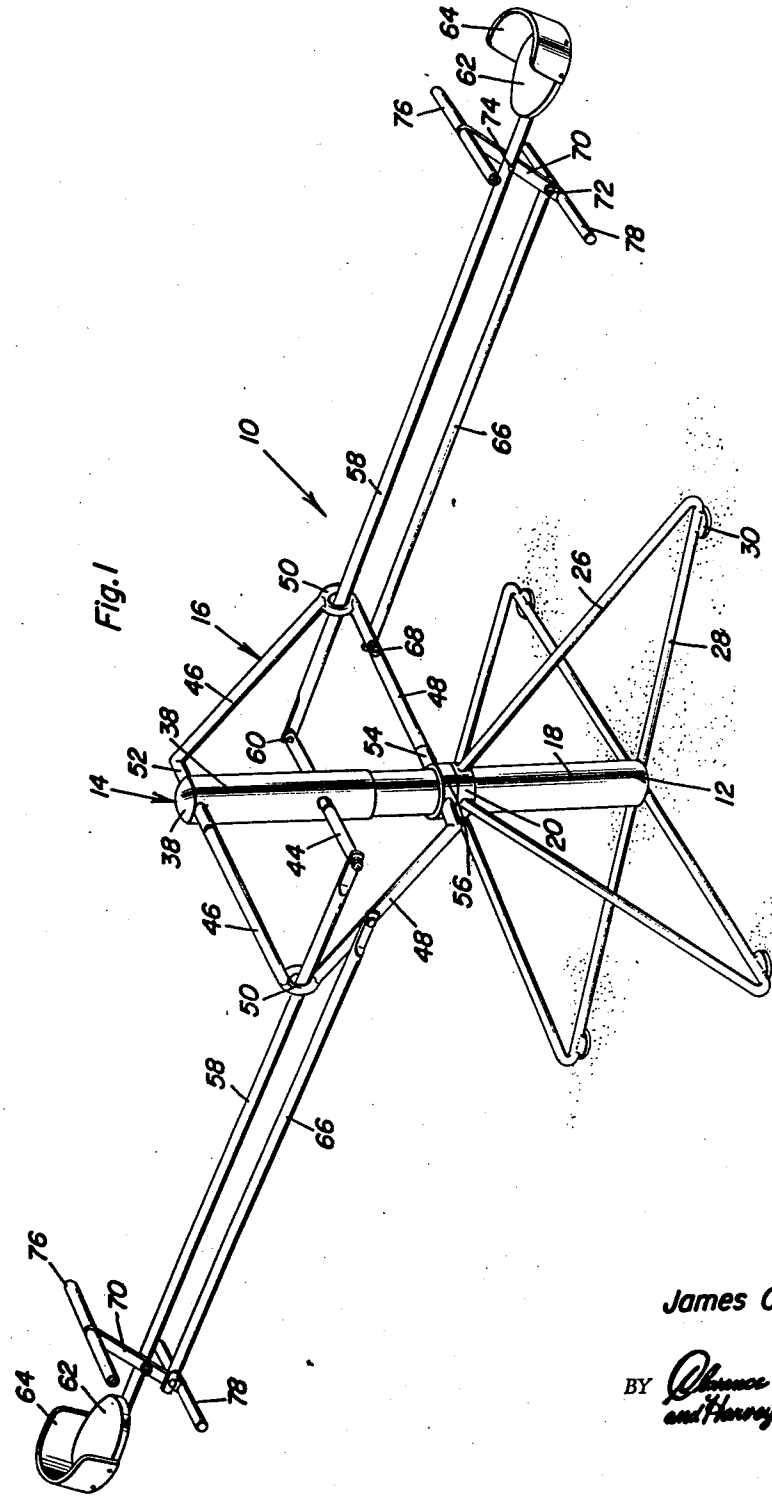
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CHILDREN'S RIDING TOY

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Fig. 1



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Fig. 2

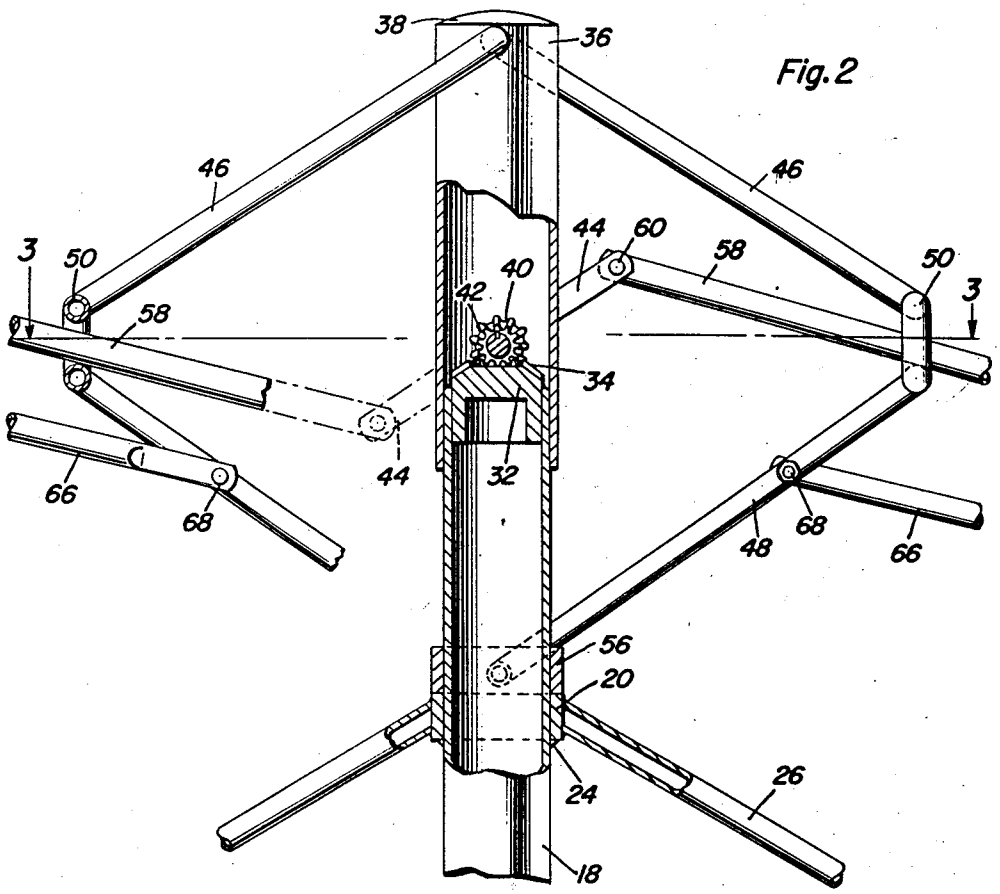
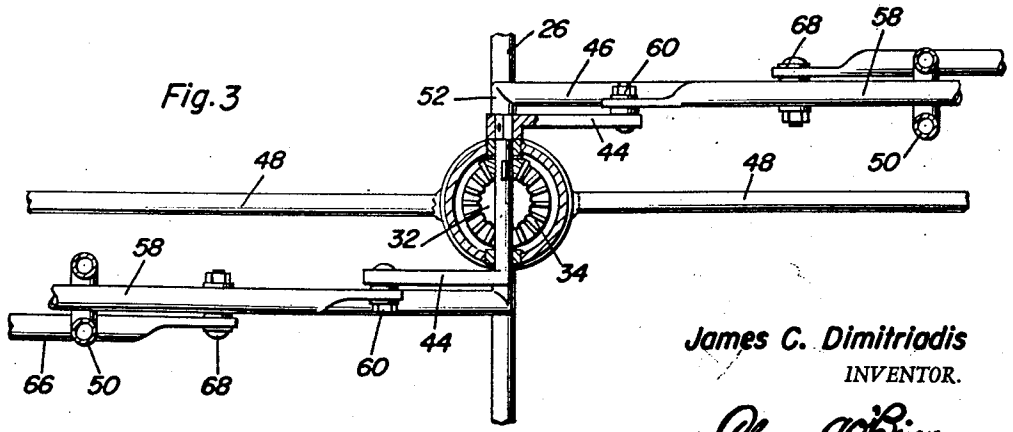


Fig. 3



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CHILDREN'S RIDING TOY

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5 Claims. (Cl. 272—30)

The present invention generally relates to an amusement device and more particularly to a ride device which is propelled by the occupants thereof and which provides a roundabout having undulating up and down movement during rotation about a central axis together with inward and outward radial movement during rotation about a central axis thereby providing a highly novel and entertaining riding device.

A further object of the present invention is to provide an amusement device in the form of a riding toy in which there is provided a rotatable support assembly having elongated support arms with seats thereon together with an elongated connecting link and propelling means operated by the occupant of the seat for causing rotation of the seats about a central axis and also for causing inward and outward radial movement thereof and up and down movement during rotation.

Another object of the present invention is to provide an amusement device which is simple in construction, easy to use, well adapted for its intended purposes and relatively inexpensive to manufacture.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of the ride device of the present invention;

Figure 2 is an enlarged side elevational view of portions of the invention with parts thereof broken away illustrating details of construction; and

Figure 3 is a sectional view taken substantially upon a plane passing along section line 3—3 of Figure 2 illustrating further details of construction of the device.

Referring now specifically to the drawings, the numeral 10 generally designates the amusement device of the present invention including a base generally designated by the numeral 12, a rotatable support member generally designated by the numeral 14 mounted on the base member 12 and a bracket assembly generally designated by the numeral 16 mounted on the rotatable support member for rotation therewith.

The base 12 includes a vertically or substantially vertically disposed tubular upright 18. Spaced below the upper end thereof is a collar 20 preferably welded thereto as by welding 24. Extending downwardly from the collar 20 and outwardly is a plurality of tubular braces 26 which are integral with and terminally secured to horizontally disposed braces 28 which are rigid with the lower end of the tubular standard 18. Ground engaging enlarged members 30 are provided on the horizontal member 28 adjacent the outer end thereof and adjacent its acute angular joint with the downwardly inclined braces 26. The upper end of the tubular member 18 is provided with a closure plug 32 having a bevel gear 34 formed on the upper end thereof whereby the bevel gear 34 is in the

form of a face gear which faces upwardly and which is rigid with the tubular standard 18.

The support member 14 is an elongated tubular member 36 having a closed upper end 38 and an open lower end telescoped over the tubular standard 18 and terminating at a point below the plug 32. Extending transversely of the tubular member 36 is a crank shaft 40 having a bevel gear 42 rigid therewith in meshing engagement with the bevel gear 34 on the plug 32 which is mounted on the tubular standard 18. Each end of the shaft 40 projects from the tubular member 36 and is provided with an offset arm 44 with the arms 44 being disposed in opposed relation to each other in relation to the shaft 40, that is, with one of the arms 44 extending in one direction and the other of the arms 44 extending in the diametrically opposed direction. Inasmuch as the standard 18 is stationary and due to the meshing engagement of the gears 42 and 34, upon rotation of the shaft 40, the tubular member 36 will be rotated about a vertical axis.

The bracket assembly 16 includes a pair of laterally extending and converging brace rods 46 and 48 which are disposed in the same vertical plane and have an eye member 50 integral with and forming the acute angle of juncture between the rods 46 and 48. The inner end of each of the rods 46 and 48 is secured to a short offset portion or rod 52 which secures the rod 46 to the upper end of the tubular member 36 and an offset portion 54 which secures the inner end of the lower rod 48 to a rotatable collar 56 mounted in abutting engagement with the stationary collar 20 thus enabling rotation of the tubular member 36 about its own vertical axis.

Slidably and pivotally extending through the eye member 50 is an elongated arm 58 having the inner end thereof connected to the end of one of the offset arms 44 by a connecting pin 60. The outer end of the elongated arm 58 is provided with a plate 62 and an upstanding U-shaped wall 64 at the outer edge thereof which defines a seat for receiving an occupant. Extending in underlying relation to the elongated arm 58 is an elongated link 66 which is connected to the lower brace rod 48 by a pivot pin 68. The outer end of the link 66 is connected to an elongated lever 70 by a pivot pin 72. The lever 70 also extends past the elongated arm 58 and is secured thereto by a pivot pin 74. The upper end of the lever 70 is provided with handle members 76 while the lower end of the lever 70 is provided with foot pedals 78 both of which are accessible to an occupant on the seat whereby an occupant may alternately pull on the handle 76 and push on the foot pedal 78 and then push on the handle 76 and let the foot pedal 78 move towards him. The offset portions 52 and 54 permits the eye member 50 to be in alignment with the end of one of the cranks or offset arms 44 thus retaining the arm 58 and link 66 in vertical alignment with the action of the amusement device simulating the ride of a merry-go-round or roundabout while at the same time moving upwardly and downwardly in a vertical plane and moving inwardly and outwardly in relation to a rotational axis.

With the occupant in the seat 62 and the handles 76 and foot pedals 78 being operated in a back and forth manner, the arm 58 will move inwardly and outwardly thus causing rotation of the crank defined by the offset arms 44 and the shaft 40. Due to rotation of the pivotal connection 60 about the center of the shaft 40, the outer end of the rod 58 will be caused to move upwardly and downwardly in accordance with rotation of the offset arm 44 whereby the elongated arm 58 will move inwardly and outwardly in the eye 50 and also be pivoted therein. Rotation of the crank shaft 40 of course will cause rotation of the tubular member 14, bracket assembly 16 and seats 62.

The foregoing is considered as illustrative only of the

principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. An occupant propelled roundabout comprising a rotatable support member, an elongated link pivotally connected to said support member for swinging movement in substantially a vertical plane, an elongated arm slidably and pivotally mounted on said support member in coextensive relation to the link, a seat mounted on the outer end of said arm, a lever pivotally interconnecting the link and the arm and extending above the arm at a point adjacent the seat, handles on the upper end of said lever, foot pedals on the lower end of the lever for moving the arm inwardly and outwardly in relation to the link, base means rotatably supporting said support member, an offset arm journaled on said support member with one end of the offset arm being pivotally connected with the inner end of the elongated arm, means interconnecting the offset arm and said base means causing rotation of the support member and elongated arm and seat during radial inward and outward movement of the seat and elongated arm, longitudinal movement of the elongated arm on the support member and rotation of the inner end thereof causing swinging vertical movement of the seat thereby providing a roundabout having in and out, and up and down movement.

2. The combination of claim 1 wherein said support member includes a laterally extending bracket assembly having an enlarged eye member forming a support for the elongated arm which also forms a fulcrum point for pivotal movement thereof, said link having the inner end thereof connected to the bracket assembly below the eye member and forming a guide for the movement of the elongated arm.

3. The combination of claim 2 wherein said means interconnecting the offset arm and said base means includes a stationary upright forming part of the base means and having a gear rigid with the upper end, said support member including a downwardly opening tubular member telescoped over the upright and rotatably mounted thereon, a transverse shaft on said tubular member with the offset arm being mounted on one end of the shaft, said shaft extending above the gear and having a bevel gear thereon in meshing engagement with the bevel gear on the upright for rotating the support member in response to rotation of the shaft.

4. The combination of claim 3 wherein said bracket assembly includes a pair of converging support rods having said eye member at the apex thereof, said rods having offset portions for aligning the elongated arm with the end of the offset arm.

5. A roundabout comprising a stationary base member, a stationary bevel gear mounted on said base member, a tubular support member rotatably mounted on said base member for rotation about vertical axis, a transverse crank shaft rotatably mounted on said support member, a bevel gear rigidly mounted on, said crank shaft in meshing engagement with said stationary bevel gear on the base member whereby rotation of the crank shaft and bevel gear thereon will cause rotation of the support member about a vertical axis, support bracket means extending laterally from the support member, an elongated arm having one end connected to said crank shaft and slidably resting on the support bracket means carried by the support member, an occupant's seat on the outer end of said arm, an elongated link connected at one end to the support means and disposed in substantially parallel relation to the arm, a lever pivotally secured to said arm and link, and handle means and foot pedal means on said lever whereby oscillating movement of the lever will cause rotation of the crank shaft and the support member about a vertical axis, rotation of the crank shaft for moving the inner end of the arm in a circular path thus causing inward and outward movement of the arm and up and down swinging movement of the arm during rotation of the support member about a vertical axis.

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