

Nov. 7, 1950

C. HERRMANN
AMUSEMENT DEVICE

2,528,516

Filed March 23, 1945

4 Sheets-Sheet 1

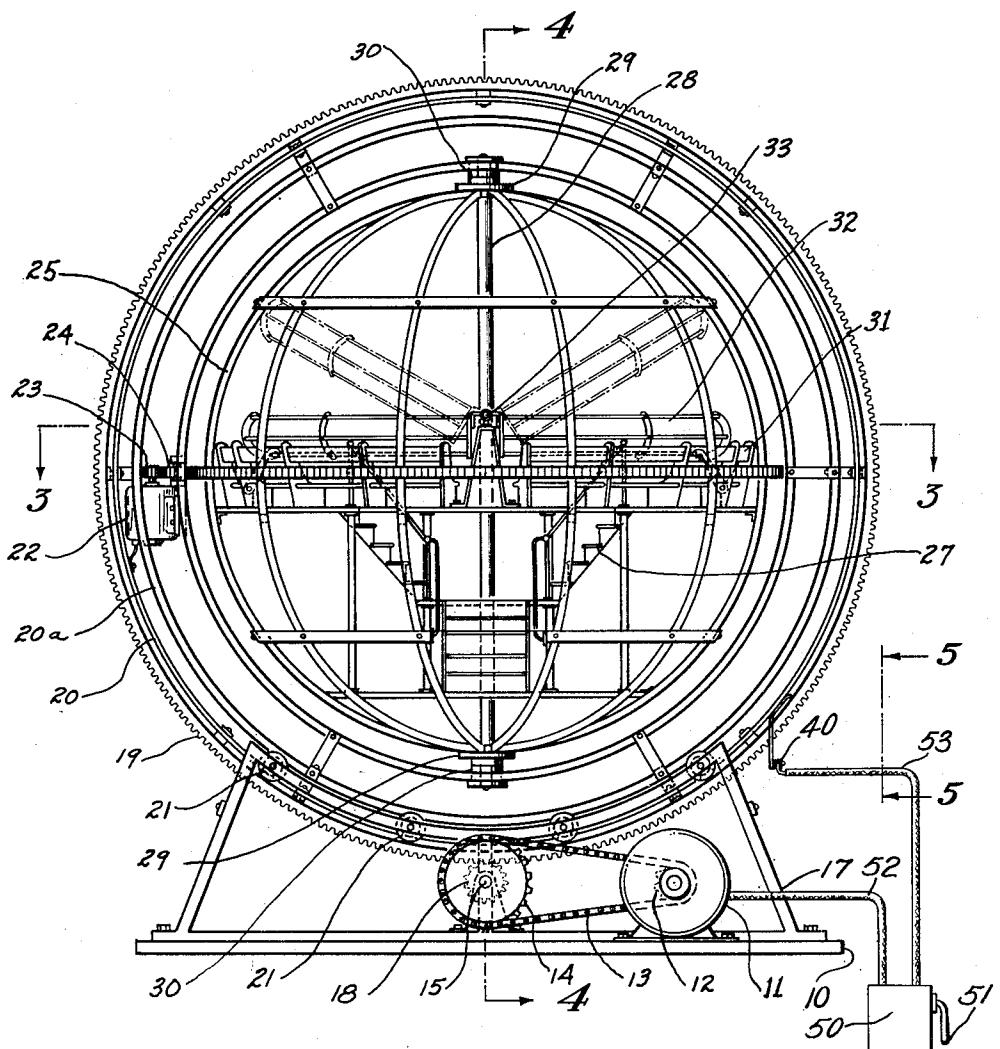


Fig. 1

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Fig. 2

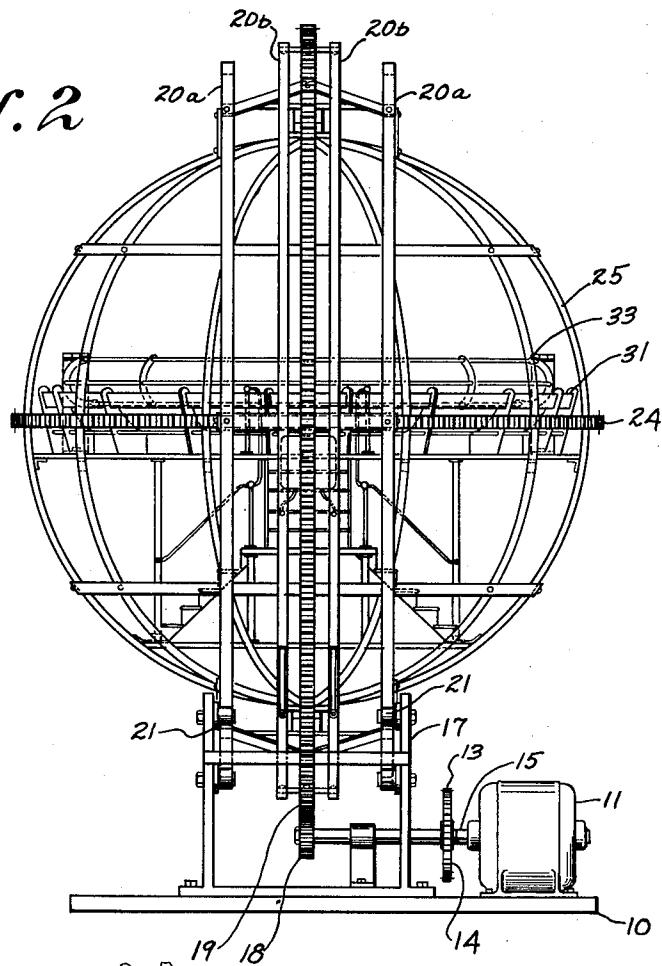
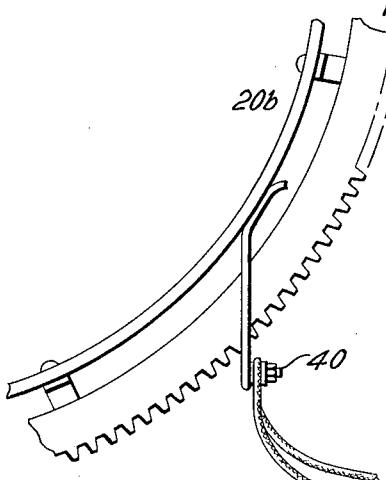


Fig. 6.



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Fig. 3.

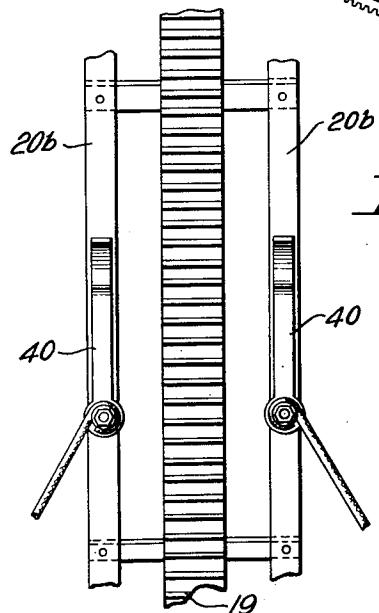
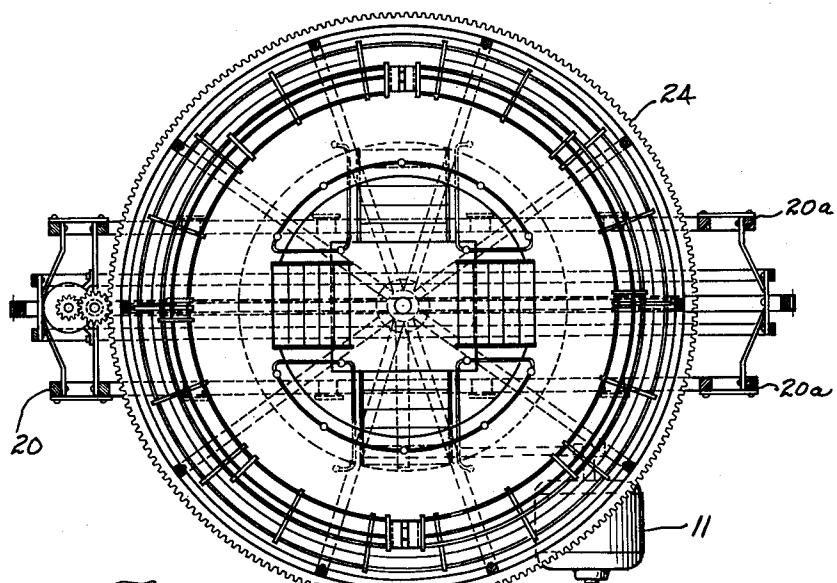


Fig. 5.

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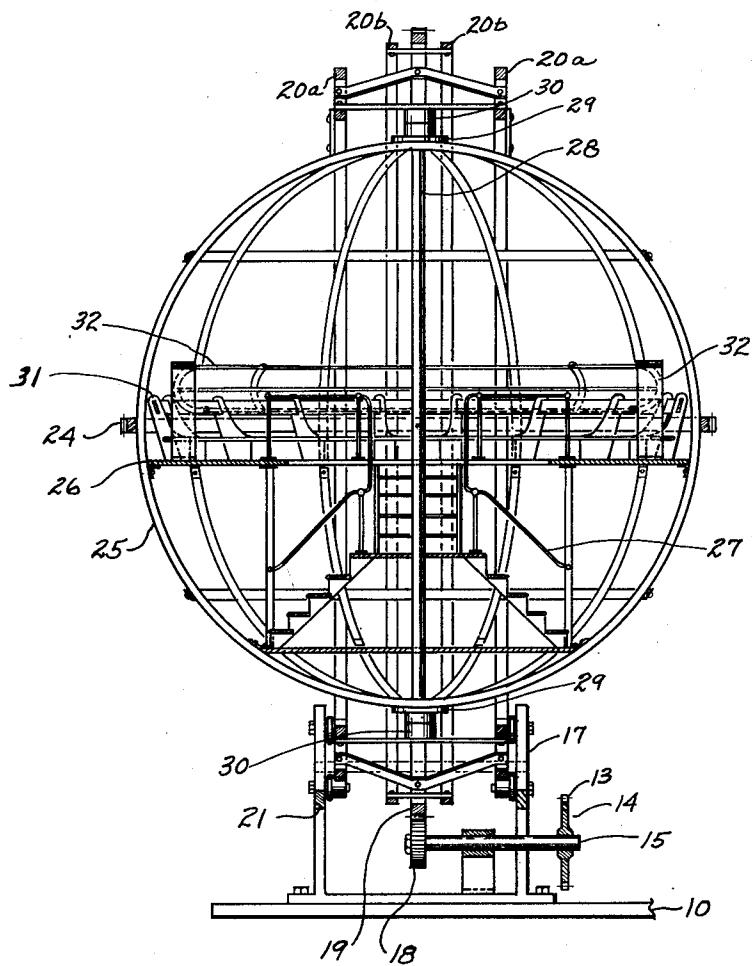


Fig. 4

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UNITED STATES PATENT OFFICE

2,528,516

AMUSEMENT DEVICE

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1 Claim. (Cl. 272—36)

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My invention relates to an amusement device of the passenger carrying class and will hereafter be referred to as the Gyro-Globe. The object of my invention is to provide an amusing and exciting ride for those passengers that may embark thereon, with due provisions for their safety.

In describing my invention reference will be made to the accompanying drawings wherein like characters will be used to denote like and corresponding parts throughout the several views and in which:

Figure 1 is an elevation of my invention viewed from the entrance port.

Figure 2 is an end elevation viewed 90 degrees to Figure 1.

Figure 3 is a section on the line 3—3 of Figure 1.

Figure 4 is a vertical section on the line 4—4 of Figure 1.

Figure 5 shows the current conductor bars and brushes and is viewed at 5—5 of Figure 1.

Figure 6 is a side view of Figure 5.

Referring now more particularly to the drawings, 10 is a base or foundation having a power source or motor 11 mounted thereon and drives a pinion 18 through the drive shaft 15 onto which is mounted the sprocket 14 and driven by the motor 11 through the sprocket 12 and chain 13. The supporting frame 17 is fixedly mounted on the base 10 and has a plurality of supporting rollers 21—21 journaled therein. A vertical ring girder 20 has mounted thereon for the full circumference thereof a ring gear 19 which engages and is driven by the drive pinion 18. 20a—20a are track elements of the ring girder 20 and rests on and are rotatable on the supporting rollers 21—21. Current conductors 20b—20b are supported on ring girder 20 and are energized by a source of current supply through connector bar brushes 40—40 which are suitably supported on said frame 17, method of support not shown. 22 is a horizontal drive power source or motor which is supported on ring girder 20 and is energized by current in the conductors 20b—20b, said motor having a pinion 23 fixed to the shaft thereof, this pinion 23 engages the ring gear 24 which is axially fixed to the exterior framework of the globe 25 which is of open frame ring girder construction. The ring gear 24 is normal to the vertical axis of said globe 25. Platform 26 is a diaphragm within the globe 25 and is suitably pierced for stairways 27. Axis shaft 28 extends through the thrust plates 29—29 and is fixed thereto at both extremities of the globe 25. The extreme ends of axis shaft 28 passes through radial thrust bear-

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ings 30—30 which are fixed to ring girder 20 permitting globe 25 to revolve about said axis. Circumferentially placed above the diaphragm 26 and fixed thereto are seats 31—31. Dual circumferential safety bars 32—32 are journaled in standards 33—33 fixedly attached to diaphragm 26 and are arranged to swing upward and away from seats 31—31 to allow passengers to be seated without obstructions, and to swing downward and toward the seats 31—31, when passengers are seated, into a locked position to retain passengers in their seat.

Control means for regulating the rate of rotation of the motors 11 and 22 is shown in Fig. 1. 15 This control means is of conventional type and is therefore shown schematically. The control means comprises a control box 50, which has one or more control handles 51. Lead wires connecting the motor 11 with said control box 50 are 20 encased in a cable 52. Similarly lead wires connecting brushes 40 with said control box 50 are encased in a cable 53. Control box 50 is connected to a suitable source of electric current. Operation of the handles 51 enable the motors 11 25 and 22 to be controlled separately.

Suitably located and controlled limit switches can be mounted on ring girder 20 to limit and determine the angular movement of the ring girder or to automatically induce an oscillating motion in the vertical frame. These limit switches, a common article of commerce, are not shown.

In operation passengers enter the Gyro-Globe at a suitable opening in the framework, ascend stairway 27 to diaphragm platform 26 and seat themselves. An attendant positions guard rails 32 and secures them for the passengers' safety. Electric current is introduced into conductor bars 20b—20b through brushes 40—40 energizing motor 22 which causes the globe to rotate about its vertical axis within ring girder 20. The rate of rotation is controlled by external means not shown. When this rate of rotation approaches the desired speed, motor 11 is energized and through the driving means causes ring girder 20 40 to revolve about its horizontal axis. Through the limit switches before mentioned an oscillating motion can be imparted to ring girder 20 of varying degrees of angularity or complete revolution as desired by external controlling means not shown. Thus while the passenger carrying globe revolves about its vertical axis the relationship of its axis to the true vertical can be varied at will or oscillated producing a thrilling and exciting sensation to passengers.

55 In reducing my invention to practice I reserve

the right to make such modifications as may be deemed advisable provided such modifications do not fall beyond the scope of my claim.

What I claim is:

A passenger carrying amusement device comprising a foundation, a supporting framework, a source of rotary motion mounted on the said foundation and driving a pinion gear, a ring gear externally fixed to a ringlike structure and engaging the aforesaid pinion, the said ringlike structure resting on supporting rollers journalled in the said supporting frame, a second source of rotary motion carrying a pinion gear mounted internally in the said ringlike structure and engaging an external ring gear externally mounted 15 equatorially on a spherical structure, the said spherical structure vertically journalled in the said ringlike structure, a diaphragmic structure horizontal within the said spherical structure, the said diaphragmic structure carrying passenger 20 seating means and suitably pierced for stairs leading to the base of the spherical structure,

external controlling means for the said sources of rotary motion, slideable electrical conductor means all together coacting to provide a passenger carrying ride wherein the spherical member rotates about its vertical axis and the ringlike structure rotatable or oscillating about its vertical axis under the influence of its controlling means.

CHARLES HERRMANN.

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