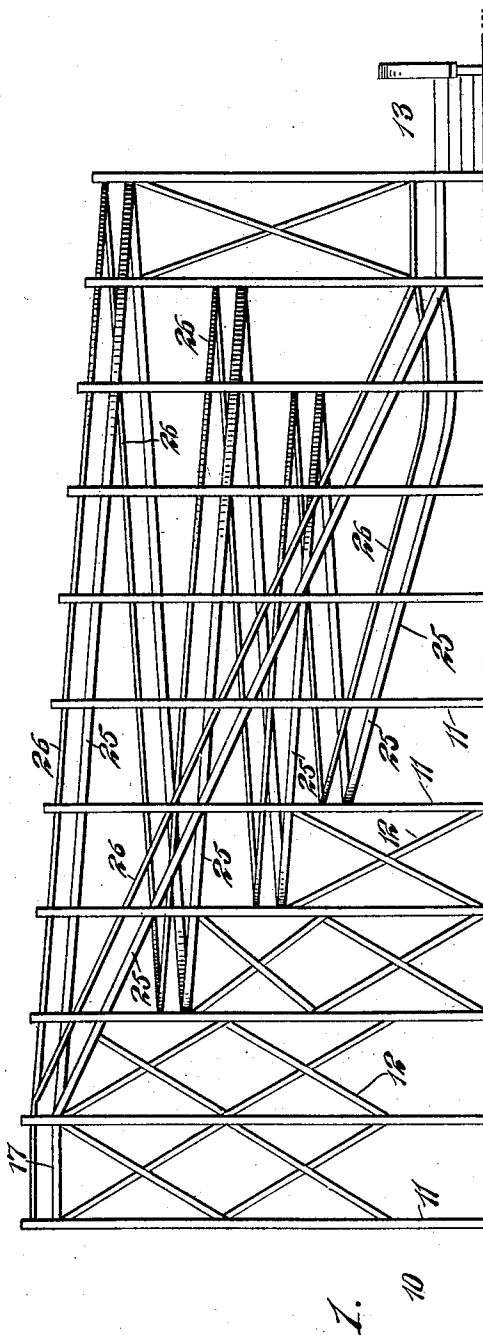


No. 888,881.

PATENTED MAY 26, 1908.

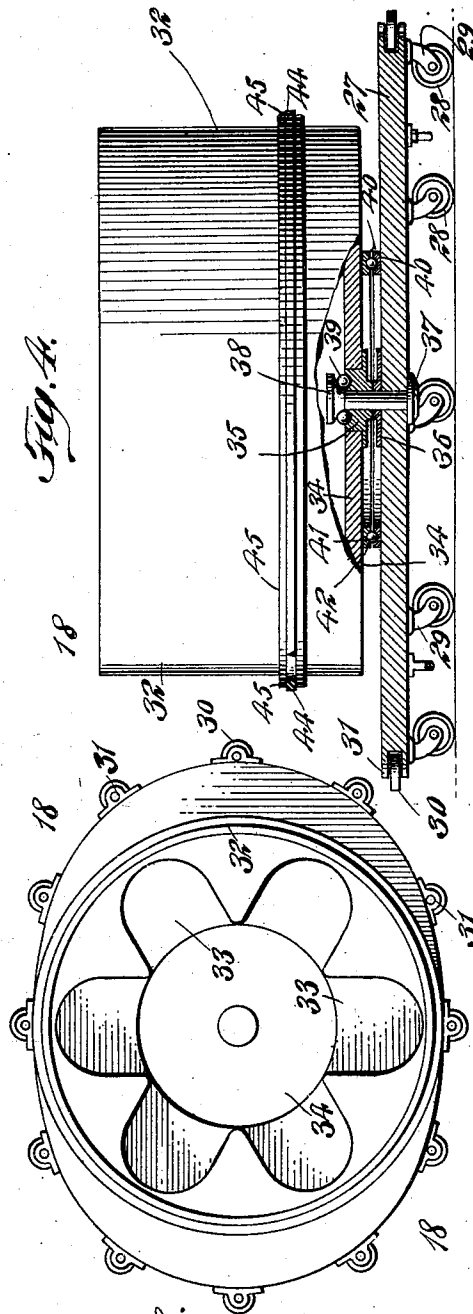
E. G. GEORES.
PLEASURE RAILWAY.
APPLICATION FILED MAR. 12, 1908.

2 SHEETS—SHEET 1.



WITNESSES
Julius K. Smith
H. Lincoln

Fig. 1.



INVENTOR
Erik G. Geores
BY
Criswell & Criswell
ATTORNEYS.

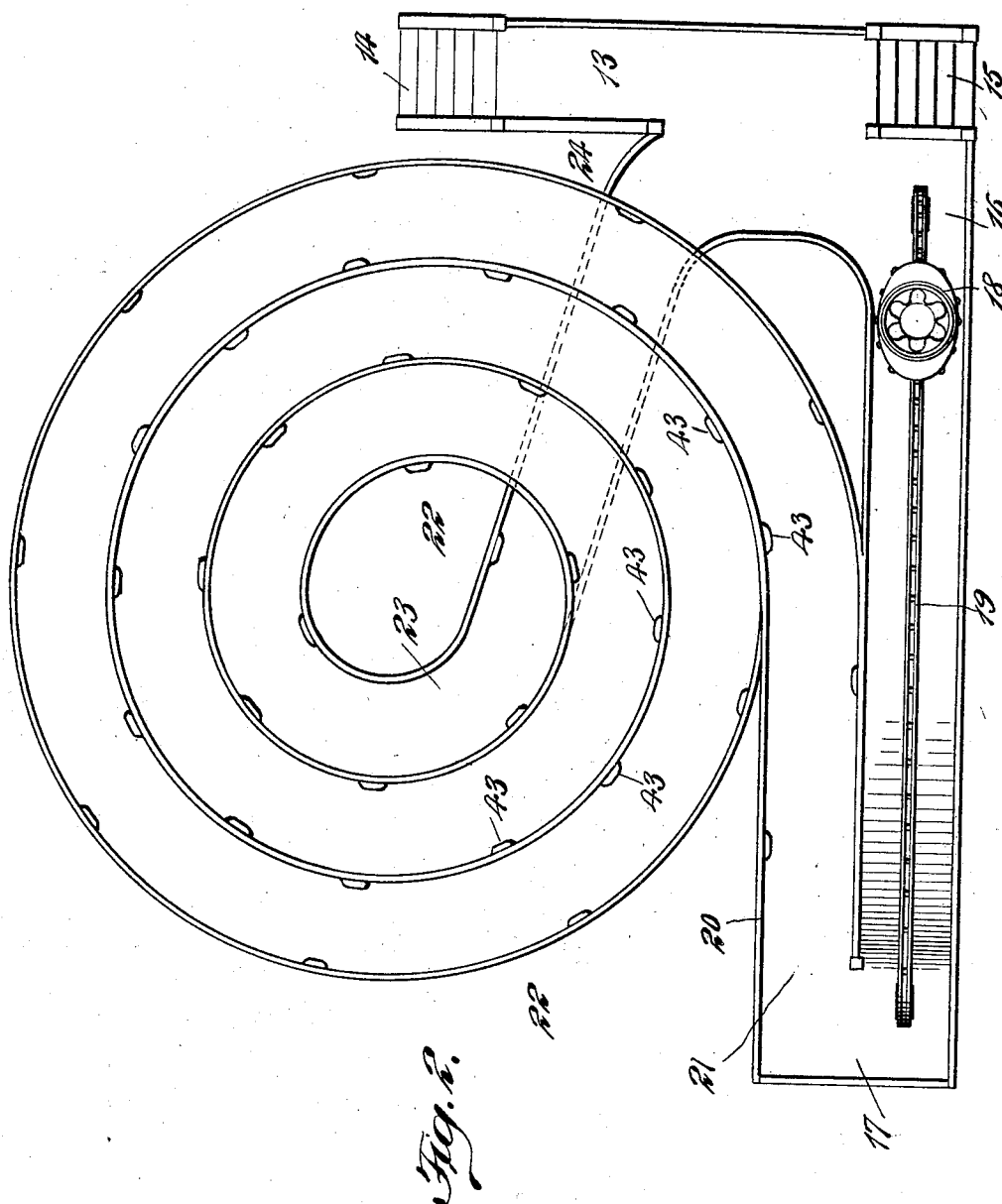
Fig. 2.

No. 888,881.

PATENTED MAY 26, 1908.

E. G. GEORES.
PLEASURE RAILWAY.
APPLICATION FILED MAR. 12, 1908.

2 SHEETS—SHEET 2.



WITNESSES
Julius H. Smith
H. L. Luehman

INVENTOR
Erik G. Geores
BY
Criswell & Criswell
ATTORNEYS

UNITED STATES PATENT OFFICE

ERIK G. GEORES, OF NEW YORK, N. Y.

PLEASURE-RAILWAY.

No. 888,881.

Specification of Letters Patent.

Patented May 26, 1908.

Application filed March 12, 1908. Serial No. 420,645.

To all whom it may concern:

Be it known that I, ERIK G. GEORES, a citizen of the United States, and a resident of New York, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Pleasure-Railways, of which the following is a full, clear, and exact description.

This invention relates more particularly to pleasure railways in which the car travels in a circuitous path by gravity to its starting point.

The primary object of the invention is to provide an effective railway and car or carriage therefor which travels in such a way as to make the trip interesting and exciting, but at the same time perfectly safe, so that the car during the travel thereof will not only move in the direction of the track, but will have a part thereof rotated first in one direction then in another so as to shift or force the passengers first one way and then another as the car advances thereby materially increasing the pleasure and excitement incident to the ride and affording much amusement as the car moves along the track.

A further object of the invention is to provide a track which may be of considerable length and arranged in a compact space, and which is so constructed that the car will move in a spiral path in its travel; and to provide a car which is simple in construction and which is free to move laterally as it travels forward along the track.

With these and other objects in view, the invention will be hereinafter more particularly described with reference to the accompanying drawings, which form a part of this specification, and will then be pointed out in the claims at the end of the description.

In the drawings, Figure 1 is a side elevation of one form of apparatus embodying my invention. Fig. 2 is a plan view of the track with the supporting means removed. Fig. 3 is a plan view of one form of car or carriage for the passengers; and Fig. 4 is a vertical sectional view, partly in elevation, of the car.

The main frame or structure 10 of the apparatus may be made of any suitable form and constructed in any desired manner. As shown a number of uprights or standards 11 are supported on the ground, and these are suitably braced by the beams or tie-bars 12 as is usual in structures of this character, and these standards may be of any desired num-

ber according to the size and nature of the apparatus and the strength required to adapt it for the purpose intended. A platform 13 is arranged convenient to the apparatus, and this platform may be provided with entrance and exit steps 14 and 15 at the ends thereof, and leading from said platform is an inclined part 16 which extends from the platform 13 to the starting point of travel or upper platform 17 along which one or more cars 18 are adapted to travel. Any suitable means may be provided for raising the cars from the platform 13 to the platform or starting point 17, and for this purpose an endless carrier 19 is provided which is adapted to automatically engage each car 18 when placed in its path of movement, and which will automatically release the car when it reaches the platform 17 so that said car may be entirely free to move along a track 20 as is usual in pleasure railways.

The entire track or way 20, including the inclined part 16, has a solid floor or platform 21 for the cars instead of the usual rails, and this track is formed spirally so as to provide a curved portion 22 which has a number of substantially concentric convolutions which terminate at the center of the apparatus. The track is substantially circular and inclines downwardly so that each convolution is beneath the next outer one, and said track terminates at or near the center thereof in an inclined trackway 24 which extends to the platform 13 so that the cars as they are forced from the platform 13 to the platform 17 will pass around the circular track toward the center of the apparatus, and then back again to the starting point or platform 13.

The track 20 has projecting from its floor or base 21 a guard rail 25 on each side thereof, and above the guard rails 25 are guard rails 26 which are arranged parallel to the guard rails 25 and are adapted to serve as guides for the car 18 as will be presently described.

Any suitable form of car may be employed in connection with certain features of the apparatus, but I prefer to employ a car such as shown in Figs. 2 and 4. As shown the car 18 has a truck provided with a platform or base 27 to the lower surface of which are held a series of wheels 28 which are mounted in brackets 29 in substantially the same manner as the ordinary caster, so as to shift their positions according to the movement of the car, and to the edge of the base 27 are ar-

ranged a plurality of pulleys or rolls 30 which
 are journaled in brackets 31 held to the ends
 of said platform, and are adapted to engage
 the guide or guard rails 25 so as to retain the
 5 car on the floor 21 of the track. The base 27
 of the truck is substantially oval or elliptical
 in shape, and rotatably held relatively to the
 base is a car body 32. This car body 32 is
 10 circular and is provided with a plurality of
 radially arranged seats 33 for the passengers,
 and the base or floor 34 of said body is pro-
 vided with a bushing or member 35, which
 is supported above a flange 36 arranged on
 the base 27. A post or shaft 37 is held to the
 15 base 27, and this bolt or post is provided
 with a cap 28 which is adapted to rest upon
 the balls 39, so as to provide a suitable bear-
 ing between the cap 38 and the bushing 35.
 A ring 40 is secured to the base 27, and this
 20 ring is opposed to a ring 41, secured to the
 floor of the car 32, and in each of the rings 40
 and 41 is an annular groove in which anti-
 friction balls 42 may be arranged so that a
 suitable ball-bearing connection is provided
 25 between the car body and the supporting
 base 27. By this means the car 38 may
 have an independent rotary movement rela-
 tively to the base or platform 27, and said
 base 27 by means of its rollers or wheels 28
 30 is free to move forward and laterally on the
 floor of the track 20.

To make the forward movement of the car
 more interesting and amusing, I provide a
 plurality of buffers 43 on the guard rails 26,
 35 and these buffers are arranged to alternate
 first on one side and then on the other, and
 are adapted to engage a rubber or other fric-
 tional engaging surface 44 carried by the car
 body. The frictional surface may be in the
 40 nature of a rubber band or ring suitably held
 in a metallic or other ring 45 carried by the
 car body. As will be seen when the car body
 moves forward the rolls 28 permit the car to
 move from one side to the other and during
 45 this movement the frictional surface 44 will
 engage one of the abutments or buffers 43,
 and will rotate the car in one direction, and
 on further movement of the car it will strike
 another buffer, which may be on the opposite
 50 guard rail, and this will rotate the car body
 in an opposite direction, thus causing the car
 in its forward movement to rotate relatively
 to its base or platform first in one direction
 and then in another and so on throughout a
 55 part or the entire length of the track.

It will be understood that instead of the
 floor 21 of the track 20 being simply circular
 and curved it may be of any desired form and
 of any suitable length, and may also be made
 60 with undulations, so that the car in its for-
 ward travel may not only descend, but at
 suitable points may be made to rise and fall

again as in the usual form of railways of this character.

From the foregoing it will be seen that 65
 simple and efficient means is provided where-
 by a very exciting and amusing ride is afford-
 ed to passengers; that a simple and effective
 car is provided which has its body rotatably
 held to its truck in such a way that during 70
 the forward movement of the truck it will be
 automatically rotated in one direction and
 then in another as it moves along the track,
 and that a compact and effective track or
 way having a plurality of convolutions is 75
 provided for the cars.

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

1. The combination with a track, of guard 80
 rails forming a part of the track on opposite
 sides thereof and provided with buffers along
 the same, a passenger car having a truck por-
 tion adapted to move freely, laterally and
 lengthwise of the track, and a body adapted 85
 to hold passengers rotatably held to the truck
 portion and adapted to engage the buffers
 and to rotate the car body in opposite direc-
 tions as it moves forward.

2. In a pleasure railway, a car comprising 90
 a truck having a base and a plurality of roll-
 ers carried thereby, a post projecting upward
 from the base, a car body rotatably held on
 the post, a ball bearing connection between
 the post and the car, annular opposed rings 95
 supported by the car body and the truck and
 forming a ball bearing connection therebe-
 tween, said car having a plurality of radially
 arranged seats for passengers therein, and an
 annular frictional surface carried by the car 100
 body, and adapted to engage a part of the
 track to rotate said body as the car moves
 along the same.

3. The combination with a track of guard 105
 rails forming a part of the track and opposite
 sides thereof and provided with buffers along
 the same, said track having an inclined part
 extending upward and a spiral portion com-
 prising a plurality of convolutions which ex-
 tend downward and toward the center there- 110
 of in a circular path, a passenger car having a
 truck portion adapted to move freely, later-
 ally and lengthwise of the track and a body
 adapted to hold passengers rotatably held to
 the truck portion and adapted to engage the 115
 buffers and to rotate the car body in opposite
 directions as it moves forward.

This specification signed and witnessed
 this eleventh day of March A. D. 1908.

ERIK G. GEORES.

Witnesses:

M. TURNER,
 H. LINEHAN.