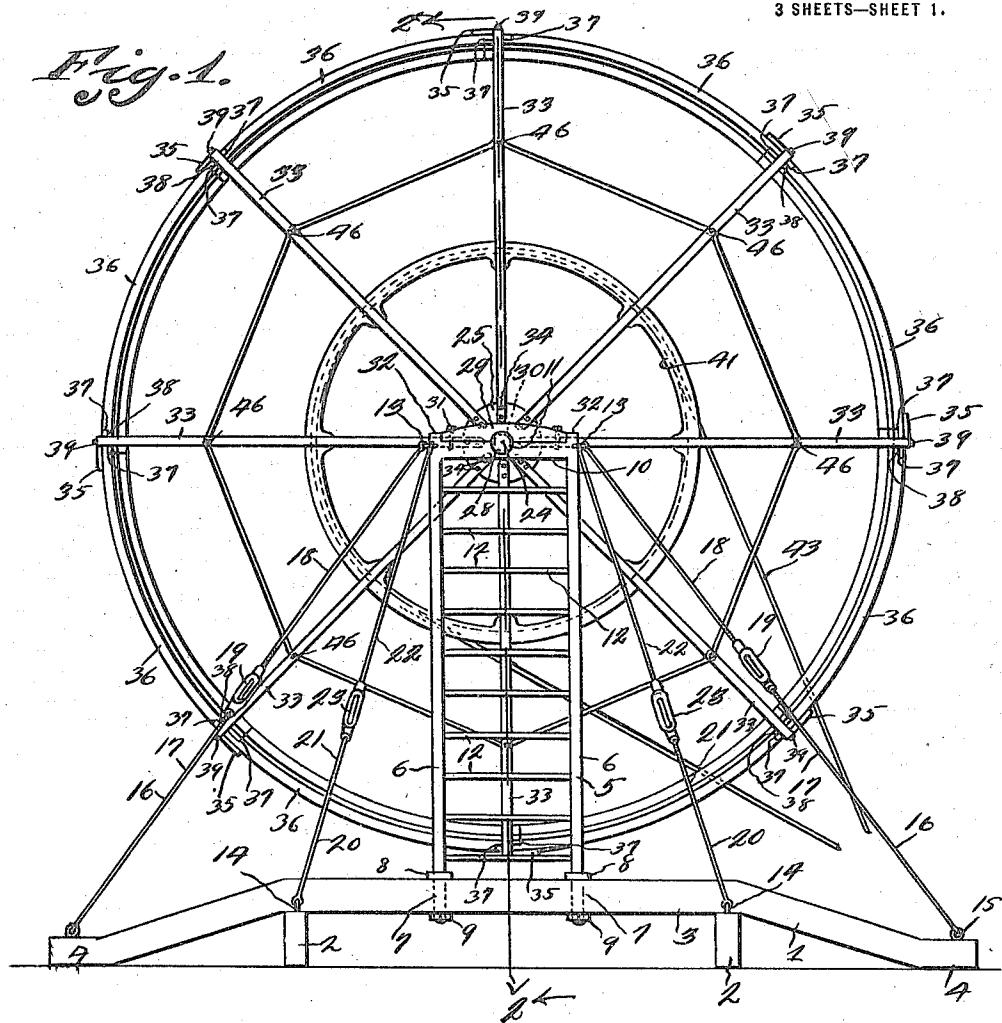


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AMUSEMENT OR PLEASURE WHEEL.
APPLICATION FILED DEC. 5, 1917.

1,264,738.

Patented Apr. 30, 1918.

3 SHEETS—SHEET 1.

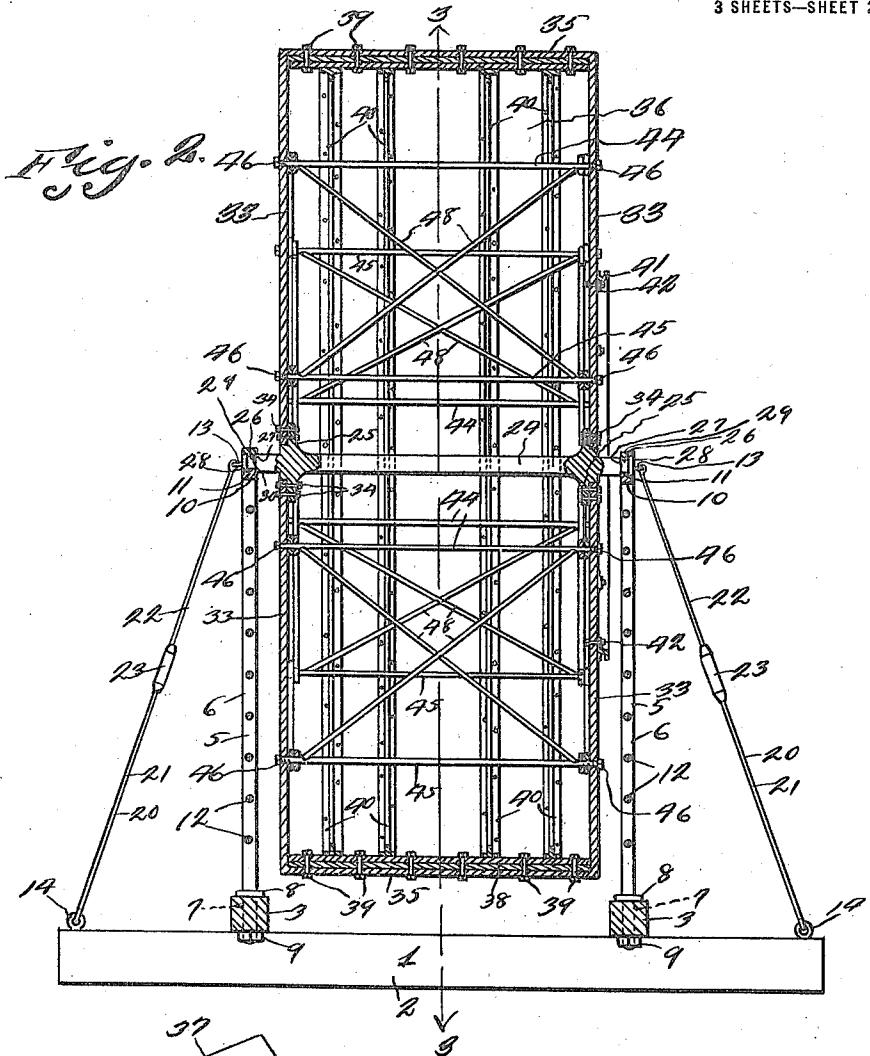


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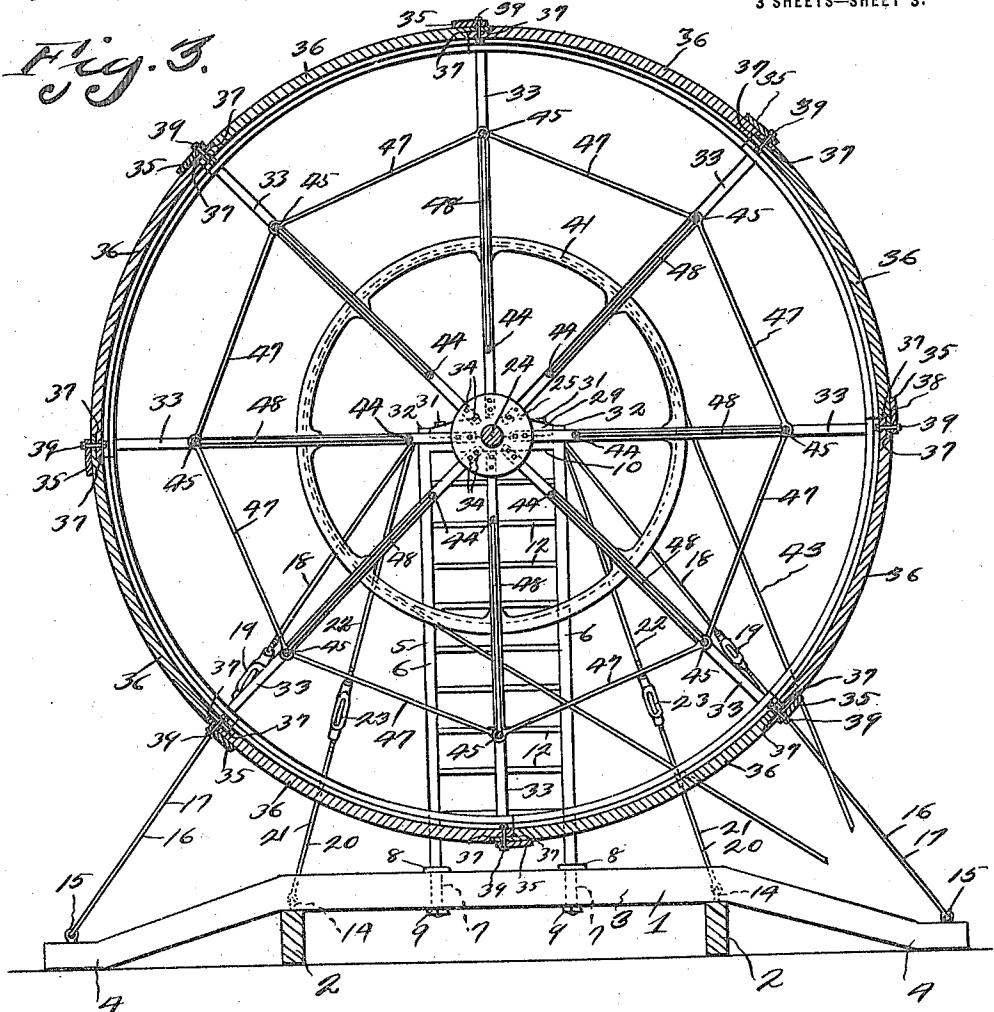
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3 SHEETS—SHEET 3.

Fig. 3.



Inventor
L. N. Woolard

Witnessed
Philip Ferrell
Francis G. Powell

పెట్టు

Swift & C
Attorneys

W&S Attorneys

UNITED STATES PATENT OFFICE.

LINYEAR N. WOOLARD, OF WASHINGTON, NORTH CAROLINA.

AMUSEMENT OR PLEASURE WHEEL.

1,264,738.

Specification of Letters Patent. Patented Apr. 30, 1918.

Application filed December 5, 1917. Serial No. 205,635.

To all whom it may concern:

Be it known that I, LINYEAR N. WOOLARD, a citizen of the United States, residing at Washington, in the county of Beaufort, State 5 of North Carolina, have invented a new and useful Amusement or Pleasure Wheel; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in 10 the art to which it appertains to make and use the same.

This invention relates to an improved amusement and pleasure wheel, and one of the objects of the invention is to provide a 15 wheel of a very large diameter having a track on the inner face of the rim, and adapted to revolve, in order to impart movement to the wheels of a car to be supported on the track.

A further object of the invention is the 20 provision of an improved structure of wheel of this kind consisting of simple, efficient and practical features.

One of the features of construction is the 25 provision of a wheel rim made up of a plurality of segment sections provided with overlapping joints, each section having segment sections of rails, arranged in pairs, whereby when the segment rim sections are joined, two pairs of circular tracks are 30 constructed on the inner surface of the rim.

Another feature of the invention is the 35 provision of a plurality of U-shaped members, to the U portions of which the rim is secured, while the arms of the U-shaped members form the spokes.

A further object of the invention is the 40 provision of improved bracing means for the spokes.

A further object of the invention is the 45 provision of an improved stand or frame work, in bearings of which the revoluble pleasure or amusement wheel is mounted.

A further object of the invention is the 50 provision of improved bracing means for the frame or stand.

A further object of the invention is the 55 provision of an improved revoluble pleasure or amusement wheel, particularly adapted for the amusement and pleasure of patrons 60 at summer resorts and the like.

In practical fields the details of construction may necessitate alterations falling within the scope of what is claimed.

The invention comprises further features and combination of parts as hereinafter set 55 forth, shown in the drawings and claimed.

In the drawings:—

Figure 1 is a view in side elevation of the improved amusement or pleasure wheel and its stand or supporting frame, all being 60 constructed in accordance with the invention.

Fig. 2 is a vertical sectional view on line 2—2 of Fig. 1.

Fig. 3 is a sectional view on line 3—3 of 65 Fig. 2.

Fig. 4 is an enlarged detail view of one 70 of the segment sections of the rim of the wheel, showing the segment sections of the rail.

Referring more especially to the drawings 75 1 designates a base, which comprises the transverse beams or bars 2 and the longitudinally extending beams or bars 3, which are arched, as shown in Figs. 1 and 3, and are 80 extending at right angles to the transverse beams or bars 2, whereby the ends of the beams or bars 3 form the feet 4, in order to brace the base. Rising upwardly from the 85 opposite beams or bars 3 are the U-shaped supports 5, the sides 6 of which pass through openings 7 of the beams or bars 3. The lower portions of the sides 6 have integral collars 8, engaging and resting upon said beams 3, there being nuts 9 threaded on the 90 lower extremities of the sides 6 below the beam 3 to secure the sides 6 firmly. The upper ends of the sides 6 are connected by the cross pieces 10 integrally. The cross pieces 10 have bearings 11 which are semicircular. 95 The sides 6 of the vertical supports 5 are connected by rungs 12, whereby the parts 5 may perform the double functions of supports and ladders. The upper ends of the sides 6 of said supports are provided with eyes 13. 95 Eyes 14 are arranged on the outer ends of the transverse beams or bars 2, and the end portions of the beams or bars 3 have eyes 15. Connecting the eyes 15 and the eyes 13 are 100 brace rods 16, which consist of sections 17

and 18, which are connected by turn buckles 19, whereby the brace rods may be tightened. Connecting the eyes 14 and the eyes 13 are brace rods 20, each of which consist of the sections 21 and 22, which are joined by the turn buckle 23. The brace rods 20 by means of the turn buckles 23 may also be tightened, in order to insure sufficient rigidity, in reinforcing the vertical supports 5 with relation 10 to the base. A suitable shaft or axle 24 for the revoluble pleasure or amusement wheel is provided. This shaft or axle 24 is supplied with circular flanges 25, and the extremities of the shaft or axle terminate in reduced extensions 26, and the adjoining shoulders 27 and the integral collars 28, which are on the extremities of said reduced extensions. The bearings 11 of the cross pieces 10 are constructed correspondingly 15 with and receive the extensions 26 and their collars 28, whereby the shoulders 27 engage the adjacent faces of the cross pieces 10. Cap bars or plates 29 correspond with and engage the cross pieces 10. These cap bars 20 with and receive the extensions 26 and their collars 28, whereby the shoulders 27 engage the adjacent faces of the cross pieces 10. Cap bars or plates 29 correspond with and engage the cross pieces 10. These cap bars 25 or plates 29 have bearings 30 similar to the bearings 11, to correspond with and engage said extensions 26 and their collars 28, thereby preventing axial movement of the shaft or axle. These cap bars or plates 29 30 are secured by the bolts 31 to the cross pieces 10. The cap plates or bars 29 are arranged between the extensions 32 of the sides 6, thereby insuring additional security for said cap bars. The pleasure or amusement wheel 35 proper comprises a plurality of radially disposed U-shaped members, the inner extremities of the arms 33 of which are secured by the bolts and nuts 34 to the circular flanges 25 of the axle or shaft. The outer transverse 40 portions 35 of said U-shaped members are broad and constitute firm bearings for the plurality of rim sections 36. The opposite ends of the rim sections 36 are provided with inner and outer cutaway portions 37, so that 45 each end of a section may overlap the adjacent end of an adjoining section, as shown at 38 in Figs. 1 and 3. Bolts 39 pass through the overlapping parts of the rim sections, and the broad bearings 35 of said radial U-shaped members, thereby insuring a rigid 50 wheel rim for an amusement or pleasure wheel. The rim sections are provided on their inner faces with rail sections 40, and when the rim sections are connected by 55 means of their overlapping joints, two pairs of circular tracks are provided on the inner face or periphery of said wheel rim. A suitable wheel supported car (not shown) is designed to be mounted upon each pair of 60 tracks, whereby the seats thereof may either face in the same direction or the opposite direction. When the cars are arranged with the seats facing in the same direction, and

motion is imparted to the pleasure wheel, the occupants of the cars may experience the impression that they are racing. When the seats are facing in the opposite direction, the occupants may have the impression that they are passing one another. As the momentum of the pleasure wheel increases, the cars 65 alternate in their rearward and forward movements. In other words each car tends to move forward and will then slide rearwardly. This movement is due to the uneven revoluble movement of the amusement 70 or pleasure wheel. A grooved rim 41 is secured by bolts 42 to one set of arms 33 of the radial U-shaped members on one side of the pleasure wheel, so as to be engaged by a suitable rope or cable 43, which may be driven 75 by any suitable power (not shown). The opposite arms of the radial U-shaped members are braced by the transverse rods 44 and 45, the opposite ends of which have nuts 46 threaded thereon. The ends of the brace 80 rods 44 are connected by the brace rods 47, which extend in the direction with the rim of the wheel. Diagonally arranged intersecting brace rods 48 connect the corresponding opposite ends of the brace rods 44 and 45 integrally, thereby insuring rigidity for 85 the revoluble pleasure or amusement wheel. 90

The invention having been set forth what is claimed as new and useful is:—

1. In a revoluble pleasure or amusement 95 wheel a stand, comprising a base, upright ladder supports, a shaft mounted in bearings of said supports and provided with circular flanges, radial U-shaped members having the inner ends of their arms secured to 100 said flanges, a wheel rim consisting of a plurality of rim sections having overlap joints and connecting the transverse parts of the U-shaped members, and pairs of annular tracks carried on the inner periphery of 105 the rim.

2. In a device as set forth, an amusement or pleasure wheel, comprising an axle having circular flanges near its opposite ends, a plurality of radial U-shaped members having the inner ends of their arms secured to 110 said flanges, a wheel rim comprising a plurality of rim sections, the adjacent ends of the rim sections having over-lap joints, means connecting the transverse parts of the 115 U-shaped members with the rim of the wheel at said overlap joints, a pair of transverse rods connecting each pair of opposite arms of the U-shaped members, diagonal brace rods connecting said first rods, additional rods extending in the directions of the rim and connecting one set of the first rods, and two pairs of tracks carried by the inner periphery of the rim.

3. A supporting frame for an amusement 125 wheel comprising a base having longitudi-

nally extending beams, upright ladder supports rising upwardly from said beams opposite each other, each support consisting of 5 U-shaped uprights, the upper cross piece of each having a bearing, an axle mounted in bearings of said cross pieces, cap bars bolted to the cross pieces and having bearings to be engaged by the shaft, said shaft having reduced extension ends and integral collars 10 corresponding with and engaging said bear-

ings to prevent axial movement of the shaft, bracing means for the support, and a pleasure wheel carried by the shaft.

In testimony whereof I have signed my name to this specification in the presence of 15 two subscribing witnesses.

LINYEAR N. WOOLARD.

Witnesses:

F. B. ALLIGOOD,
D. R. TRIPP.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."