

W. J. DAMMLING.

ROUNDABOUT.

APPLICATION FILED JAN. 18, 1911

994,444.

Patented June 6, 1911.

2 SHEETS—SHEET 1.

Fig. 1.

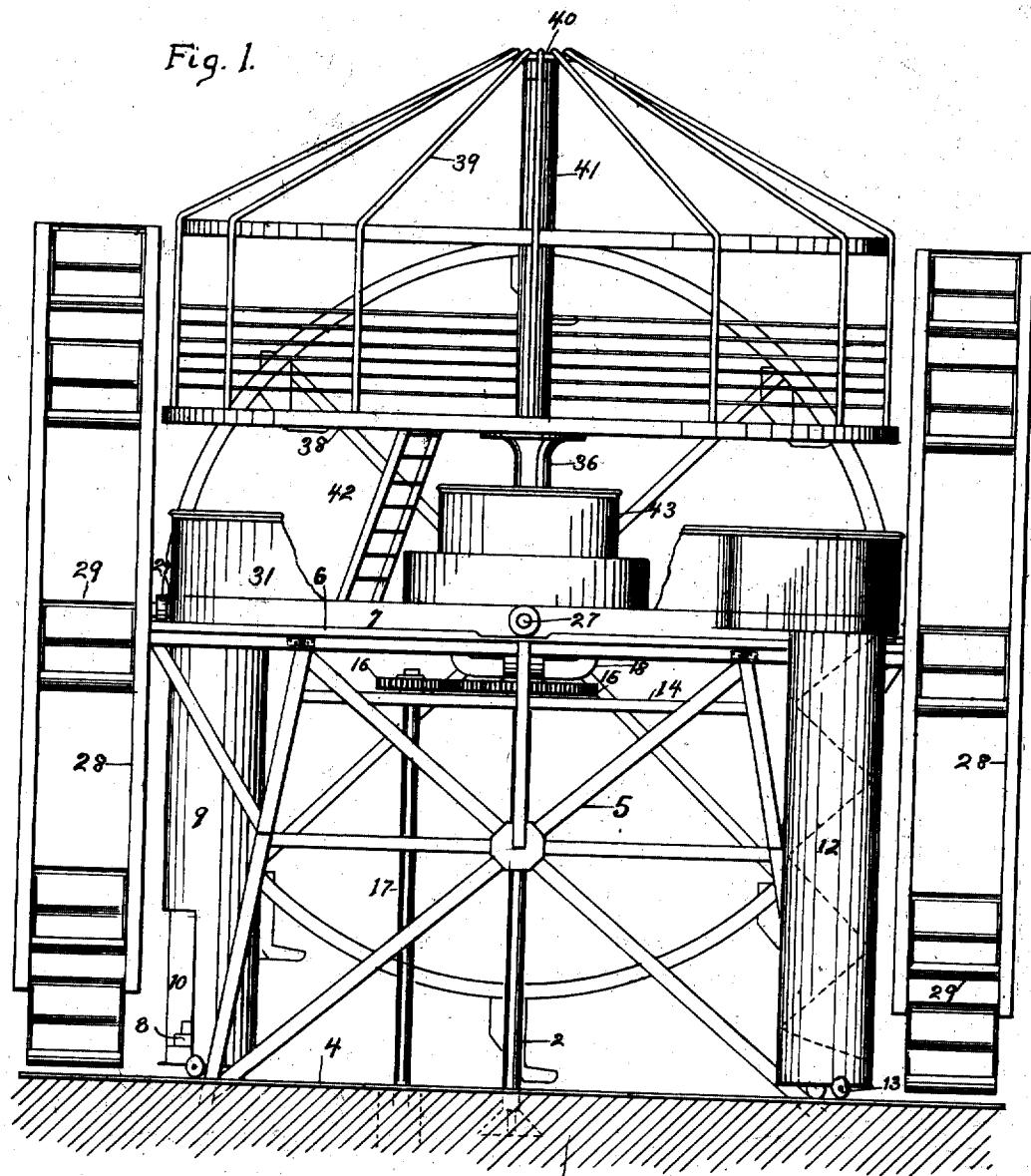
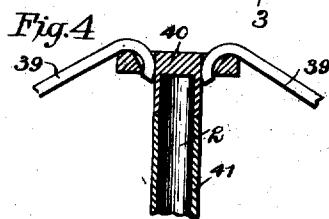


Fig. 4



Mr. Nichols
C. L. Nichols

Supervisor
William J. Hammill
Byersmore & Co.
Adeline Cleary
Atty.

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2 SHEETS-SHEET 2.

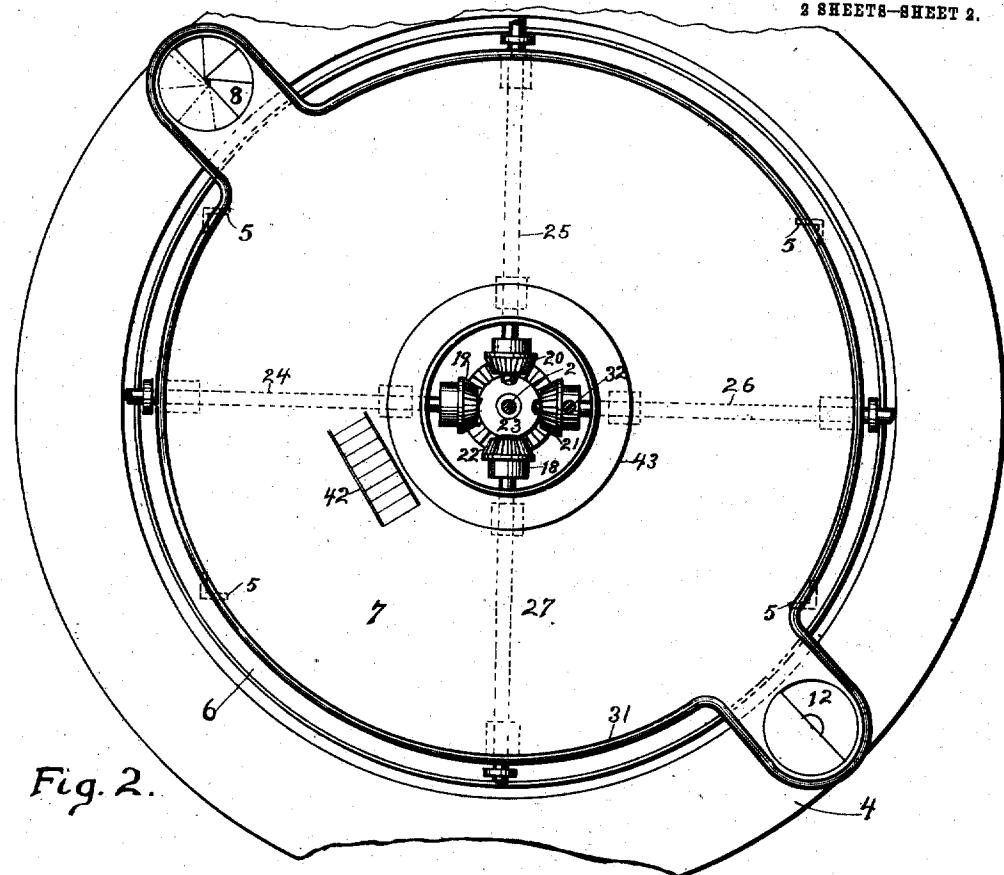


Fig. 2.

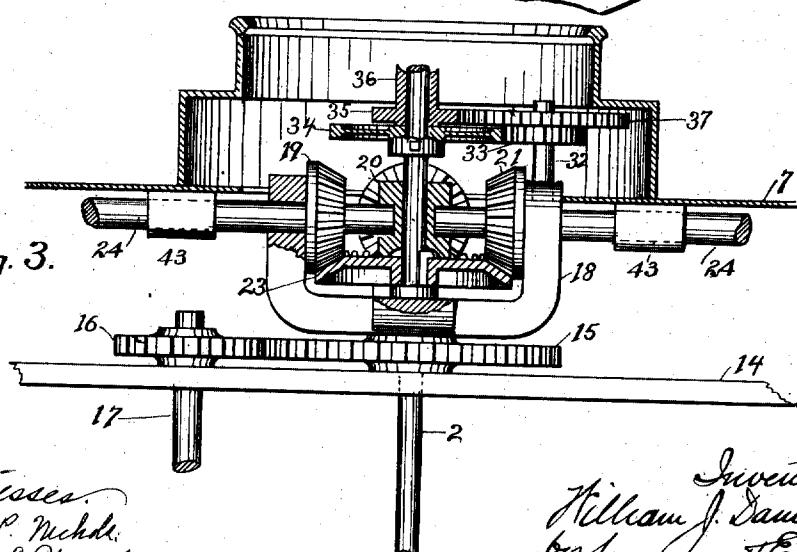


Fig. 3.

Witnesses.
M. P. Nichols
C. L. Reed

Inventor
William J. Dammling
by Raymond E. Clark
Frederic Clark
Atty

UNITED STATES PATENT OFFICE.

WILLIAM J. DAMMLING, OF WEST HAVEN, CONNECTICUT.

ROUNDABOUT.

994,444.

Specification of Letters Patent.

Patented June 6, 1911.

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To all whom it may concern:

Be it known that I, WILLIAM J. DAMMLING, a citizen of the United States, residing at West Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Roundabouts; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters 5 of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a side view partially in section 15 of an amusement device constructed in accordance with my invention. Fig. 2 a plan view of the first revolving platform with the mechanism for driving the second platform removed, and the inner ends of the shafts 20 and bearing block therefor broken away. Fig. 3 a sectional view on an enlarged scale 25 of the driving mechanism. Fig. 4 a sectional view illustrating the manner of suspending the upper platform to the post.

25 This invention relates to an improvement in amusement devices of the roundabout type, and particularly to that class in which one set of carriers is caused to revolve on a horizontal axis and another set to revolve 30 on a vertical axis the object of the invention being to provide a combination of devices in a simple and convenient manner and which will be sufficiently strong to stand the necessary strain; and the invention consists 35 in the construction and combination of parts as will be hereinafter described and particularly recited in the claims.

In carrying out my invention I employ a 40 central post 2 firmly embedded in a suitable foundation 3 and so as to be held against rotation, and above the foundation is a circular platform 4. Surrounding the post and supporting the same is a frame 5 formed from angle irons suitably staid. This 45 framework supports a circular track 6, and turning on this track is a first revolving platform 7. Access to this platform is had through a spiral staircase 8 inclosed in a housing 9 having an entrance opening 10. 50 This housing is supported on the platform 4 and is provided with wheels 11 to run on the platform 4. Opposite the staircase 9 is a slide or chute 12 preferably made of glass and supported by suitable wheels 13 to roll 55 on the platform 4. Loosely mounted on the post 2 and supported by the transverse bar

14 of the frame, is a gear-wheel 15, and meshing with this gear 15 is a gear 16 fixed to the power shaft 17 by which it may be turned from any convenient point. Above 60 the gear 15 and carried by it is a four-armed yoke 18 carrying bevel gears 19, 20, 21 and 22 which mesh with a horizontal bevel gear 23 keyed to the post 2. The bevel gears 19, 20, 21 and 22 are fixed to 65 radial shafts 24, 25, 26 and 27 each of which carries a so called Ferris wheel 28, these wheels having passenger seats 29 in the usual manner of wheels of the Ferris type; and the radial shafts are supported by rollers 30 which ride on the first circular track 70 6. The first revolving platform 7 is connected by sleeves 43 with the radial arms and consequently as the arms rotate the platform will be rotated with them. This 75 platform is inclosed by a circular wall or railing 31 within which is a bicycle track or space for other devices.

Projecting upward from one of the arms 80 of the yoke 18 is a stud 32 carrying a small pinion 33 which meshes with a gear 34 fixed to the post 2, and above the gear 34 is a pinion 35 fixed to a sleeve 36 free to turn on the post 2, the pinion 35 meshing with a pinion 37 which is also loose on the stud 32, 85 the pinions 33 and 37 being coupled together and so that as the yoke revolves the sleeve 36 will be turned accordingly but in the direction opposite to that in which the yoke is turned. This sleeve 36 supports the 90 second revolving platform 38 which, as will be seen, turns in a direction opposite to that of the first revolving platform 7, and this platform receives its main support through rods 39 fixed to a head 40 which 95 rests upon a tubular bearing-sleeve 41 sitting over the upper end of the post. On the platform 38 seats of any desired style 100 will be placed, and access to the second revolving platform is had from the first revolving platform by means of removable steps 42. The yoke 18 and gearing connected therewith, will be inclosed in suitable casing 43. Passengers will be admitted to the Ferris wheels from the platform 4, and passengers for the upper platform will enter by the spiral staircase 8, and to the second revolving platform by the 105 steps 42. When loaded power being applied through the shaft 17 will turn the 110 several Ferris wheels and rotate the platform 7 in one direction and the platform 38

in the opposite direction and at the desired speed, the steps 42 being removed when the mechanism is started in motion; and when the mechanism stops passengers from the 5 two platforms may be discharged by the staircase or through the chute 12.

I claim:—

1. An amusement device comprising a fixed central post, a framework surrounding the same, a bevel gear fixed to the post, a four-armed yoke free to turn on the post, radial shafts carried by said yoke and each shaft having a beveled gear meshing with the fixed gear on the post, means for revolving said yoke, passenger-carrying wheels fixed to the outer ends of each of said shafts, a first revolving platform connected with said shafts and adapted to be turned therewith, a second revolving platform supported from the top of the post above the first revolving platform, a sleeve connected with the underside of said second revolving platform the lower end of the sleeve having a gear meshing with a gear carried by said yoke, and a gear fixed to the post below the said sleeve and meshing with a gear carried by the yoke whereby the second platform is caused to rotate in a direction opposite to the direction of rotation of the first 10 revolving platform.
- 20 2. An amusement device comprising a fixed central post, a framework surrounding the same, a bevel gear fixed to the post, a four-armed yoke free to turn on the post, a second revolving platform suspended from the top of the post above the first revolving platform, and means for rotating the same in a direction reverse to that of the first platform.
- 25 3. An amusement device comprising a fixed central post, a framework surrounding the same, a bevel gear fixed to the post, a four-armed yoke free to turn on the post,

radial shafts carried by said yoke and each shaft having a beveled gear meshing with the fixed gear on the post, means for revolving said yoke, passenger-carrying wheels fixed to the outer ends of each of said shafts, a first revolving platform connected with said shafts and adapted to be turned therewith, a second revolving platform supported from the top of the post above the first revolving platform, a sleeve connected with the underside of said second revolving platform the lower end of the sleeve having a gear meshing with a gear carried by said yoke, and a gear fixed to the post below the said sleeve and meshing with a gear carried by the yoke whereby the second platform is caused to rotate in a direction opposite to the direction of rotation of the first 30 35 40 45 revolving platform.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

WILLIAM J. DAMMLING.

Witnesses:

HERMANN BUSSMANN, Jr.,
H. BUSSMANN.

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