

Sept. 7, 1926.

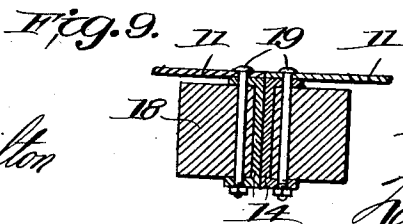
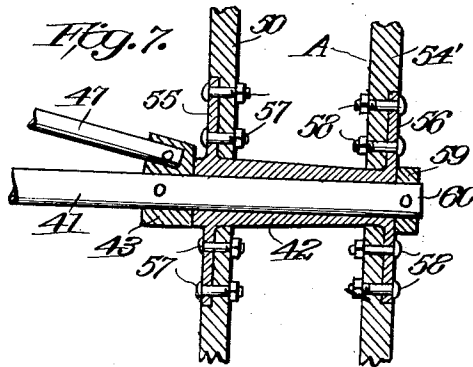
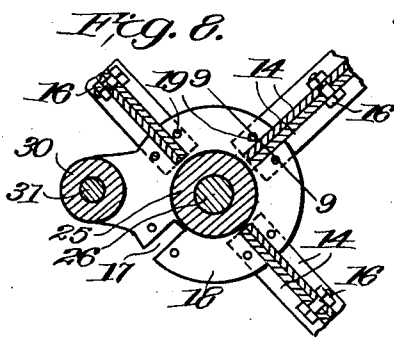
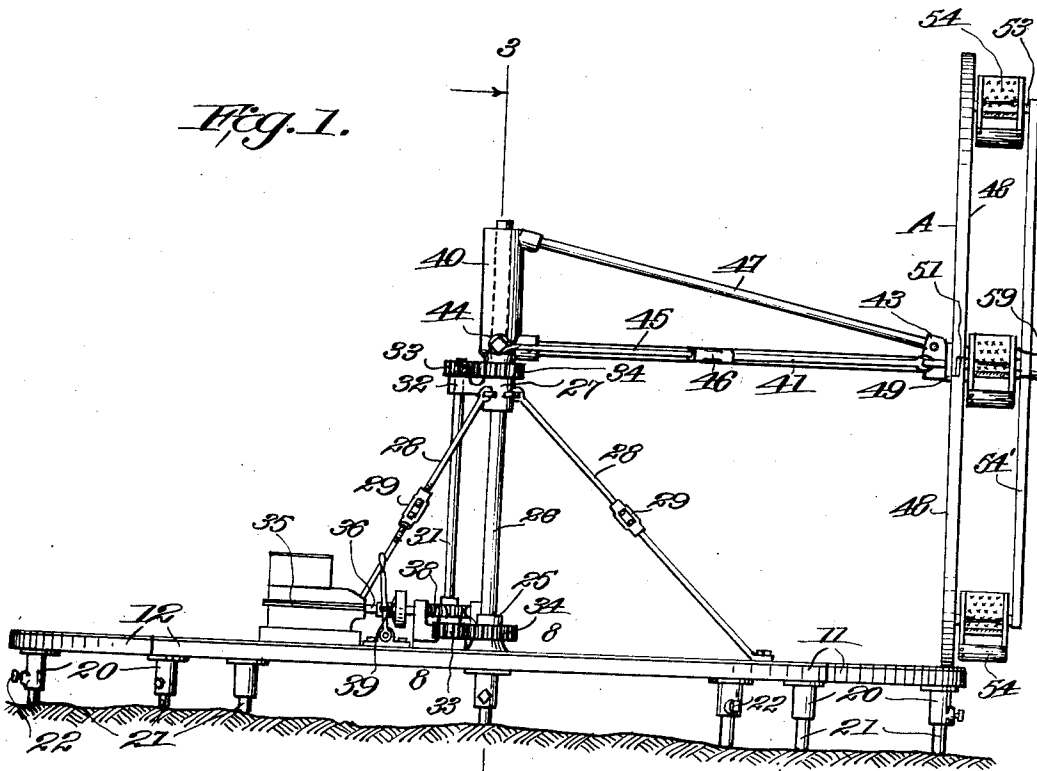
B. M. BURRIS

1,599,075

AMUSEMENT WHEEL

Filed Nov. 16, 1922

3 Sheets-Sheet 1



WITNESS:

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Sept. 7, 1926.

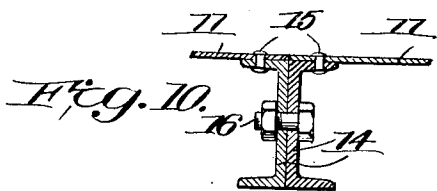
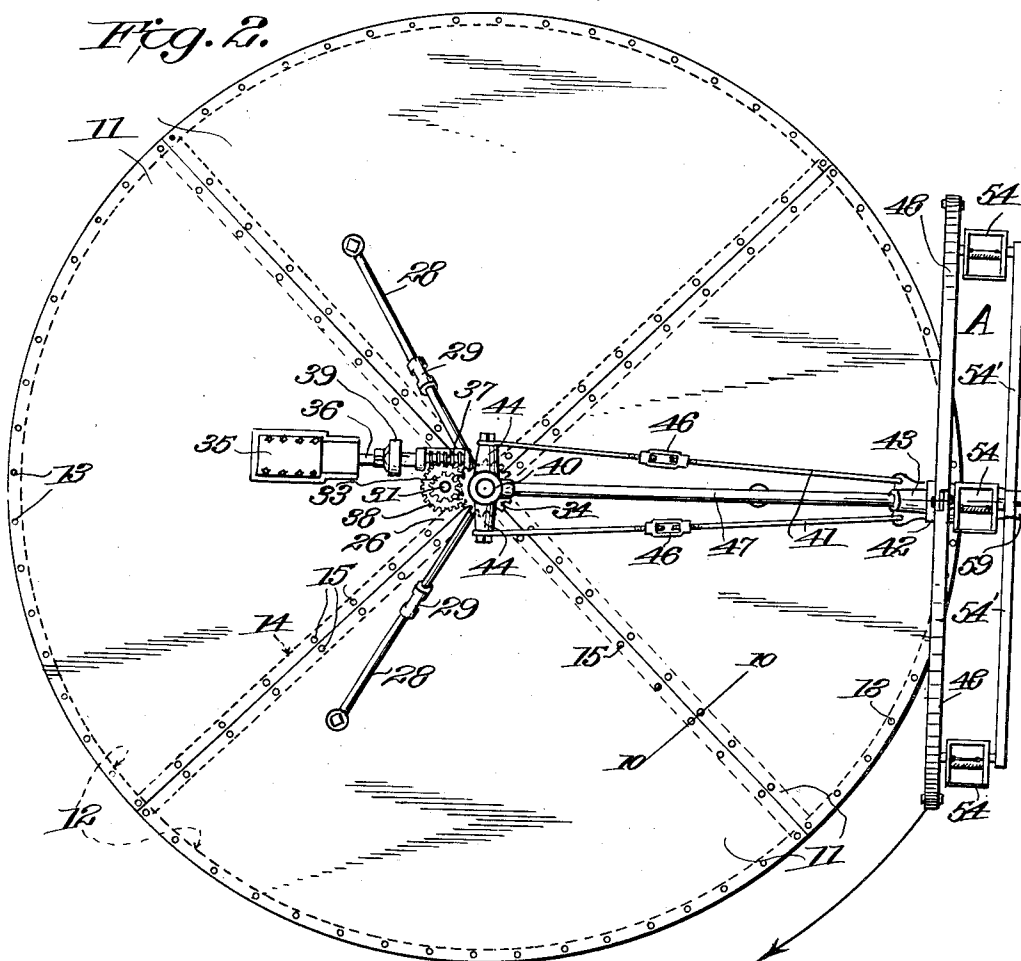
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1,599,075

AMUSEMENT WHEEL

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3 Sheets-Sheet 2



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1,599,075

B. M. BURRIS

AMUSEMENT WHEEL

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3 Sheets-Sheet 3

Fig. 3.

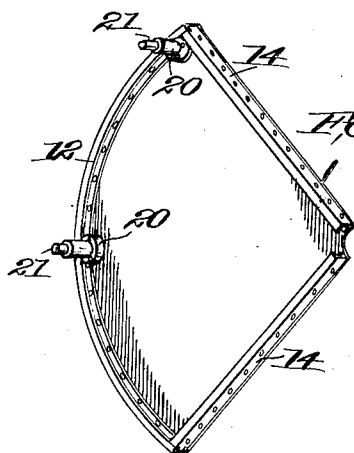
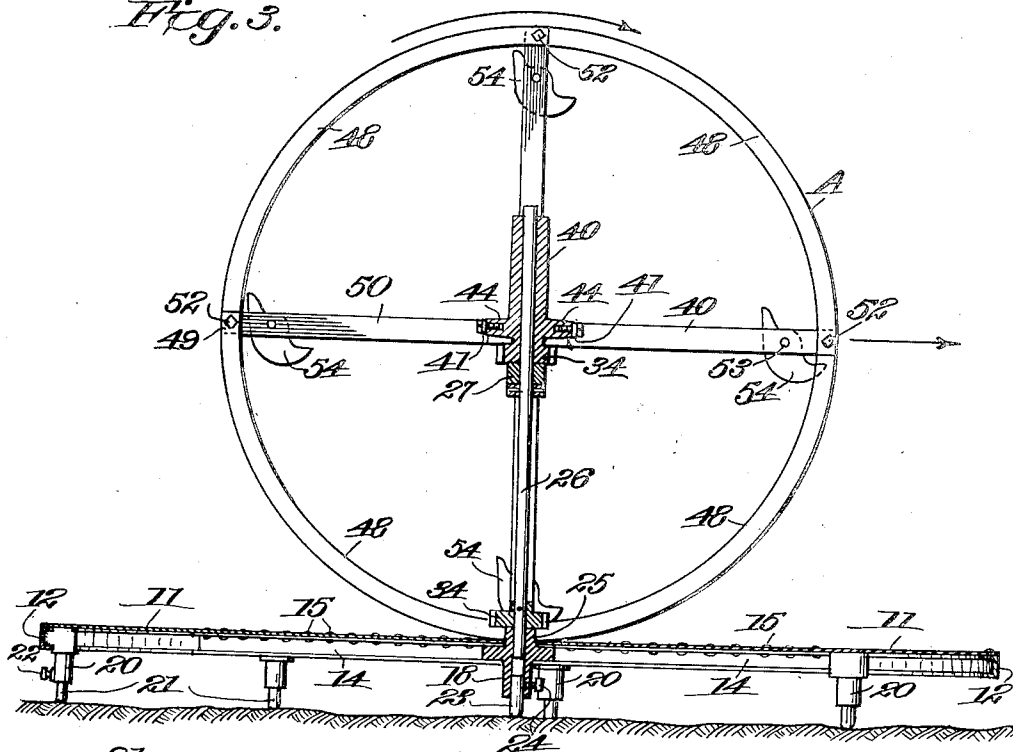


Fig. 5.

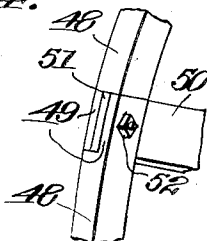
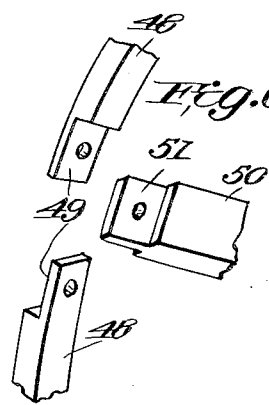


Fig. 6.



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UNITED STATES PATENT OFFICE.

BARKLEY M. BURRIS, OF CORSICANA, TEXAS.

AMUSEMENT WHEEL.

Application filed November 16, 1922. Serial No. 601,236.

My invention relates to an amusement apparatus.

The principal object is to provide in such an apparatus having a wheel of the Ferris type, that is one revoluble on a horizontal axis, means to also rotate or revolve the wheel about a vertical axis.

Another object is to provide a track for the said wheel to support the same and to enable a single annular frame to be used in the frame work of the wheel.

I also aim to provide the generally improved construction set forth in the accompanying drawings and hereinafter particularly described.

In said drawings;—

Fig. 1 is an elevation,

Fig. 2 is a plan view,

Fig. 3 is a vertical section on the line 3—3 of Fig. 1,

Fig. 4 is a perspective view of one of the platforms.

Figs. 5 and 6 are fragmentary perspective views showing the connection of the wheel spokes to the rim,

Fig. 7 is a sectional view showing the mounting of the wheel,

Fig. 8 is a sectional view, taken substantially on the line 8—8 of Fig. 1,

Fig. 9 is a cross-sectional view taken on the line 9—9 of Fig. 8, and

Fig. 10 is a cross sectional view taken on the line 10—10 of Fig. 2.

Referring specifically to the drawings, wherein like characters designate like or similar parts, I first provide a suitable base or platform. This platform may be round and provided in a number of detachable plate sections or segments 11. The edges of the said sections are reinforced by curved U beams 12 bolted or riveted thereto at 13 and by the straight U beams 14 bolted or riveted thereto at 15. The adjacent U beams 14 of the different sections abut and are bolted or otherwise removably secured together, as at 16. U beams 14 at their webs enter slots 17 in a hub 18 and removable bolts 19 pass through the flanges of these beams, plates 11 and said hub 18. Beneath the platform and secured thereto at suitable locations and in any preferred manner are sleeves or sockets 20 which adjustably mount anchor and levelling pins 21 secured therein

by set screws 22. Hub 18 adjustably mounts another levelling and anchoring pin, as at 25, secured by screw 24.

Hub 18 is provided with a bearing 25 in which a vertical shaft 26 is journaled. A floating bearing 27 is also provided for shaft 26, being mounted by rods or struts 28, which are sectional and the sections of which are adjustable relatively by means of turnbuckles 29. Hub 18 also has a bearing 30 and therein a vertical shaft 31 is cast integral with the bearing 27. Gear wheels 33 are keyed to shaft 31 and mesh with gear wheels 34 rigid with shaft 26.

Power may be applied to shaft 31 in any suitable manner, as from an engine 35 on the platform. The main shaft 36 of said engine may have a worm 37 thereon to drive the worm wheel 38 on shaft 31. A suitable clutch mechanism is provided at 39 to control the engagement of said worm and worm wheel.

Above uppermost gear wheel 34 and rigid with shaft 26 is a hub 40 from which a shaft or axle 41 extends horizontally to mount or journal the hub 42 of a wheel of the Ferris type at A. A head 43 is secured to the axle 41 and to the same and to the arms 44 of hub 40 brace rods 45 are secured, being made in sections adjustably secured together by turnbuckles 46. Midway of braces 45 and above the same, a brace rod or strut 47 is secured to said head 43 and hub 40.

A wheel A preferably has a number of rim sections, 48, having extensions 49 and spokes 50 with tenons 51.

Bolts 52 pass through the extensions 49 and tenons 51 to form a rigid construction and the wheel rests and travels on the platform.

Pivot rods 53 journal passenger carriages 54 of suitable construction in spokes 50. Rods 53 are journaled in outer spokes 54', a rim for these spokes being unnecessary. Spokes 50 and 54' are bolted to the flanges 55 and 56 of hub 42 as at 57 and 58. A collar 59 keyed at 60 to axle 41, prevents displacement of the wheel from the axle.

In use, after the passengers have entered the carriages 54, power from engine 35 is applied through shaft 36 and worms 37 and 38 with clutch 39 "in," to shaft 31 through gears 33 and 34 turns shaft 26, moving with

it arm 41 and accordingly wheel A, causing the wheel to rotate about the axis of shaft 26. In addition, due to the traction of rim 48 on the plates 11 or platform, the wheel also revolves from shaft 41. Thus the wheel travels on axis at right angles to each other, producing a pleasant effect.

Various changes in the details may be resorted to within the spirit and scope of the invention and as defined by the appended claims.

I claim:—

1. In amusement apparatus, a hub provided with slots marginally open at the periphery of the hub and with a bearing, a platform, U beams supporting said platform and their webs terminally disposed in said slots and the adjacent portions of their flanges on opposite sides of the hub, a shaft journaled in said bearing, a float bearing for said shaft located above said hub and supported from the platform, means to drive

said shaft, and an amusement wheel driven from said shaft.

2. In amusement apparatus, a platform, a hub on said platform provided with a bearing, U-beams supporting said platform, said hub having radial slots open at its periphery, said beams at their webs terminally disposed in said slots and having their flanges on opposite sides of the hub, an upstanding shaft journaled in said bearing, a floating bearing above said hub and supported from the platform, each of said bearings having offset bearing members, a second shaft, said second shaft being journaled in said bearing members, driving connections between said shafts adjacent each bearing member, means to drive the second mentioned shaft and an amusement wheel driven from the first mentioned shaft.

In testimony whereof I affix my signature.

BARKLEY M. BURRIS.