Sept. 9, 1941. C. LOROW 2,255,175

AMUSEMENT DEVICE

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Fig. 1.

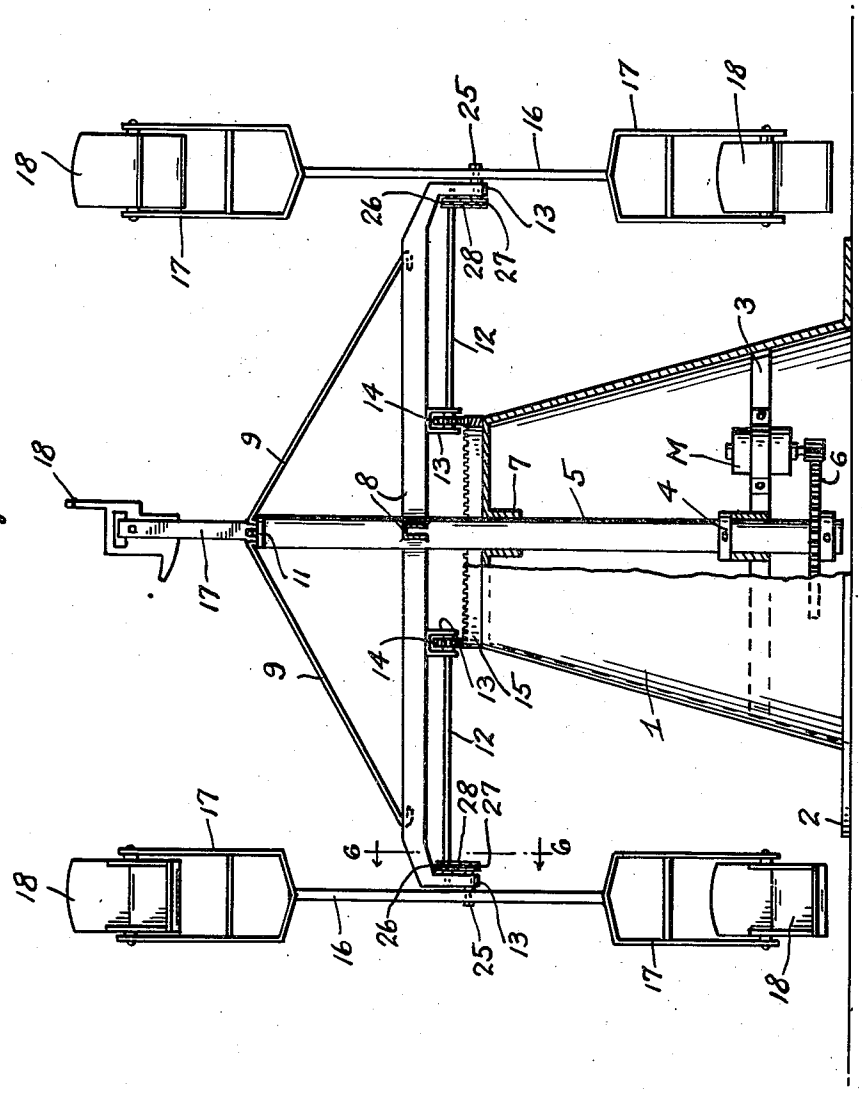

Fig. 5.

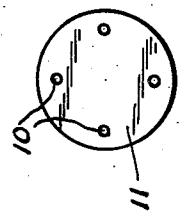

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Fig. 4.

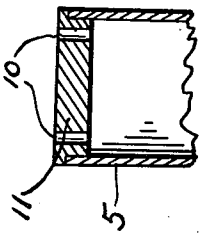
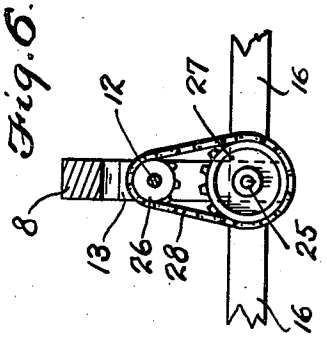


Fig. 6.



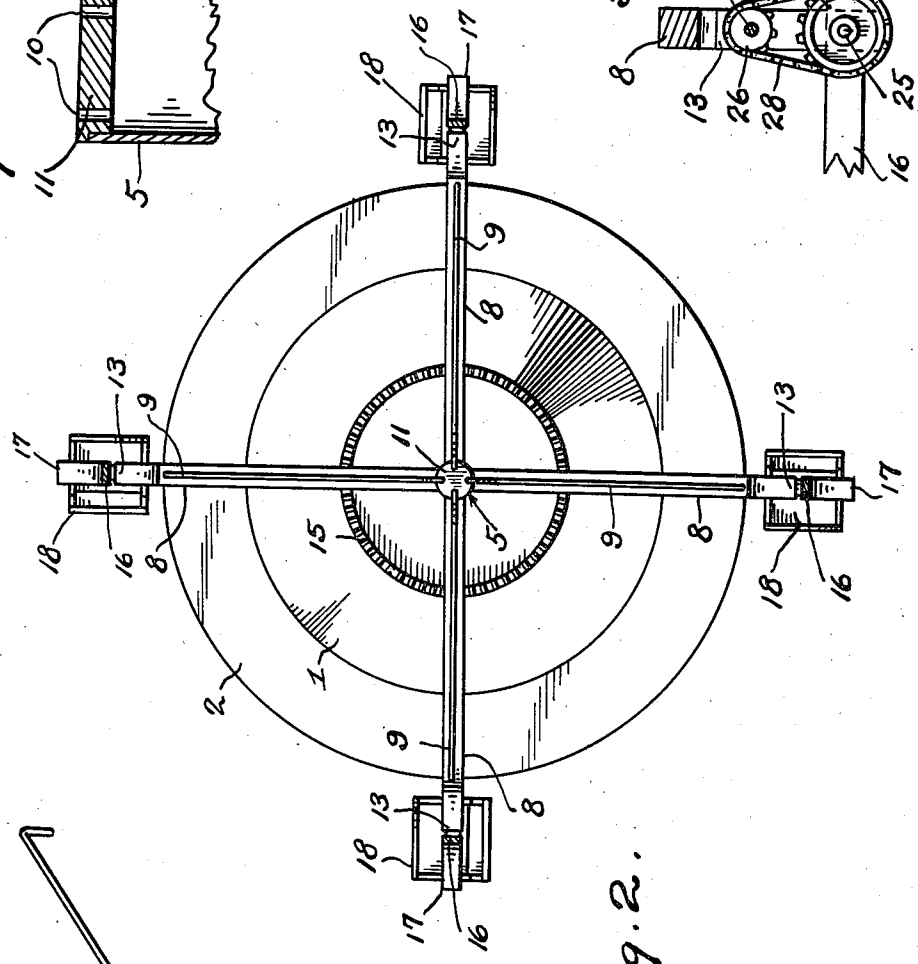
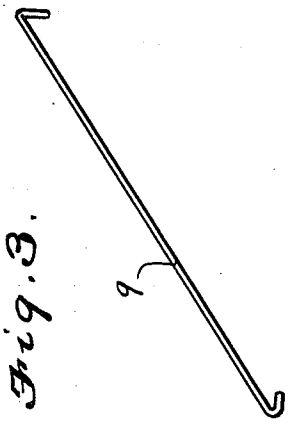


Fig. 2.

Fig. 3.



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Patented Sept. 9, 1941 2,255,175

UNITED STATES PATENT OFFICE

2,255,175

AMUSEMENT DEVICE

Cortez Lorow, Tampa, Fla.

Application December 22, 1939, Serial No. 310,658

1 Claim. (Cl. 272—36)

This invention relates to an amusement device of the type known as a "merry-go-round," the general object of the invention being to provide means for causing the occupants to travel about a vertical circular path at the same time they are travelling about a horizontal circular path.

The invention also consists in certain other features of construction, combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing the invention in detail reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:

Fig. 1 is an elevational view with parts in section.

Fig. 2 is a top plan vie wof the device.

Fig. 3 is a view of one of the brace bars.

Fig. 4 is a detail sectional view through the top of the post.

Fig. 5 is a view of the plug which is placed in the top of the post.

Fig. 6 is a detail sectional view approximately on line 6—6 of Fig. 1 showing the arm in horizontal position.

In these drawings the numeral 1 indicates a supporting casing having a base 2 for resting on a supporting surface. A supporting structure 3 is located in the casing and carries a motor M and a bearing 4 which is centrally arranged in the casing. A vertically arranged shaft or post 5 passes through the casing and through the bearing 4 and is driven from the motor by means of the gearing 6. The shaft also passes through a bearing 7 at the top of the casing. Arms 8 radiate from the upper part of the shaft 5 and brace bars 9 have hooks at their ends, one hook of each bar engaging an outer part of an arm 8 and the other hook engaging a hole 10 formed in a cap 11 which fits in the upper end of the shaft 5.

A shaft 12 is rotatably supported beneath each arm 8 in bearings 13 and is provided with a cog 14 at its inner end which meshes with an annular rack 15 at the top of the casing. A supporting bar 16 has its center keyed to one end of a stub-shaft 25 journalled in the bearing 13 and is rotated by shaft 12 through the instrumentality of sprocket-wheels 26 and 27, on the shaft 12 and stub-shaft 25, by a chain 28. Each supporting bar 16 is provided with a yoke 17 at its ends in which chairs or seats are rotatably supported.

Thus as the shaft or post 5 is rotated by the motor M the arms, shafts 12 and bars 16 will rotate bodily about a vertical axis. As the shafts 12 are rotated by the engagement of the cogs with the rack 15, the bars 16 are rotated about horizontal axes so that the seats travel in a vertically arranged circular path at the same time as the parts are travelling in a circular path about a vertical axis. Thus the device combines the movements of a "Ferris wheel" and a "merry-go-round."

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction, combination and arrangement of the several parts, provided such changes fall within the scope of the appended claim.

What I claim and desire to protect by Letters Patent is :

An amusement device comprising a substantially conical shaped casing, an annular rack secured to its upper edge, a centrally disposed bearing within the casing adjacent its lower end, a perpendicular shaft extending through the bearing with its outer end terminating above the rack, a collar fixed on the shaft and seated on the bearing, an enlarged gear secured to the inner end of the shaft below the bearing, a motor supported within the casing in close proximity to the shaft, radially disposed arms formed on the shaft above the rack and having their outer ends slanting downwardly, depending bearings at the extremities of the slanting ends of the arms, stub-shafts journalled in the depending bearings, a supporting bar fixed to the outer ends of the stub-shafts, fork-shaped yokes formed on the free ends of the arms, chairs pivotally disposed between the yokes adjacent their outer extremities, a sprocket gear secured to the inner end of each stub-shaft, a radially extending shaft supported beneath each arm, a gear on the inner end of each shaft meshing with the rack, a sprocket gear on the outer end of each shaft, a chain connecting the sprocket gear of each stub-shaft to the sprocket gear of each radially extending shaft and braces connecting the arms to the top of the perpendicular shaft.

CORTEZ LOROW.