F. J. GIBSON.

AMUSEMENT DEVICE.

APPLICATION FILED SEPT. 27, 1919.

1,333,407.

Patented Mar. 9, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

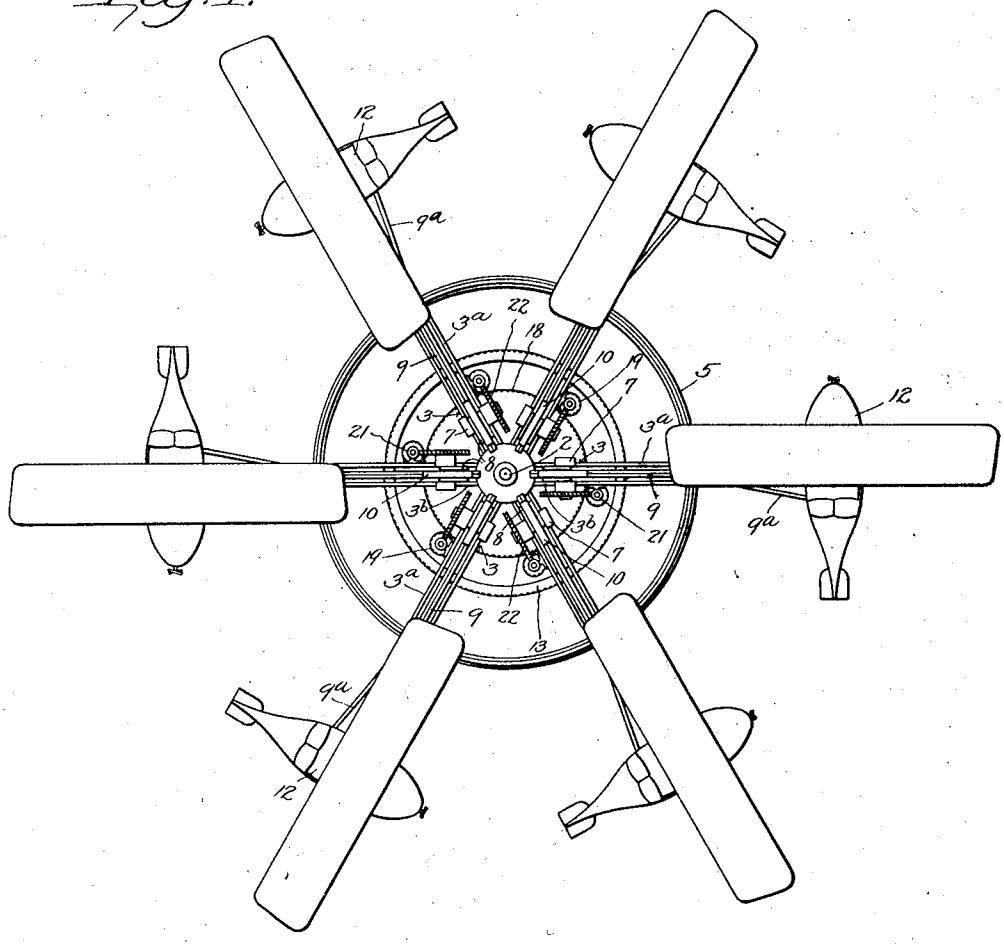


Fig. 2.

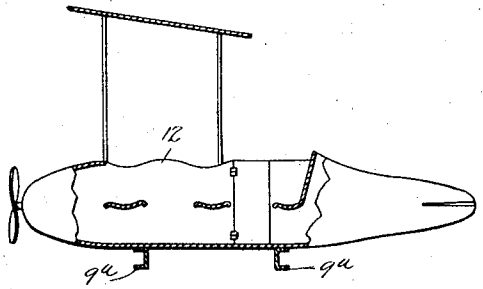
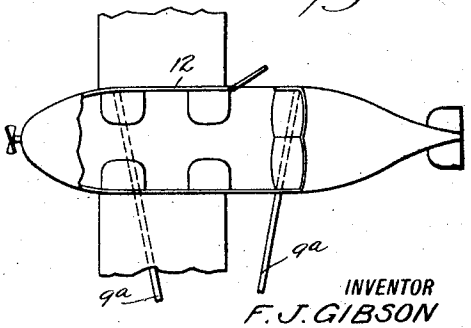


Fig. 3.



WITNESSES

Oliver W. Holmes

S. W. Foster

INVENTOR

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2 SHEETS—SHEET 2.

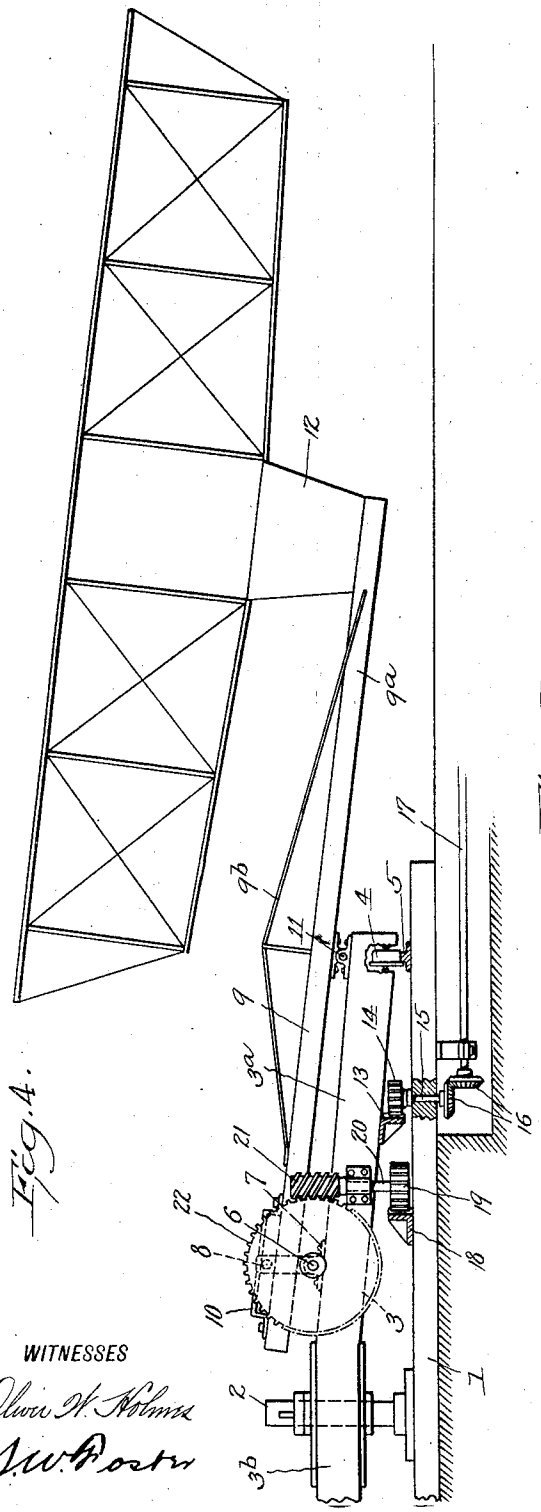

Fig. 4.

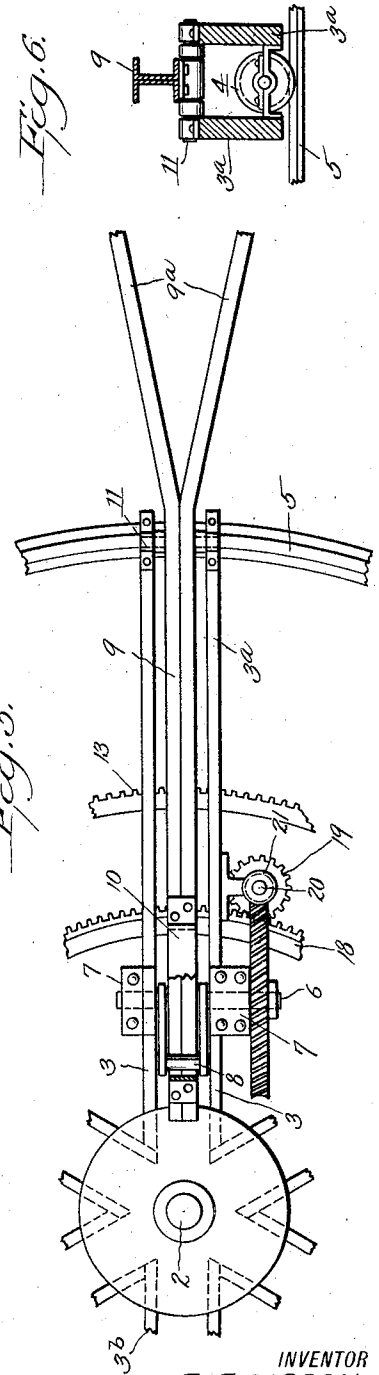

Fig. 5.

Fig. 6.

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UNITED STATES PATENT OFFICE.

FREDERICK J. GIBSON, OF OAKLAND, CALIFORNIA.

AMUSEMENT DEVICE.

1,333,407. Specification of Letters Patent. Patented Mar. 9, 1920.

Application filed September 27, 1919. Serial No. 326,791.

To all whom it may concern:

Be it known that I, FREDERICK J. GIBSON, a citizen of the United States, and a resident of Oakland, in the county of Alameda and State of California, have invented a new and Improved Amusement Device, of which the following is a full, clear, and exact description.

This invention relates to improvements in amusement devices, and more particularly to improved means for imparting an up-and-down movement to a circular series of passenger carrying devices, the latter being preferably in the form of airships.

A further object is to improve upon the construction illustrated in Patent No. 1107287, granted to me August 18, 1914, and Patent No. 1272250, granted to me July 9, 1918.

A further object is to provide improved means for supporting a circular series of airships, improved means for imparting a motion to said airships causing them to move horizontally in a circular path and simultaneously imparting to said airships a vertical motion which gives to the devices a wave-like path of movement.

With these and other objects in view the invention consists in certain novel features of construction, and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings—

Figure 1 is a plan view illustrating my improvements;

Fig. 2 is a view in side elevation of one of the passenger carrying airships;

Fig. 3 is a plan view of Fig. 2;

Fig. 4 is a fragmentary view in vertical section;

Fig. 5 is a fragmentary plan view on an enlarged scale; and

Fig. 6 is a view in transverse section through the outer end of the spokes 3^a, the section being taken in line with the track 5.

1 represents a supporting platform which may be made up of any desired number of beams and on which a vertical post 2 is secured in any approved manner. A turntable 3 has rotary mounting on the post 2 and is in the form of a spoked wheel, the spokes 3^a inclining downwardly from the hub portion 3^b and having rollers 4 at their free ends mounted to run on a circular track 5 supported on the platform 1.

The spoke portions 3^a of the turntable 3 comprise parallel members spaced apart, as shown clearly in Fig. 5, and each spoke 3^a is provided with a crank shaft 6 supported in bearing brackets 7 and having its crank arm 8 located above a beam 9 and below a guide plate 10 secured to the beam so that the rotary motion of the crank shaft operates to move the beam.

Each of the beams 9, above referred to, are preferably composed of a pair of channel irons 9^a secured together and strengthened by a strut 9^b. The intermediate portion of each beam 9 is fulcrumed on the spoke 3^a, as shown at 11, so that the motion of the crank shaft imparts a pivotal movement to the beam on its fulcrum.

The outer end of each beam 9 supports an airship 12 and these airships are made to resemble the ordinary airships in general use and are adapted to contain passengers. A convenient means of supporting the airships on the beams is to flare the channel irons 9^a apart at their outer ends and secure said channels to the under portion of the airship.

The spokes 3^a of the turntable 3 support on their under faces a circular rack 13 which is driven by a pinion 14 on a vertical shaft 15 mounted in the platform 1. Bevel gears 16 connect the shaft 13 with a drive shaft 17, the latter receiving power from any desired source and, through the medium of the gears and rack, above described, imparting a rotary motion to the turntable 3.

A circular rack 18 is fixed on the support 1 and meshes with pinions 19 secured on shafts 20. Each spoke 3^a of the turntable 3 is provided with one of these shafts 20 and each shaft 20 has a worm 21 thereon meshing with a worm wheel 22 fixed on the crank shaft 6. Hence, when the turntable is moved, all of the worms 21 will be turned through the medium of the pinions 19 and the rack 18 to cause the turning movement of the worm wheels 22 and the crank shaft 6 to impart a fulcruming action to the beams 9. Hence, when the device is in operation, the airships not only receive motion to carry them in a circular horizontal path but they also receive motion to impart an up-and-down movement

to the airships to cause them to move in a wavy path and thus give a thrill to the passengers.

Various slight changes may be made in the general form and arrangement of parts described without departing from the invention, and hence I do not limit myself to the precise details set forth but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim:

1. An amusement device, comprising a support, a rotary turntable on the support, means for imparting motion to the turntable, a series of radially projecting beams fulcrumed between their ends on the turntable, passenger carrying devices on the outer ends of the beams, and means engaging the inner ends of the beams and causing a fulcruming action to be imparted to the beams.

2. An amusement device, comprising a support, a rotary turntable on the support, means for imparting motion to the turntable, a series of radially projecting beams fulcrumed between their ends on the turntable, passenger carrying devices on the outer ends of the beams, crank shafts carried by the turntable and engaging the beams, and means for turning the crank shafts.

3. An amusement device, comprising a support, a rotary turntable on the support, means for imparting motion to the turntable, a series of radially projecting beams fulcrumed between their ends on the turntable, passenger carrying devices on the outer ends of the beams, crank shafts on the turntable engaging the beams, worm wheels on the crank shafts, worms engaging the worm wheels, pinions operatively connected with the worms, and a fixed rack on the support meshing with all of said pinions.

4. An amusement device, comprising a support, a post on the support, a turntable comprising a central hub mounted on the post, and a circular series of radially positioned spokes fixed to the hub, a circular track on the support, rollers on the spokes mounted on the track, radially positioned beams fulcrumed between their ends on the spokes, airships carried by the outer ends of the beams, means for imparting a turning movement to the turntable, and means for imparting a fulcruming action to the beams.

5. An amusement device, comprising a support, a post on the support, a turntable comprising a central hub mounted on the post, and a circular series of radially positioned spokes fixed to the hub, a circular track on the support, rollers on the spokes mounted on the track, radially positioned beams fulcrumed between their ends on the spokes, airships carried by the outer ends of the beams, a rack on the turntable, a driving pinion meshing with the rack, a fixed rack on the support, and means operated by engagement with the fixed rack for causing the beams to fulcrum as the turntable is revolved.

6. An amusement device, comprising a support, a post on the support, a turntable comprising a central hub mounted on the post, and a circular series of radially positioned parallel spokes fixed to the hub, a circular track on the support, rollers on the spokes mounted on the track, radially positioned beams comprising channel irons secured back to back and having their outer ends flared apart, said beams fulcrumed between their ends on the outer ends of the spokes, passenger-carrying devices supported on the outer ends of the beams, means for turning the turntable, and means engaging the inner ends of the beams causing the beams to fulcrum as the turntable revolves.

7. An amusement device, comprising a support, a post on the support, a turntable comprising a central hub mounted on the post, and a circular series of radially positioned parallel spokes fixed to the hub, a circular track on the support, rollers on the spokes mounted on the track, radially positioned beams comprising channel irons secured back to back and having their outer ends flared apart, said beams fulcrumed between their ends on the outer ends of the spokes, passenger-carrying devices supported on the outer ends of the beams, a rack on the turntable, a driving pinion meshing with the rack, a fixed rack on the support, and means operated by engagement with the fixed rack for causing the beams to fulcrum as the turntable is revolved.

FREDERICK J. GIBSON.