F. J. GIBSON.

AMUSEMENT DEVICE.

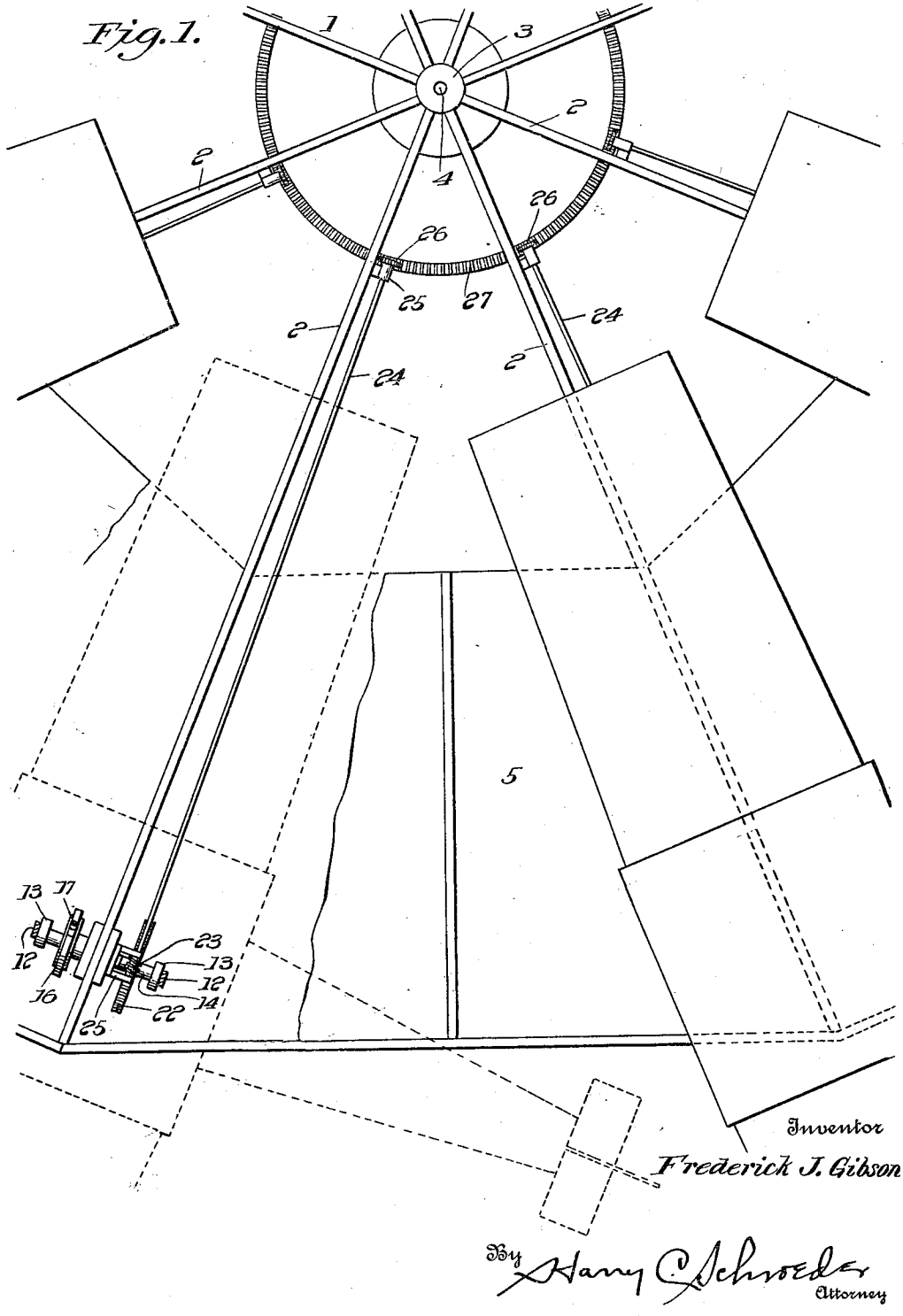
APPLICATION FILED APR. 3, 1917.

1,272,250.

Patented July 9, 1918.

2 SHEETS—SHEET 1.

Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 2.

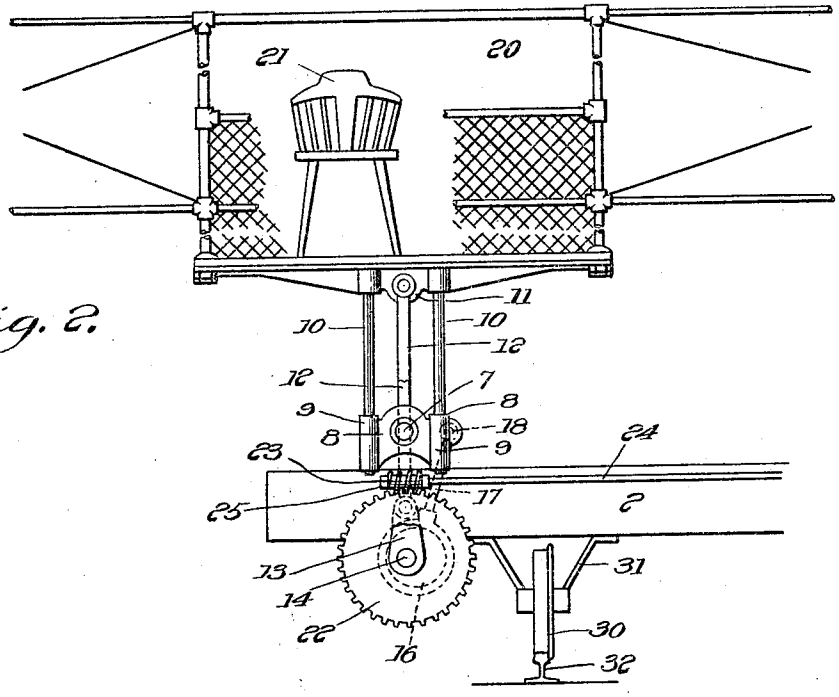
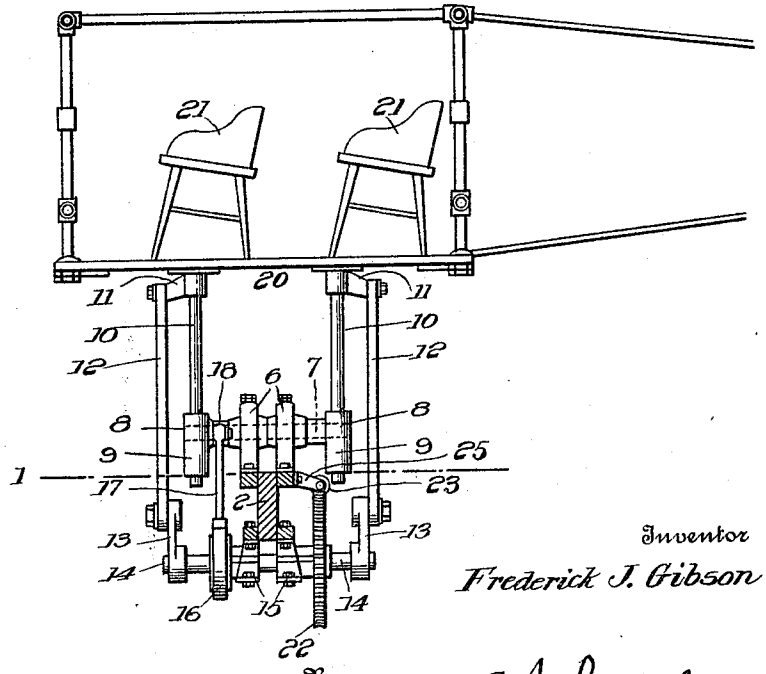


Fig. 3.



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UNITED STATES PATENT OFFICE.

FREDERICK J. GIBSON, OF OAKLAND, CALIFORNIA.

AMUSEMENT DEVICE.

1,272,250. Specification of Letters Patent. **Patented July 9, 1918.**

Application filed April 3, 1917. Serial No. 159,594.

To all whom it may concern:

Be it known that I, FREDERICK J. GIBSON, citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Amusement Devices, of which the following is a specification.

This invention is an amusement device and is an improvement over my amusement device disclosed in Letters Patent No. 1,107,287, granted to me August 18, 1914.

The invention contemplates improved means for imparting an up and down and a sidewise oscillating motion to the carriers of an amusement device, which carriers may be in the form of aeroplanes so that the occupants thereof will be given the pleasant sensation of a ride in an aeroplane.

The invention is illustrated in the accompanying drawing which forms a part of this specification and the appended claims.

Referring to the drawings:

Figure 1 is a plan view of a portion of an amusement device of the merry-go-round type embodying my invention; one of the carriers being shown in dotted lines and certain parts being cut away above line 1 of Fig. 3 to show the carrier operating means.

Fig. 2 is a vertical section of the device looking toward the rear of one of the carriers.

Fig. 3 is a side view of one of the carriers and its operating means.

A frame 1 forms the structure upon which the parts of the device are mounted. The frame comprises a plurality of beams 2, preferably eight in number extending radially from a hub 3 which is rotatably mounted on a vertical axle 4. Platforms 5 are mounted on and connect the outer ends of the beams 2. On the outer portion of each of said beams are secured bearings 6 in which are journaled a rock shaft 7, on the outer ends of which are secured rock frames 8. The rock frames have bearings 9 in which vertical standards 10 are slidably mounted. Brackets 11 extend outwardly from the upper ends of the rods 10, to which are pivoted the upper ends of pitmen 12; the lower ends of said pitmen being connected to cranks 13, secured on the ends of a shaft 14, journaled in bearings 15 secured to the under side of the beam 2. An eccentric 16 is mounted on shaft 14 and is pivotally connected by rod 17 to rock frame 8 at 18. On the upper ends of said standards is mounted a carrier 20, which, as shown, may be in the form of an aeroplane, having seats 21 for the persons riding in the carrier. On the shaft 14 is secured a worm gear 22, with which meshes a worm 23 on shaft 24 journaled in bearings 25 on beam 2. On the inner end of shaft 24 is secured a pinion 26 which meshes with a fixed gear 27, the center of which corresponds to the axis on which frame 1 turns. The outer portion of the frame is mounted upon wheels 30 journaled in bracket 31 secured to the under side of the beams 2, which wheels travel on a track 32.

The operation of the invention is as follows:

The device is rotated on the axle 4 by any suitable means not shown. During the rotation of the device the pinion 26 meshing with fixed gear 27 rotates shaft 24 and worm 23. The worm 23 rotates worm gear 22 and shaft 14, the cranks 13 and eccentric 16. As the cranks 13 are rotated the carriers 20 are reciprocated up and down by the pitmen 12, the carrier standards 10 sliding in the rock frames 8 to permit such movement, and during said up and down movement of the carriers the rock frames 8 and carriers are oscillated sidewise on shaft 7 by the eccentric 16 and eccentric rod 17 The up and down and side oscillating motion of the carrier give the occupants of the carriers the pleasant sensation of a ride in an aeroplane.

Having described my invention I claim as new and desire to secure by Letters Patent:

1. An amusement device comprising a movable frame, carriers mounted on said frame, a fixed gear, a shaft journaled on said frame, a pinion on said shaft meshing with said fixed gear, a worm on said said shaft, a second shaft journaled on said frame, a worm gear on said second shaft meshing with said worm, and means actuated by said second shaft for reciprocating said carriers up and down and for oscillating said carriers sidewise.

2. An amusement device comprising a movable frame, a rock shaft journaled on said frame, rock frames on said rock shaft, a carrier mounted in said rock frames to reciprocate up and down, a rotatable shaft journaled on said frame, cranks on said rotatable shaft, pitmen connecting said cranks and carrier for reciprocating said carrier up and down in said rock frames, an eccen-

tric on said rotatable shaft, for rocking said rock shaft, rock frames and carrier, and means for rotating said rotatable shaft.

3. An amusement device comprising a rotatable frame, a fixed gear at the center of said frame, a shaft journaled on said frame, a pinion on said shaft meshing with said fixed gear, a worm on said shaft, a second shaft journaled on said frame, a worm gear on said second shaft meshing with said worm, a carrier mounted on said frame, and means actuated by said second shaft for reciprocating said carrier up and down and for oscillating said carrier sidewise.

4. An amusement device comprising a rotatable frame, a fixed gear at the center of said frame, a shaft journaled on said frame, a pinion on said shaft meshing with said fixed gear, a worm on said shaft, a second shaft journaled on said frame, a worm gear on said second shaft meshing with said worm, a carrier mounted on said frame, a rock shaft journaled on said frame, rock frames on said rock shaft, a carrier reciprocatively mounted in said rock frames to move up and down, cranks on said second shaft, pitmen connecting said cranks and carrier for reciprocating said carrier up and down in said rock frames, and an eccentric on said second shaft for rocking said rock shaft, rock frames and carrier.

In testimony whereof I affix my signature.

FREDERICK J. GIBSON.