C. A. HOADLEY.

AMUSEMENT DEVICE.

APPLICATION FILED MAR. 8, 1920.

1,373,425.

Patented Apr. 5, 1921.

2 SHEETS—SHEET 1.

Fig-1-

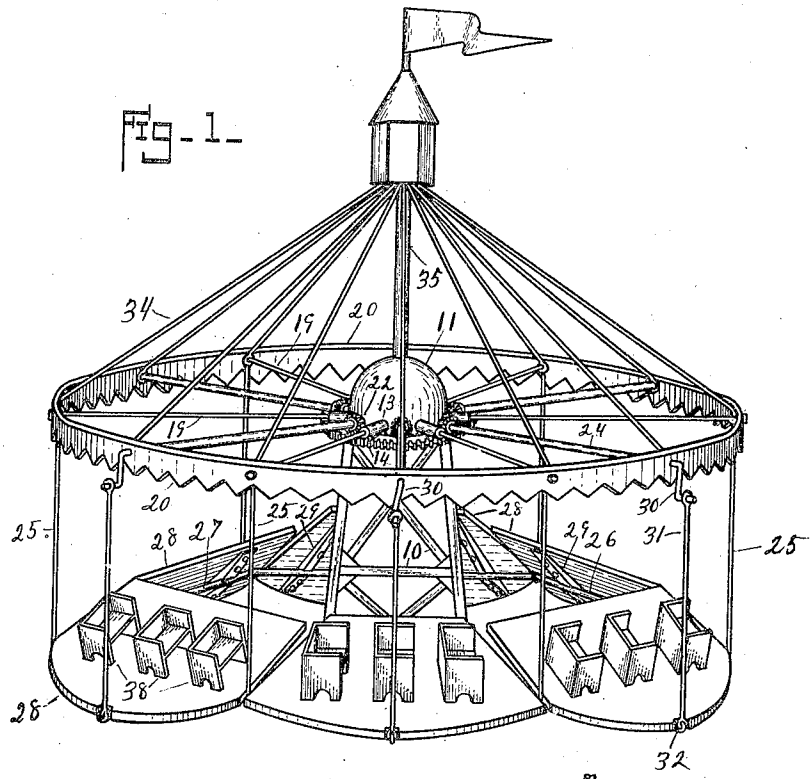
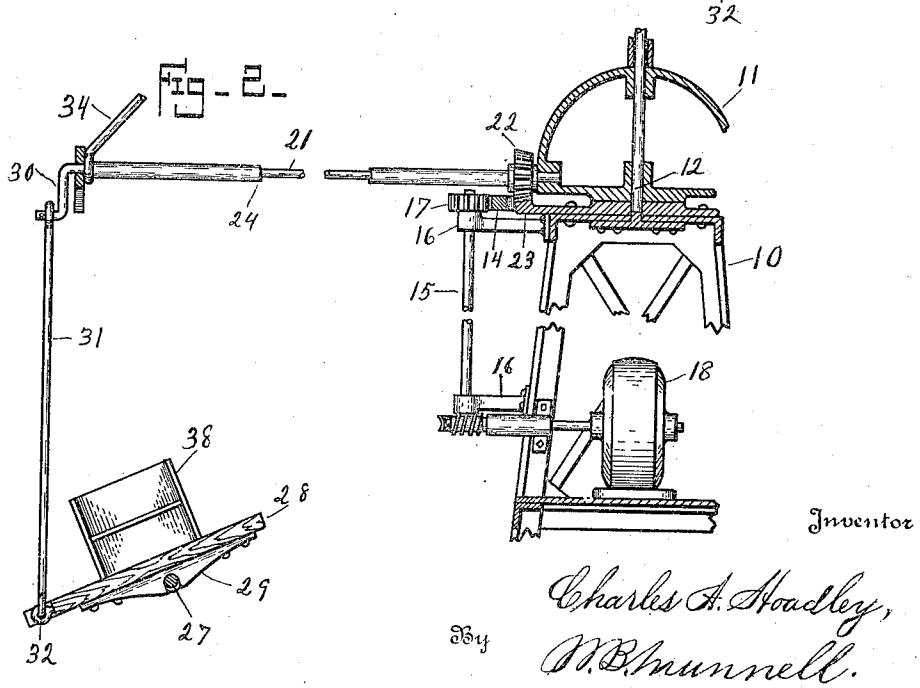


Fig-2-



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2 SHEETS—SHEET 2.

Fig. 3.

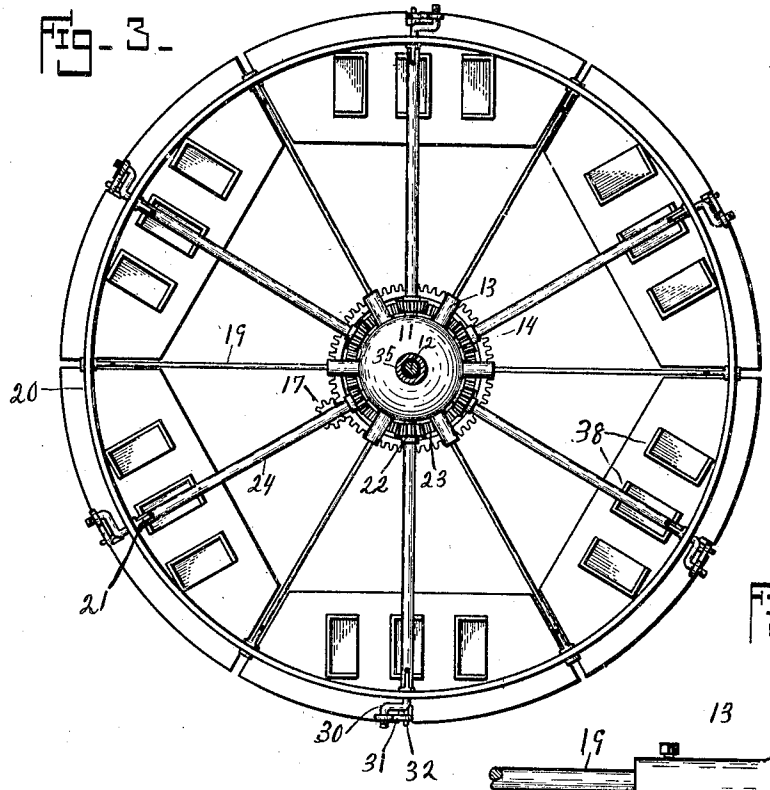


Fig. 5.

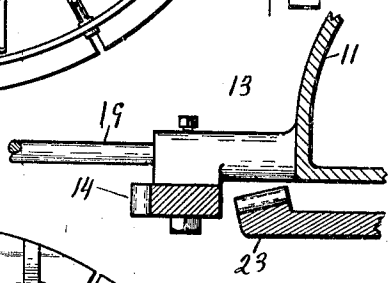
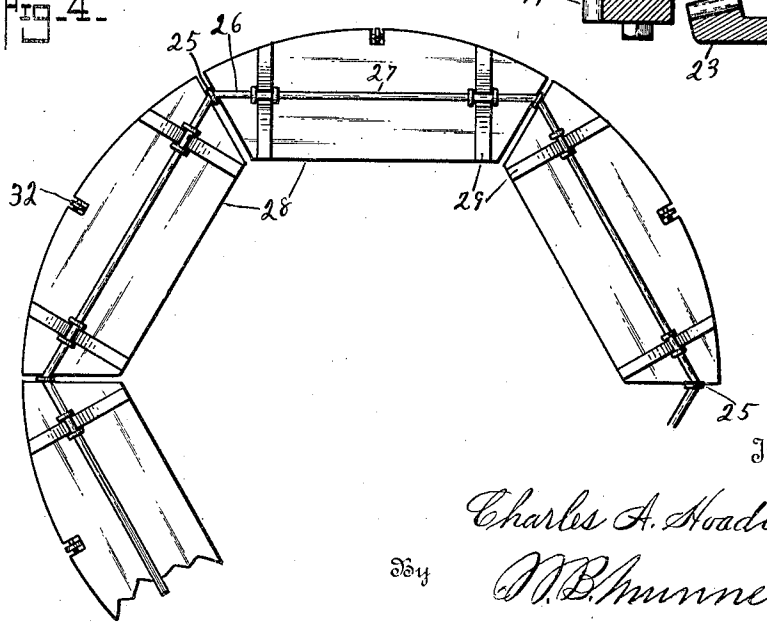


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES AUSTIN HOADLEY, OF LOUISVILLE, KENTUCKY.

AMUSEMENT DEVICE.

1,373,425. Specification of Letters Patent. Patented Apr. 5, 1921.

Application filed March 8, 1920. Serial No. 364,090.

To all whom it may concern:

Be it known that I, CHARLES A. HOADLEY, a citizen of the United States, residing at Louisville, county of Jefferson, and State of Kentucky, have invented a new and useful Amusement Device, of which the following is a specification.

This invention relates to amusement devices of the merry-go-round or carousel type, and an object is to provide a device of the character described which will give the rider a new and unique sensation.

With the foregoing and other objects in view, the invention consists of the novel construction and arrangement of parts illustrated in the accompanying drawing, which forms a part of this specification, wherein is set forth an embodiment of the invention but it is to be understood that such changes and modifications may be resorted to as come within the scope of the appended claims.

In the drawing, wherein similar reference characters designate like parts in the several views, Figure 1, is a perspective view of an embodiment of the invention; Fig. 2, a radial section, on an enlarged scale, with parts broken away and others omitted; Fig. 3, a top plan view; Fig. 4, a bottom plan view of a portion of the bottom; Fig. 5, a sectional detail, on an enlarged scale.

The embodiment of the invention illustrated herewith comprises a central supporting structure, or tower —10— this may be of any suitable construction, as shown it is formed of structural iron. The tower supports a rotatable structure comprising a cap —11— connected with the structure by means of a king bolt —12—. A plurality of brackets —13— radiating from the lower edge of the cap carries a large annular gear —14— by means of which the structure is driven. A shaft —15— journaled in brackets —16— extended from a side of the tower is provided on its upper end with a pinion —17— enmeshed with the annular gear and at its lower end is operatively connected with suitable driving means such as an electric motor —18—. A plurality of spokes or rods —19— are secured by their inner ends in, or to, the brackets 13, and by their outer ends to a ring —20—. A plurality of shafts —21— alternate with the spokes and are journaled respectively in the cap —11— and in the ring 20. These shafts are provided near their inner ends with miter gears —22— which engage with a large miter gear —23— secured to the tower. The shafts are run through tubes —24— which serve as spacing members, the ends bearing respectively against the inside of the ring and against the hub of the miter gears. At the outer end of each spoke is a depending rod —25— which is connected at its lower end to a polygonal shaped member —26—, the sides —27— of which are chords of the circle described by the ring 20, the rods being connected thereto at the angles thereof between contiguous ends of sector shaped sections —28— of floor which are pivotally mounted by means of bearings —29— upon the sides 27. On the outer end of each of the shafts 21, is a crank —30—, and a rod —31— connected therewith which depends to a connection at —32— with a corresponding section of floor, the connection being on the outer edge thereof. Seats —38— are arranged transversely of the floor sections. A guy rod —34— extends from a connection with the spokes, and each of the shafts, in proximity to the ring 20, to a connection with a mast, —35— and serves to brace and support the rotatable structure. In operation the motor drives the structure. As the structure turns, the miter gears on the shafts 21, being engaged with the large gear 23, causes the shafts to rotate and through the medium of the cranks and rods, impart a rocking motion to the floor sections and seats thereupon. It will be observed that passengers occupying the seats when the device is in motion, will move forward in a circle and at the same time be submitted to a lateral, or sidewise rocking or swaying motion which will be productive of very pleasurable emotions.

Having thus described my invention so that those skilled in the art pertaining thereto can make and use the same, I claim:

1. In a device as characterized, a structure rotatable about a vertical axis, said structure including supporting members forming chords of a circle, sector shaped floor sections mounted longitudinally upon said members forming a continuous floor and means for rocking said sections independently and laterally as the structure is rotated.

2. In a device as characterized, a tower, a depending structure rotatably mounted thereon, means for rotating said structure,

floor sections carried by the structure and forming a continuous floor and means for rocking said sections independently and laterally relative to the travel of the structure.

3. In a device as characterized, a supporting structure, a rotatable structure carried thereby, a large miter gear secured to the supporting structure, radial shafts on the rotatable structure, miter gears on said shafts enmeshed with said large gear, floor sections carried by the rotatable structure forming a continuous floor and operative connections between said shafts and corresponding floor sections whereby an independent lateral rocking motion is imparted to the floor sections.

4. In a device as characterized, a tower, a wheel like structure mounted thereon and adapted to be rotated in a horizontal plane, rods depending from the rim of said structure, shafts connected to the lower ends of said rods, said shafts forming chords of a circle, floor sections seated on the shafts longitudinally thereof, means for rotating the structure and means operable by said rotation for rocking said floor sections.

CHARLES AUSTIN HOADLEY.