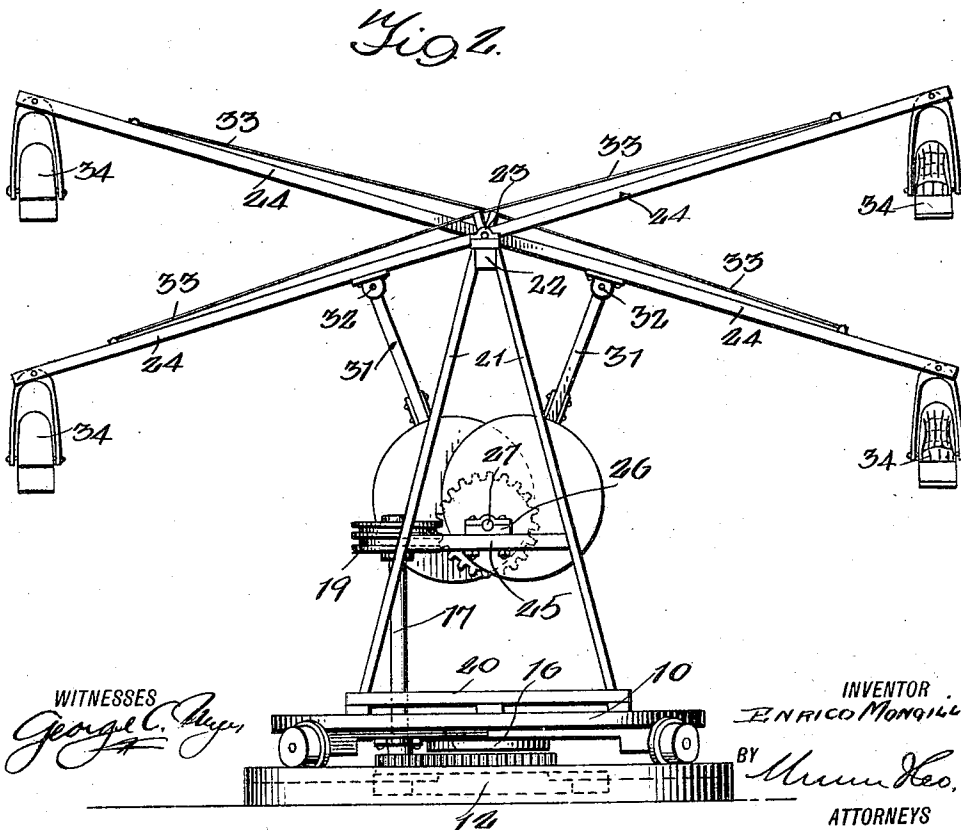
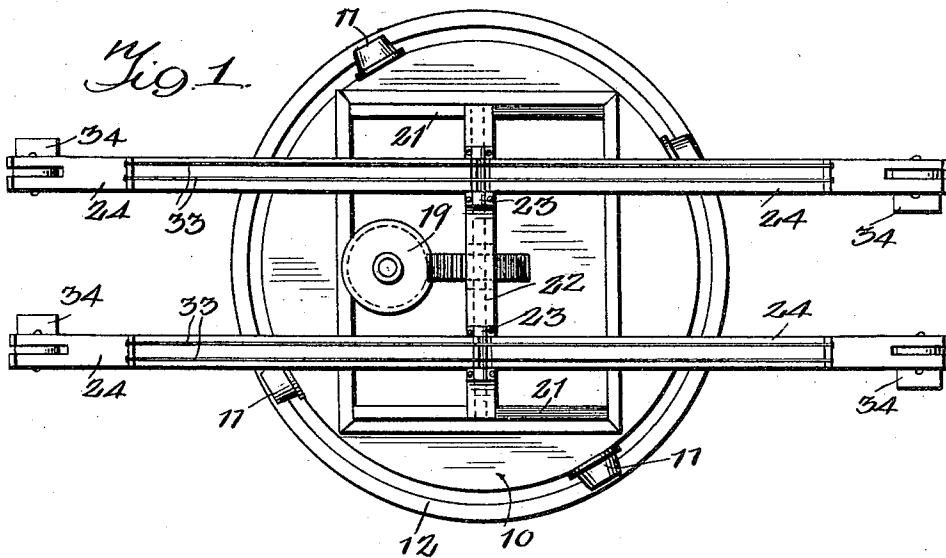


E. MONGILLO.
AMUSEMENT APPARATUS.
APPLICATION FILED JUNE 7, 1921.

1,402,368.

Patented Jan. 3, 1922.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

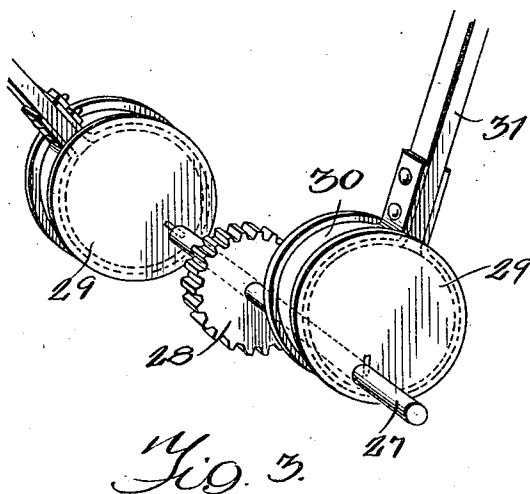


Fig. 3.

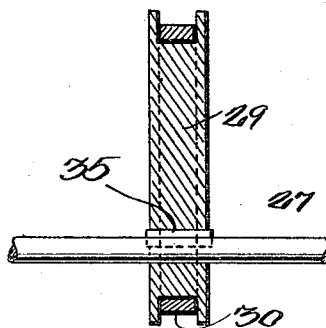


Fig. 4.

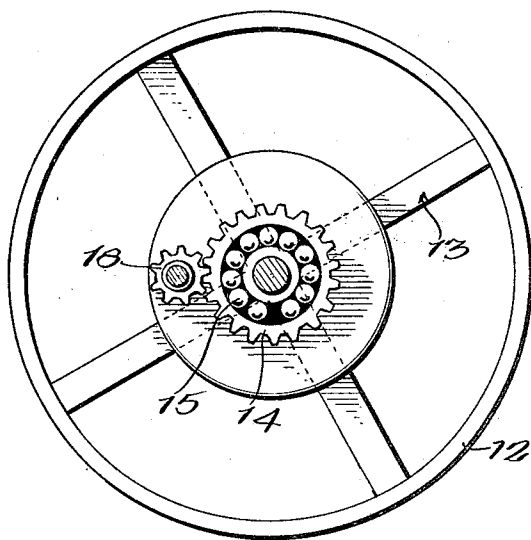


Fig. 6.

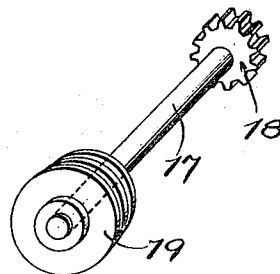


Fig. 5.

WITNESSES
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UNITED STATES PATENT OFFICE.

ENRICO MONGILLO, OF BRADFORD, PENNSYLVANIA.

AMUSEMENT APPARATUS.

1,402,368.

Specification of Letters Patent.

Patented Jan. 3, 1922.

Application filed June 7, 1921. Serial No. 475,599.

To all whom it may concern:

Be it known that I, ENRICO MONGILLO, a subject of the King of Italy, and a resident of Bradford, in the county of McKean and State of Pennsylvania, have invented certain new and useful Improvements in Amusement Apparatus, of which the following is a specification.

My present invention relates generally to amusement apparatus, and more particularly to an apparatus in the nature of a rotating seesaw, my object being the provision of a comparatively simple and inexpensive apparatus in the structure of which the parts are balanced and operate in such manner as to reduce wear to a minimum and make it an easy matter to maintain the same in proper working condition.

In the accompanying drawings which illustrate my present invention and form a part of this specification,

Figure 1 is a top plan view,

Figure 2 is a side elevation,

Figure 3 is a detail perspective view of the shaft driving the eccentrics,

Figure 4 is a sectional view through one of the eccentrics,

Figure 5 is a detail perspective view of the connecting shaft, and

Figure 6 is a horizontal section taken on a plane between the guide frame and platform.

Referring now to these figures, and in accordance with my invention, a circular platform 10 is provided at spaced points therearound with wheels or rollers 11 disposed upon and traveling on the outer circular track 12 of a lower guide frame 13, the latter being clearly seen in Figure 6 and having a stationary central gear 14 enclosing ball or other anti-friction bearings 15 on which the depending central bearing member 16 of the platform 10 rests so that the rollers 11, the latter of which are preferably of the flanged type to prevent accidental displacement of the platform, may travel easily and without undue friction.

Mounted through the platform 10 is a vertical connecting shaft 17, the lower end of which is provided with a spur gear 18 in mesh with the ring gear 14 of the supporting frame, and the upper end of which shaft has a worm 19 at a point substantially above the platform.

The platform also supports the base of an upright framework 21 whose upper cross

bar 22 supports the bearings 23 of the seesaw beams 24. Framework 21 also has intermediate cross bars 25 at right angles to the upper cross bar 22, said intermediate cross bars supporting bearings 26 for the opposite ends of a shaft 27 having at its center a worm gear 28 with which the worm 19 meshes.

The shaft 27 is provided at opposite sides of its worm gear 28 with eccentric disks 29, each of which is peripherally grooved to form a seat for its eccentric strap 30 which is connected to the lower end of a connecting rod 31.

By reference to Figure 2 it will be noted that the connecting rod 31 of the two eccentrics are extended to relatively opposite sides of the central plane which runs through the axis of the platform 10, through the shaft 27 and the bearings 23 of the seesaw beams 24, the outer ends of these connecting rods 31 being pivotally connected at 32 to the beams 24 at equi-distant points from the bearings 23 supporting the beam fulcrums.

Each of the seesaw beams 24 is braced by a truss 33, and each thereof is provided at its opposite ends with swivelly supported seats 34 whereby the latter remain level at all times irrespective of the upward and downward movements thereof.

In practice the eccentric disks 29 are preferably keyed on the driven shaft 27 as shown in Figure 4, the key being indicated at 35, and a motor of any suitable type may be mounted directly on the platform 10 and connected in any suitable manner to the upright connecting shaft 17 so as to rotate the latter. As this shaft rotates, its lower gear 18, meshing with the stationary ring gear 14 of the supporting frame 13, causes rotation of the platform 10. At the same time the worm 19 at the upper end of shaft 17 rotates the driven shaft 27 which, through its eccentrics, causes swinging movement of the seesaw beams 24 on their fulcrums in the bearings 23.

In this way a combined rotation and swinging or seesaw movement is brought about in a simple effective manner to the amusement of those seated in the seats 34, and it is quite obvious that in view of the manner in which the several parts are mounted, in particular the balancing of the power connections leading to the seesaw beams, the motion will be easy and uniform, vibration being reduced to a minimum, and

friction and wear will be correspondingly reduced.

I claim:

1. An amusement apparatus including a
5 supporting frame having a stationary gear,
a rotating platform movable on the frame,
a framework rising from the platform hav-
ing upper bearings, seesaw beams ful-
crumed in the bearings and having swiveled
10 seats at their outer ends, a driven shaft
mounted in the framework below the said
bearings and alined with the latter above
the axis of the platform, a vertical shaft
mounted through the platform having a
15 gear at its lower end engaging the station-
ary gear of the supporting frame and also
having geared connection at its upper end
with the first mentioned shaft, eccentrics se-
cured on the first mentioned shaft, and con-
20 necting rods leading from said eccentrics
and connected to the seesaw beams at equi-

distant points upon relatively opposite sides
of the fulcrums of the latter.

2. An amusement apparatus including a
supporting frame, a platform rotatable on 25
said frame, an upright framework secured
on and rotating with said platform, seesaw
beams fulcrumed on said framework, seats
at the outer ends of said beams, a shaft jour-
naled in the said framework in vertical 30
alinement with the axis of the platform and
the fulcrums of said beams and having op-
erative connections with the seesaw beams
engaging the latter at relatively opposite
sides of their fulcrums, and a vertical shaft 35
journaled through the platform having
geared connection at its upper end with the
first mentioned shaft and having a gear at
its lower end in engagement with the gear
of the supporting frame as described.

ENRICO MONGILLO.