No. 862,365. PATENTED AUG. 6, 1907.

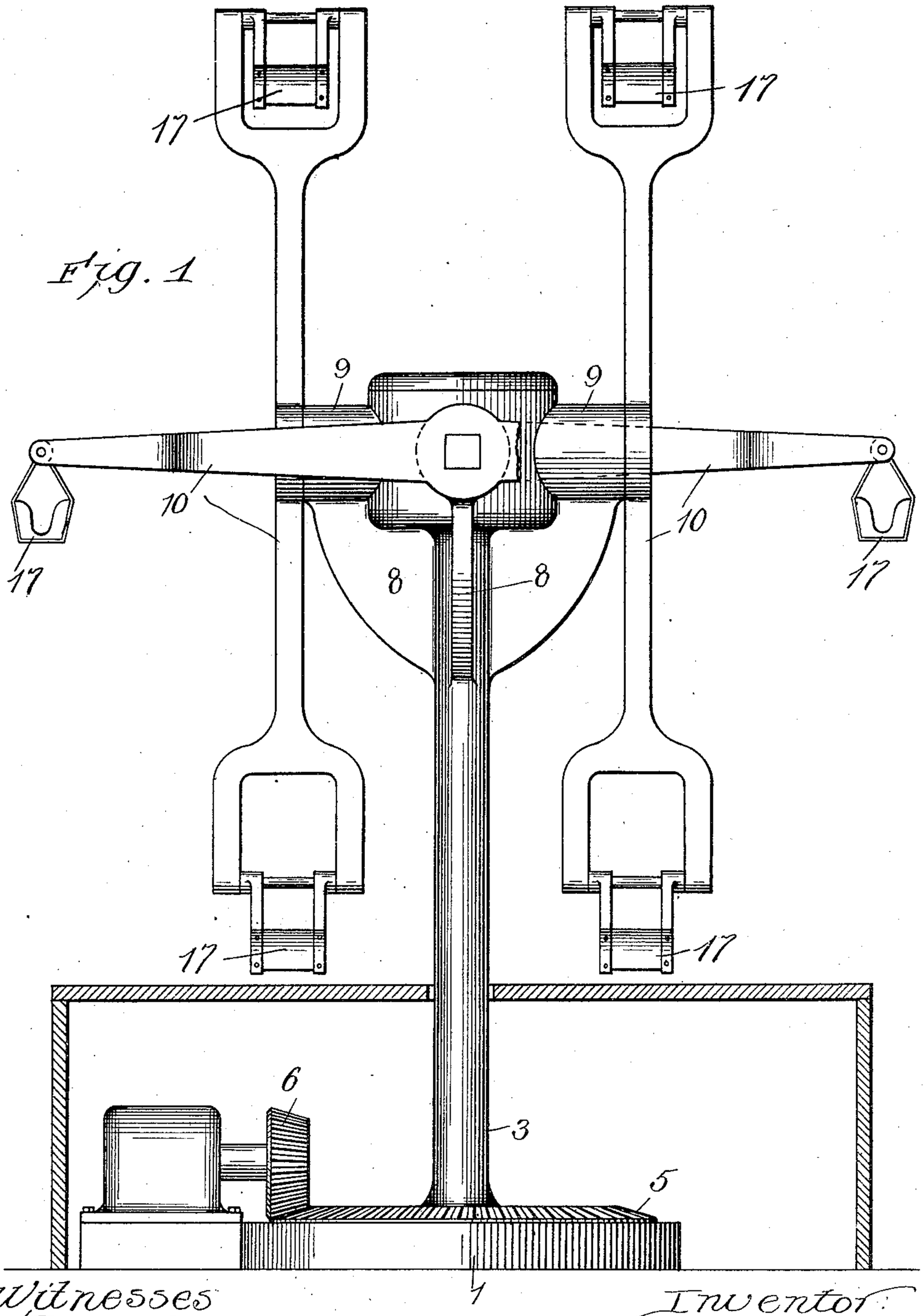
J. S. WINNETT.

AMUSEMENT DEVICE.

APPLICATION FILED SEPT. 25, 1905.

3 SHEETS—SHEET 1.

Fig. 1



Witnesses
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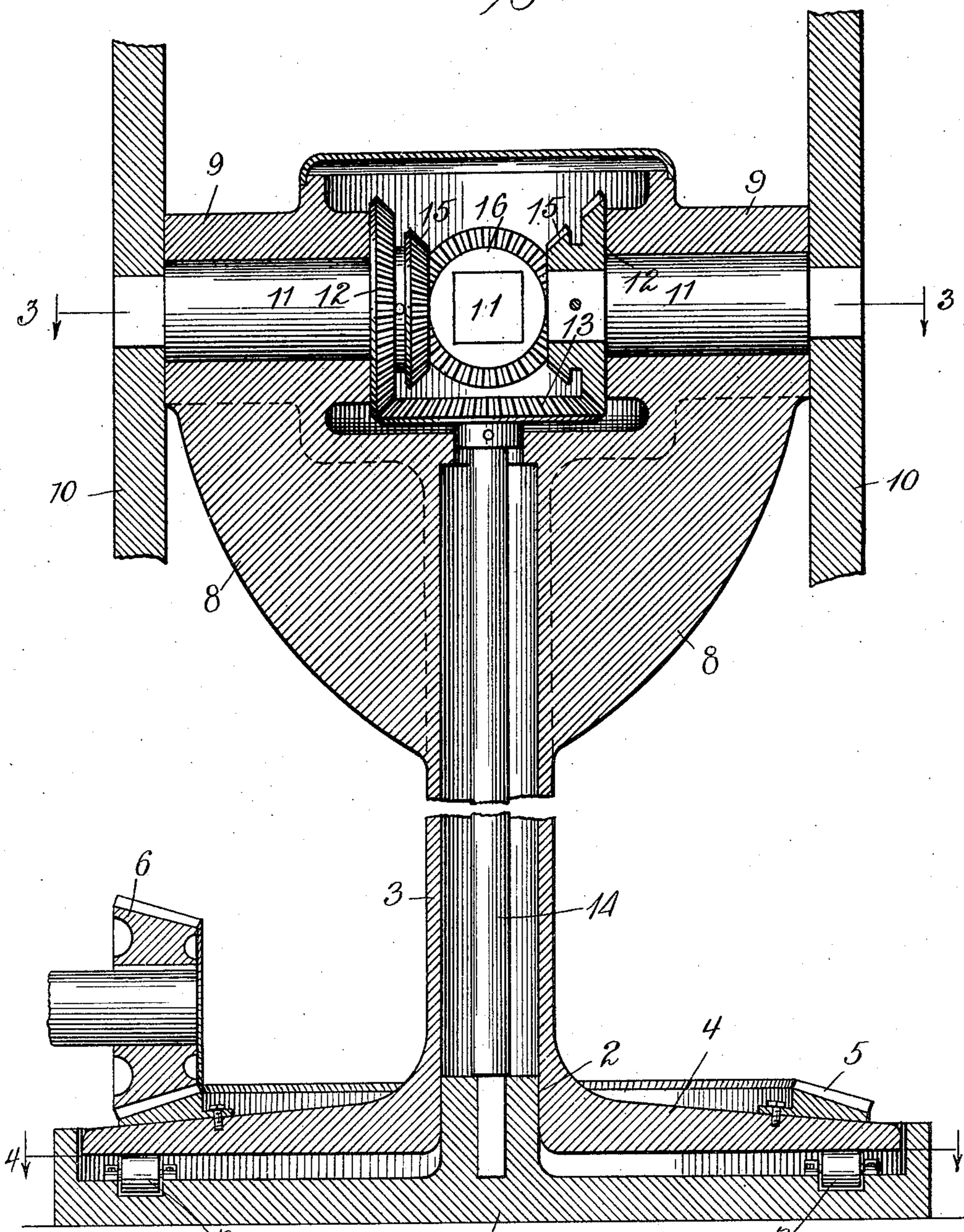
3 SHEETS—SHEET 2.

Fig. 2



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3 SHEETS—SHEET 3.

Fig. 3.

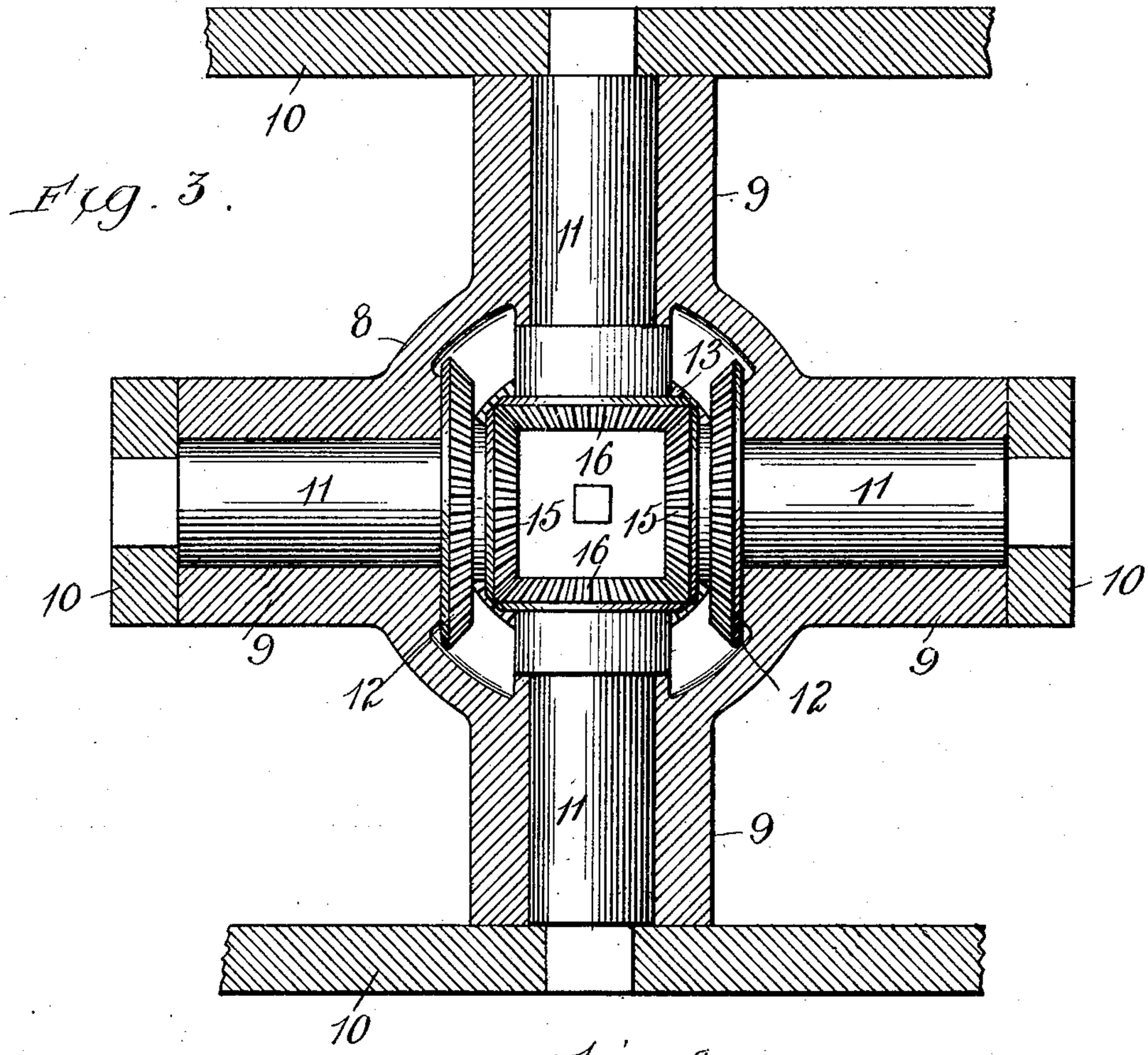
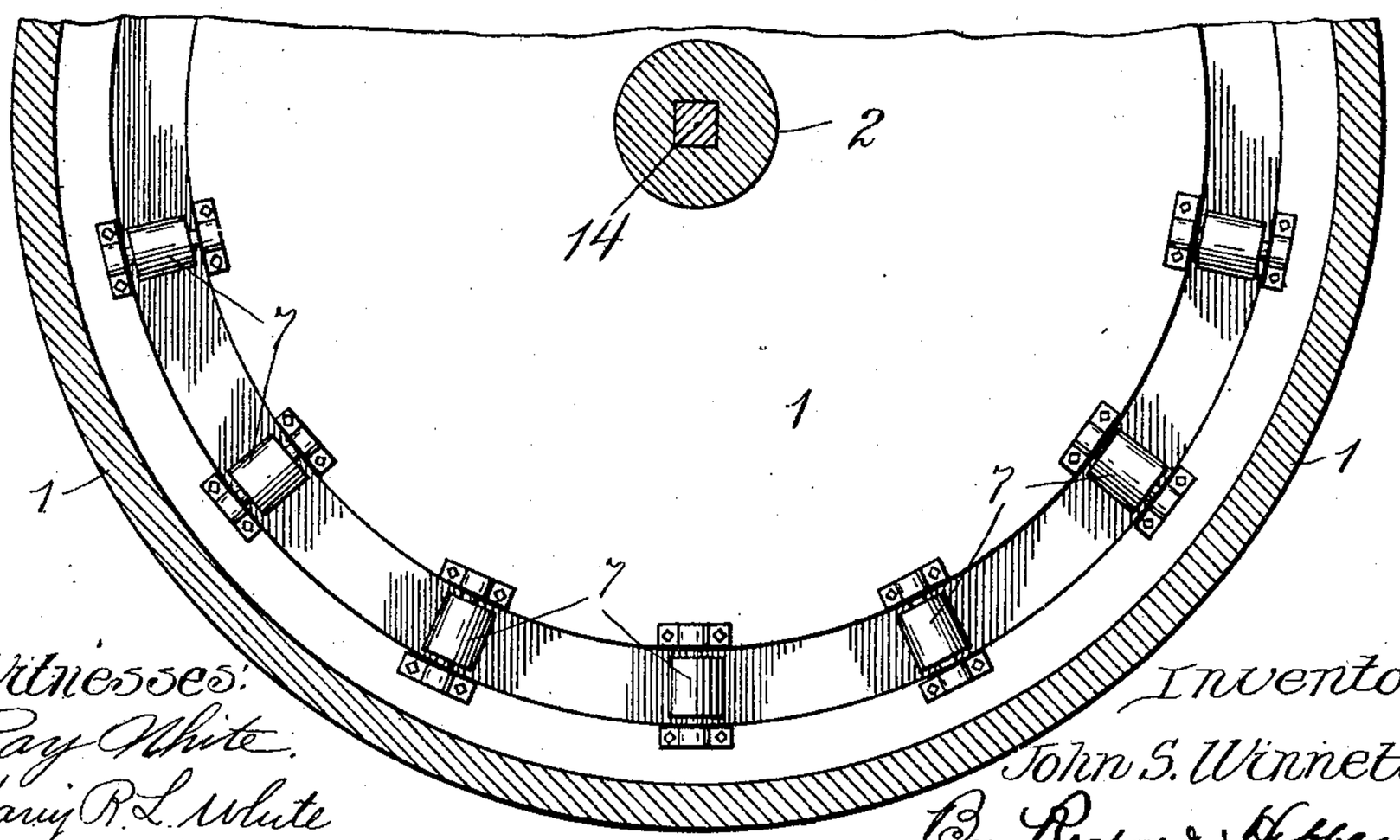


Fig. 4



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UNITED STATES PATENT OFFICE.

JOHN S. WINNETT, OF CHICAGO, ILLINOIS.

AMUSEMENT DEVICE.

No. 862,365. Specification of Letters Patent. Patented Aug. 6, 1907.

Application filed September 25, 1905. Serial No. 279,983.

To all whom it may concern:

Be it known that I, JOHN S. WINNETT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Amusement Devices, of which the following is a specification.

My invention relates to amusement devices of the general class in which passengers are carried in revolving cars, baskets and the like and the object thereof is to provide a device or apparatus capable of imparting to such cars or baskets both a revolving and a rotary motion.

The various features of advantage and utility of my form of amusement device will be understood from a description of my device hereinafter given.

In the drawings, Figure 1 is an elevation of one embodiment of my amusement device; Fig. 2 a central vertical section of a portion thereof but on a scale somewhat larger than that of Fig. 1; Fig. 3 a section on the line 3—3 of Fig. 2; and Fig. 4 a sectional plan on the line 4—4 of Fig. 2.

Referring to the present embodiment of my invention as herein shown, the same comprises a base 1 resting on the ground or other suitable support and having rising from its middle a tubular extension 2 which receives and supports a hollow post or main support 3 rising vertically to the proper distance dependent upon the length of the arms hereinafter described. This support 3 is arranged to be revolved in suitable manner and as herein shown the lower portion thereof is formed as a disk 4, on whose upper surface is formed or secured a bevel gear 5. This bevel gear or the entire disk 4 acts as a driven gear for revolving the tubular support 3, such gear being arranged to mesh with and to be driven by the driving gear 6. By preference I interpose between the lower surface of the disk 4 and the base 1 a circular series of anti-friction rollers 7.

The upper end of the tubular support 3 is formed as a frame 8 for the purpose of supporting the series of arms and the gearing therefor. As clearly illustrated in Figs. 2 and 3, this frame 8 has four lateral extensions 9 corresponding in number to the number of arms 10 and providing suitable bearings for the shafts 11 of such arms. These arms are of any suitable length and are secured at their centers to their shafts 11, suitable driving connections being provided for the shafts, with the result that during the revolution of the frame 8 and consequently of the arms, the latter are simultaneously rotated. Moreover, the arrangement is such that the members of each pair of arms located on opposite sides of the frame are rotated in opposite directions. To accomplish these results one or more of the shafts 11, in the present instance two of them, are provided at their inner ends with a special form of gear having two sets of gear teeth, the outer one of which marked 12 is arranged to mesh with a stationary gear 13 secured to the upper end of a stationary post 14 which is mounted in the extension 2 of the base. The other set of gear teeth marked 15 is arranged to mesh with oppositely arranged gears 16 secured to their shafts 11 and similar to the first mentioned gears with the exception that they have no provision for meshing with the stationary gear 13. Thus the gears 15 both mesh with both the gears 16, and the two gears 12 mesh with the stationary gear 13 at the upper end of the stationary post 14.

The outer ends of the arms 10 are bifurcated and in such bifurcations are pivotally arranged the cars or baskets 17 for carrying the passengers. According to the embodiment of my invention now being described, there are eight of these cars or baskets, inasmuch as four arms are provided.

It will be understood from the foregoing description that the revolution and rotation of the arms 10 are simultaneous and also that the members of each pair of arms rotate in opposite directions. The revolution of the arms is occasioned by the revolution of the frame 8 and support 3, while the rotation is occasioned by the meshing of the gear 12 with the stationary gear 13.

I claim:

1. An amusement device comprising a revolving support, an even plurality of arms having laterally extending rotating shafts having bearings in said support, and operating connections for revolving said support and rotating the arms on their shafts in alternately opposite directions.

2. An amusement device comprising a revolving support, an even plurality of arms having laterally extending rotating shafts having bearings in said support, and operating connections for revolving said support and rotating the arms on their shafts in alternately opposite directions, the adjustment of said arms being such that when any given arm is horizontal the adjacent arms will be vertical.

3. An amusement device comprising a revolving support, an even plurality of arms having laterally extending shafts journaled in said support said shafts being provided with gear wheels at their inner ends, a fixed support having gearing at its upper end, and operating connections between said gearing and the gear wheels upon the shafts for rotating the shafts in alternately opposite directions when the revolving support is revolved.

4. An amusement device comprising a revolving support, a fixed support having a gear at its upper end, an even plurality of arms having laterally extending shafts journaled in said revolving support said shafts being provided with gear wheels at their inner ends meshing with each other to rotate the shafts in alternately opposite directions, a gear wheel upon one of said shafts meshing with the gear upon the fixed support to rotate the connected gears upon said shafts when the revolving support is revolved, and means for revolving said support.

5. An amusement device comprising a support mounted to revolve, a stationary post having a gear, a plurality of arms having shafts journaled on said support, gears on said shafts meshing with each other and two of them meshing with said gear on the post.

6. An amusement device comprising a support mounted to be revolubly driven by the motive power of the device and consisting of a hollow post having a frame at its upper end, a stationary post extending longitudinally of said revoluble support having a fixed gear at its upper end, a plurality of arms having shafts journaled in said frame,

gears on said shaft meshing with each other to form a train of intermeshing gears, and gearing between said train of gears and the gear on the post.

7. An amusement device comprising a support mounted to revolve and consisting of a hollow post and a frame at its upper end, a stationary post extending longitudinally of said revolving support and having a gear at its upper end, a plurality of arms having shafts journaled in said frame, gears on said shafts and arranged to be driven by said gear on the post, a driven gear at the lower end of the revolving support, and means for revolving said driven gear.

8. An amusement device comprising a support mounted to revolve, and consisting of a hollow post and a frame at its upper end, a stationary post extending longitudinally of said revolving support and having a gear at its upper end, a plurality of arms having shafts journaled in said frame, gearing between said shafts and the gear on the post, a driven gear at the lower end of the revolving support, a base on which such support is mounted, means for driving said driven gear, and anti-friction rollers between said base and driven gear.

9. An amusement device comprising a head or support mounted to revolve, a plurality of rotatable arms having shafts journaled on said support, a main gear, a series of gears located on the inner ends of said shafts and arranged to mesh with each other, and intermediate gears on two of such shafts and arranged to mesh with the main gear.

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Witnesses:
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