No. 799,986. PATENTED SEPT. 19, 1905.

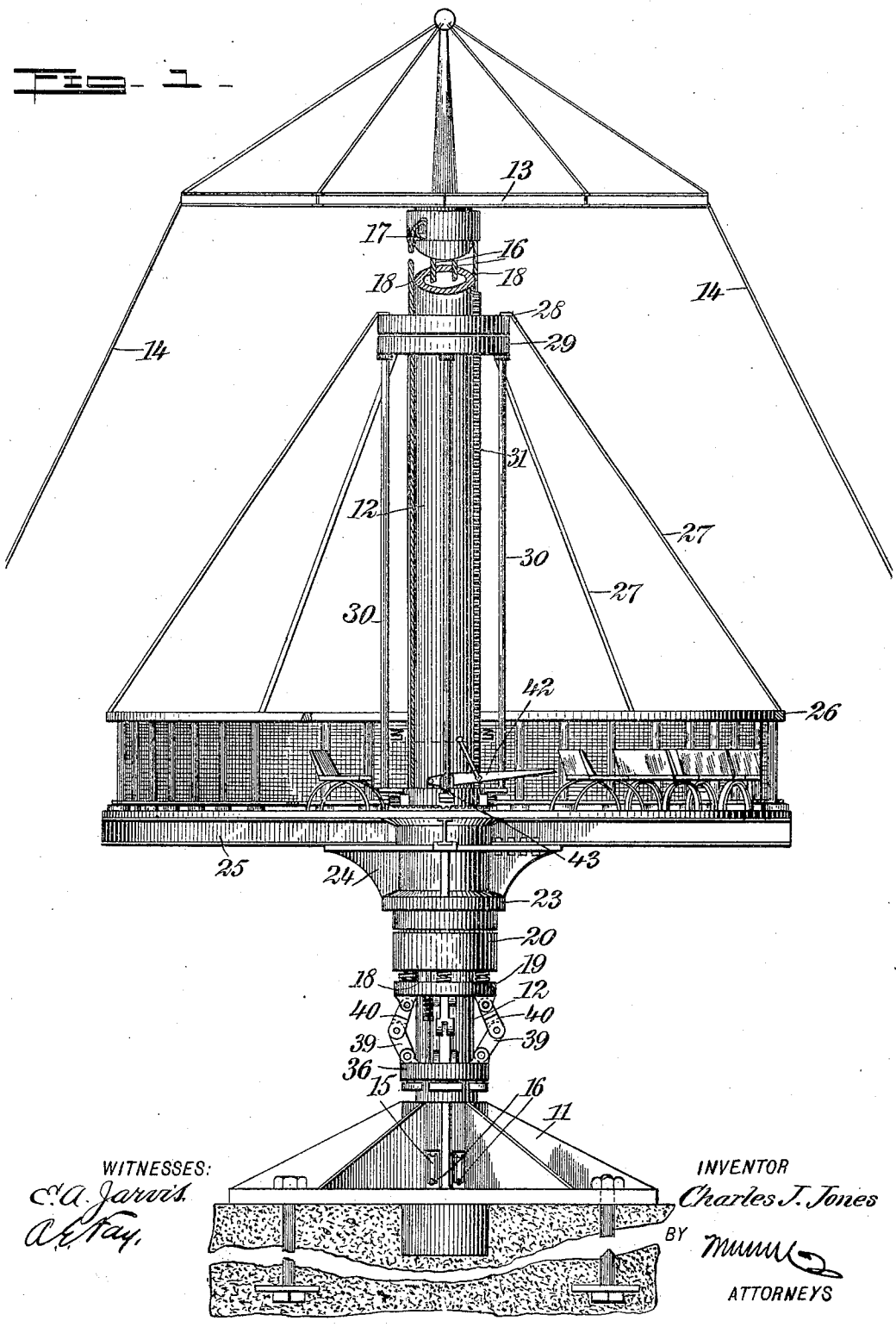
C. J. JONES.

PLEASURE WHEEL.

APPLICATION FILED OCT. 18, 1904.

3 SHEETS—SHEET 1.

FIG. 1.



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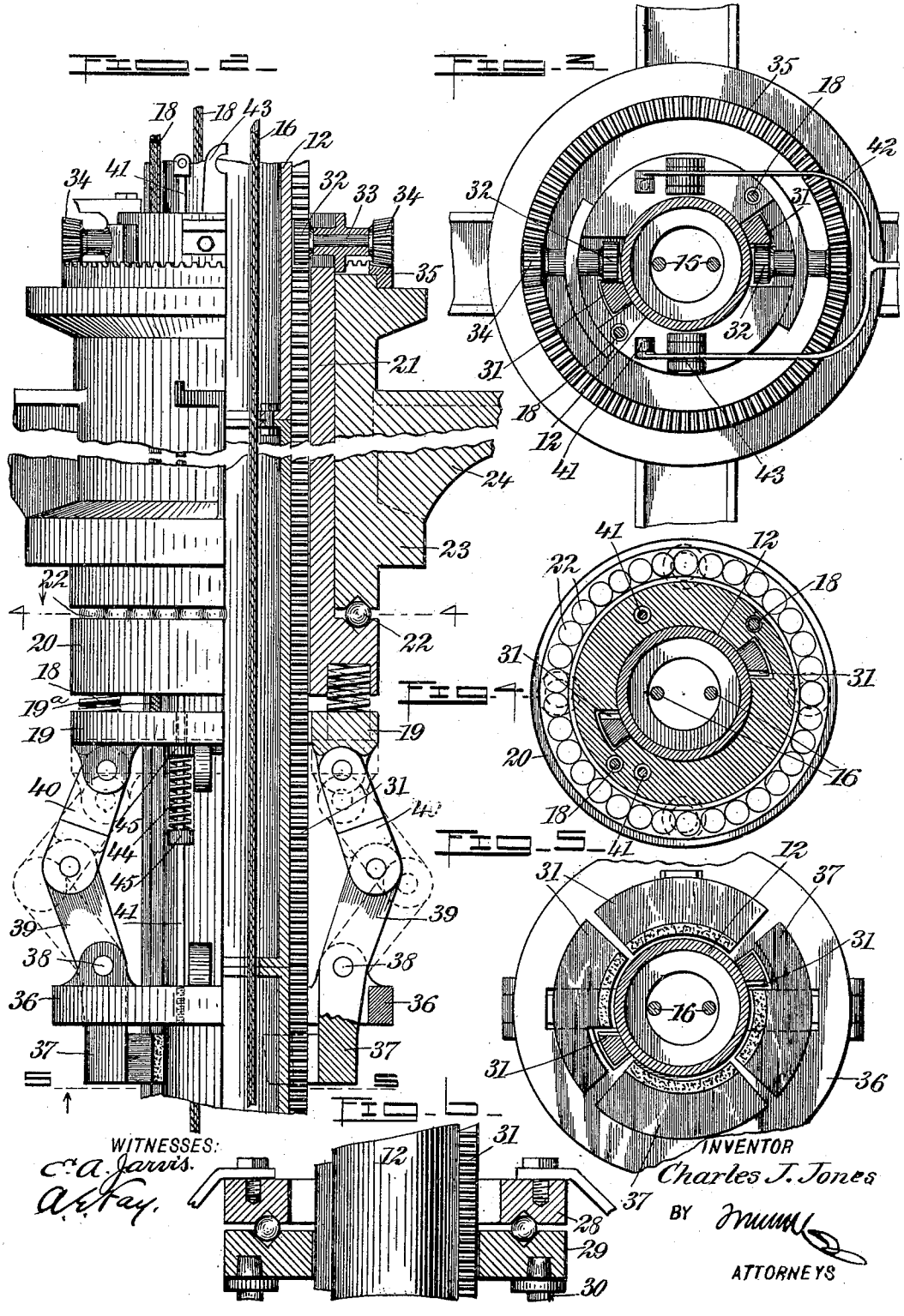
3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

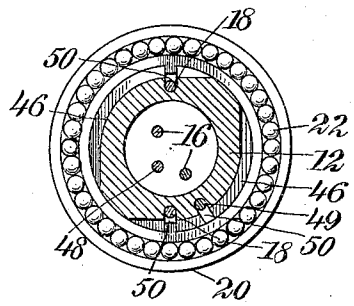

FIG. 9.

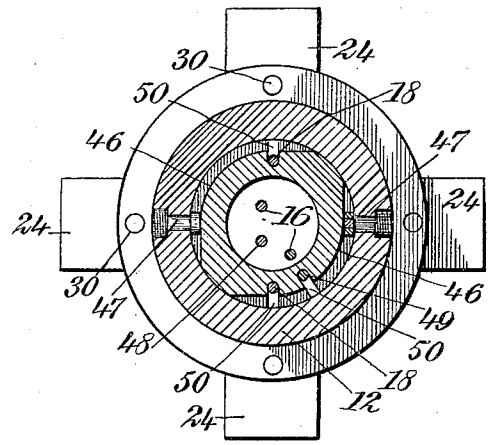

FIG. 8.

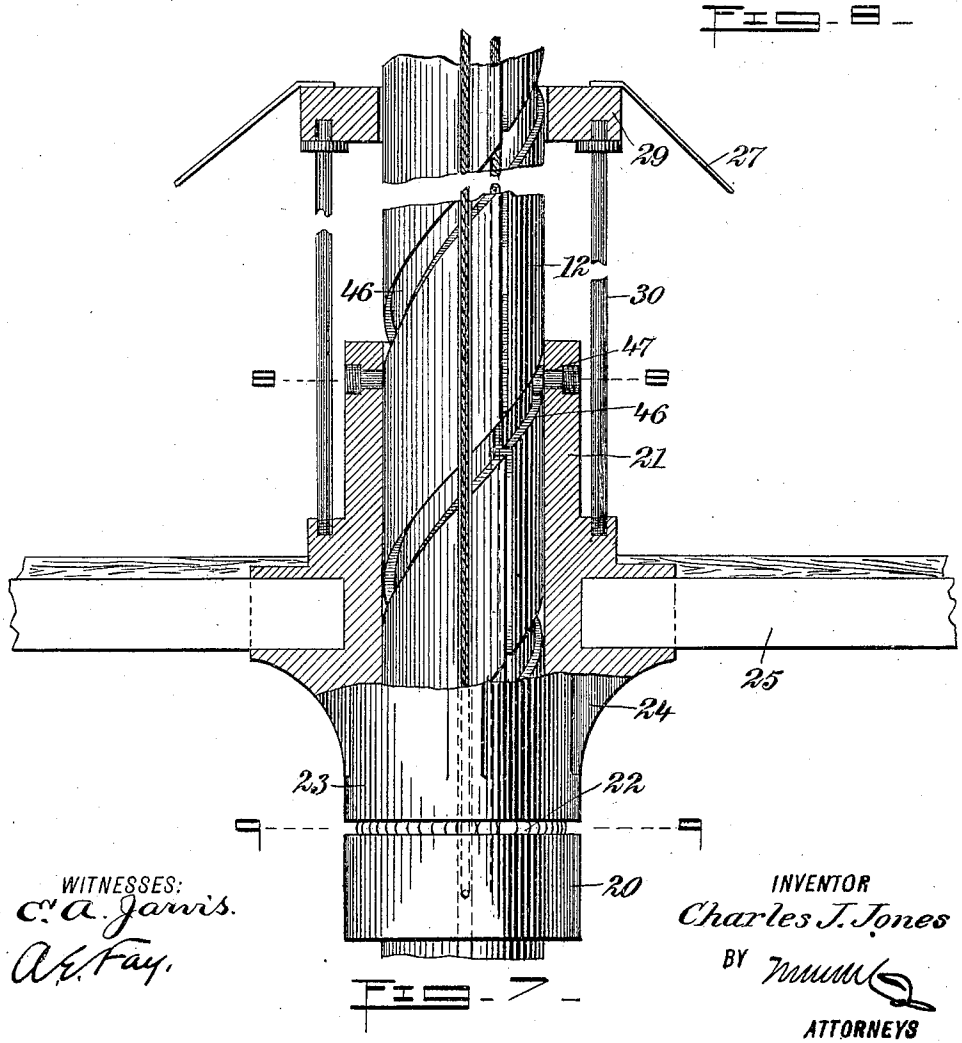

FIG. 7.

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UNITED STATES PATENT OFFICE.

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PLEASURE-WHEEL.

No. 799,986. Specification of Letters Patent. Patented Sept. 19, 1905.

Application filed October 18, 1904. Serial No. 228,964.

To all whom it may concern:

Be it known that I, CHARLES JOSIAH JONES, a citizen of the United States, and a resident of Imperial, in the county of Chase and State of Nebraska, have invented a new and Improved Pleasure-Wheel, of which the following is a full, clear, and exact description.

My invention relates to pleasure apparatus in the form of a rotating wheel.

The principal object of my invention is to provide a rotating wheel or platform which will be capable of holding a considerable number of persons and which will, when rotated, automatically rise and fall upon a mast or other support.

Further objects of my invention will appear in the course of the subjoined description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a preferred form of my invention, showing certain parts in section. Fig. 2 is a side elevation of the operating parts thereof, the right-hand half being shown in vertical central section. Fig. 3 is a horizontal sectional view on the line 3 3 of Fig. 1. Fig. 4 is a horizontal sectional view on the line 4 4 of Fig. 2. Fig. 5 is a horizontal sectional view on the line 5 5 of Fig. 2. Fig. 6 is a sectional view of a detail. Fig. 7 is a sectional view of a modification showing another means of accomplishing the desired result. Fig. 8 is a sectional view on the line 8 8 of Fig. 7, and Fig. 9 is a sectional view on the line 9 9 of Fig. 7.

It is to be understood that the principal part of my invention consists in providing an automatic means whereby the vertical motion of the platform will be converted in part into a rotary motion. Many ways of accomplishing this result may be used; but I prefer that illustrated in Figs. 1 to 6. In these figures 11 represents a foundation for a vertical mast 12, which may be of any size, but is preferably one hundred and fifty feet in length. At the top of the mast is a crown 13, to which is secured guys 14 in any common or desired manner for the purpose of steadying the device.

In the foundation 11 are journaled a pair of grooved wheels 15, which guide a pair of cables, chains, or ropes 16, which pass from the outside into the interior of the hollow standard 12 and upwardly to the top thereof, where they are taken out through the side and over grooved wheels 17 and downwardly upon the outside of the standard, as shown at 18. At the bottom these cables are connected to a sliding support 19. Upon the upper part of this support are a series of springs 19^a or other yielding supports, which hold a second sliding member 20. The upper part of this sliding member 20 consists of a cylinder 21, which extends upwardly around the standard 12 and guides the parts supported by it. Ball or roller bearings 22 are provided upon the member 20, and they support a rotating member 23, which, by means of brackets 24, in turn supports a platform or rotating wheel 25, on which the people are intended to be seated. This platform is of course provided with a fence or railing 26 around it and is supported on its outer edge by means of guys 27, which are connected to a collar 28, concentrically situated with respect to the standard 12. A second collar 29, having ball-bearing connection with the collar 28, is placed below it and is intended to support it and take the strain from it by means of upright struts or rods 30.

Upon two opposite sides of the standard 12 are located vertical racks 31, extending nearly the whole length of the standard and with which are adapted to mesh a pair of pinions 32, running on shafts 33, which are in turn provided with bevel-pinions 34 upon their outer ends. These shafts 33 are supported in bearings upon the top of the member 23, which also carries in rigid connection with it a circular rack 35, meshing with the pinions 34.

From the description so far given it will readily be understood that upon the operation of the cables 16 the platform will be either raised or lowered, as desired, and that motion will in turn cause the platform to be rotated about the standard 12 through the racks and pinions described, which will give a helical motion to every point on the platform 25.

36 is a sliding ring located below the sliding member 19 and provided with a series of brake-shoes 37, pivoted to the ring at 38 and having upwardly-extending arms 39 rigidly connected to them. These arms 39, with links 40, form toggle-joints which when the sliding member 19 is lowered with respect to the ring 36 will cause the brakes to be applied in the manner indicated in Fig. 2 by dotted lines.

In case the cables break the sliding member 19 will be permitted to expand away from the member 20 by means of the action of the springs 19^a, and that will cause the sliding member 19 to assume the position shown in dotted lines in Fig. 2 and apply the brakes. The ring 36 is prevented from descending with respect to the ring 20 by means of a rod 41, which extends upwardly through the interior of the parts 19, 20, and 21, where it is held in position by a lever 42, pivoted to a standard 43 on the platform. This rod is provided with a spring 44 and collars 45, which will allow the ring 36 to ascend with respect to the sliding member 19 whenever the lever 42 is operated for that purpose. It will thus be seen that both automatic and manually-operated means are provided for the manipulation of the brakes and that absolute safety is thus secured. My invention, however, is not confined to the particular apparatus illustrated in Figs. 1 to 6, but may be embodied in other constructions, one of which I have illustrated in Figs. 7, 8, and 9. In these figures the numerals 12, 16, 18, 20, 21, 22, 23, 24, 25, 27, 29, and 30 represent substantially the same elements that the same numbers represent in the other figures; but the standard 12 is provided with a pair of helical grooves or screw-threads 46 throughout the operative part of its length, and the member 21 is provided with a pair of studs 47, secured thereto in any desired manner and adapted to be received in and run in the grooves 46. It will be obvious that the raising and lowering of the platform 25 when this construction is used will have the same effect as that described above. I have also shown in these figures an extra cable 48, passing up through the center of the standard 12 and down on the outside at 49, and I have also shown a manner of permitting the cables to pass downwardly through the outer part of the standard 12 in grooves 50. This will provide a convenient and safe arrangement of the cables, and the extra cable is intended to be just loose enough so that no strain will come on it during the ordinary operation of the device; but in case the other cables break it will be in position to receive the weight of the platform and its contents. It will of course be understood that these last two features may be employed with the modifications shown in the first six figures, as well as with that shown in Fig. 7, and that they can be used with any modifications which may be employed in place of those illustrated in the drawings.

It is believed that a novel and interesting form of pleasure device has been described which will give a double motion to the people upon the platform, which will be capable of rapid operation with perfect safety, and which will be suitable for all sorts of pleasure-resorts.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A pleasure apparatus comprising a supporting-standard, a platform thereon, means for giving said platform a helical motion, a brake, and automatic means and manually-operated means for applying said brake.

2. The combination of a standard, a rack thereon, a pulley at the upper end of the standard, a platform, a flexible connection passing over the pulley and through the standard for supporting the platform, a pinion supported by the platform and meshing with the rack, and means for transmitting motion from said pinion to rotate the platform.

3. The combination of a standard, a rack thereon, a platform, a pinion connected with the platform and meshing with the rack, means for transmitting motion from the pinion to rotate the platform, and means for raising the platform comprising a flexible connection passing through the standard.

4. The combination of a standard, a rack thereon, a platform, means for moving the platform along the standard, a bearing on the platform, a shaft in said bearing, two pinions on said shaft, and a circular rack on the platform engaging one of said pinions, the other pinion engaging the rack on the standard.

5. The combination of a standard, a platform, means for moving the platform on the standard, a rotatable element supported by the platform for engaging the standard, means on the standard for engaging said element to give it a rotary motion and means supported by the platform for transmitting the motion of said element to the platform.

6. The combination of a standard, a rack thereon, a platform, a pinion supported by said platform and meshing with said rack, and means for transmitting motion from said pinion to rotate the platform.

7. The combination of a standard, a rack thereon, a platform, a circular rack on said platform, two pinions, one meshing with each of said racks, a bearing on the platform, and a rigid connection between said pinions located in said bearing.

8. The combination of a standard, a rack, a platform, a pinion supported by said platform and meshing with said rack, means for transmitting motion from said pinion to said platform, and means for moving the platform along the standard.

9. The combination of a standard, a rack, a sliding support on the rack, a sliding member yieldingly supported on said support, a platform connected with said support, a pinion supported by the platform and meshing with said rack, means for transmitting motion from the pinion to the platform, and means for moving the platform along the standard.

10. The combination of a standard, a rack,

a sliding support on the rack, a sliding member yieldingly supported on said support, a platform connected with said support, a pinion supported by the platform and meshing with said rack, means for transmitting motion from the pinion to the platform, means for moving the platform along the standard, and means on the sliding support for gripping the standard.

11. The combination of a standard, a rack, a sliding support on the rack, a sliding member yieldingly supported on said support, a platform connected with said support, a pinion supported by the platform and meshing with said rack, means for transmitting motion from the pinion to the platform, means for moving the platform along the standard, means on the sliding support for automatically gripping the standard when the platform-moving means is disconnected from the platform, and manually-operated means for operating said gripping means.

12. In a pleasure apparatus, the combination of a vertically-movable platform, a collar, tie-rods extending from said collar to said platform, a second collar supporting said first-mentioned collar, a bearing between the collars, and a support for the last-mentioned collar, said support being movable with the platform.

13. In a pleasure apparatus, the combination of a platform, a collar, means for supporting the platform from the collar, a second collar supporting the first-mentioned collar, and a support for the last-mentioned collar, said support being movable with the platform.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES JOSIAH JONES.

Witnesses:
A. H. RADELL,
G. K. WENTWORTH.