No. 894,386. PATENTED JULY 28, 1908.

A. KOLSKY.

CAROUSEL.

APPLICATION FILED AUG. 2, 1907.

2 SHEETS—SHEET 1.

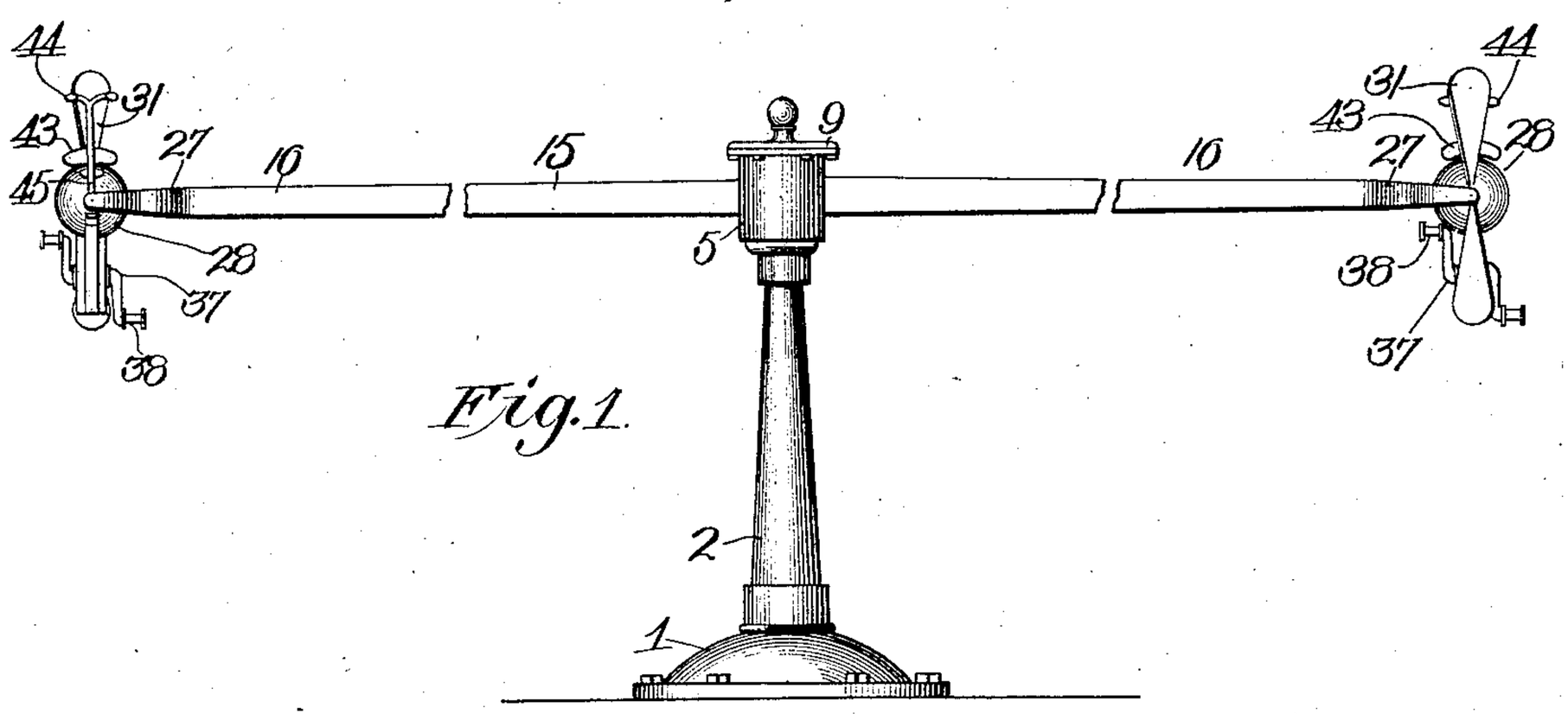

Fig. 1.

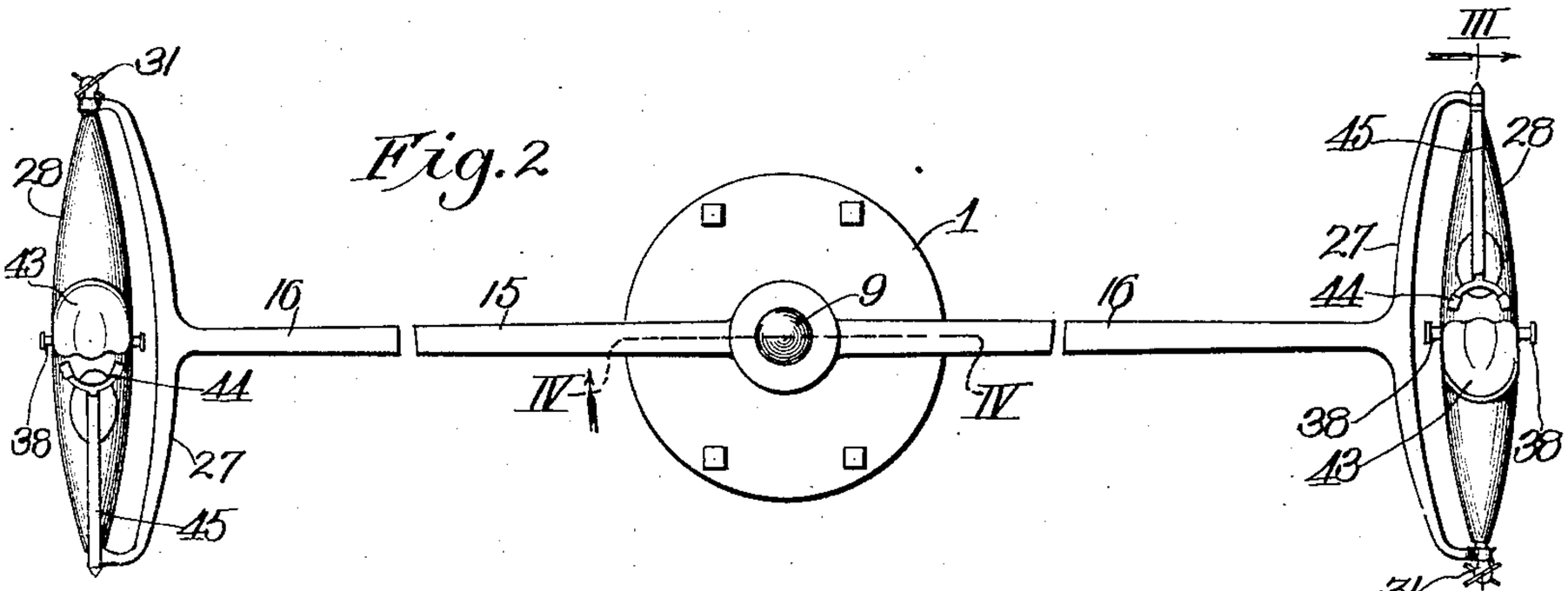

Fig. 2

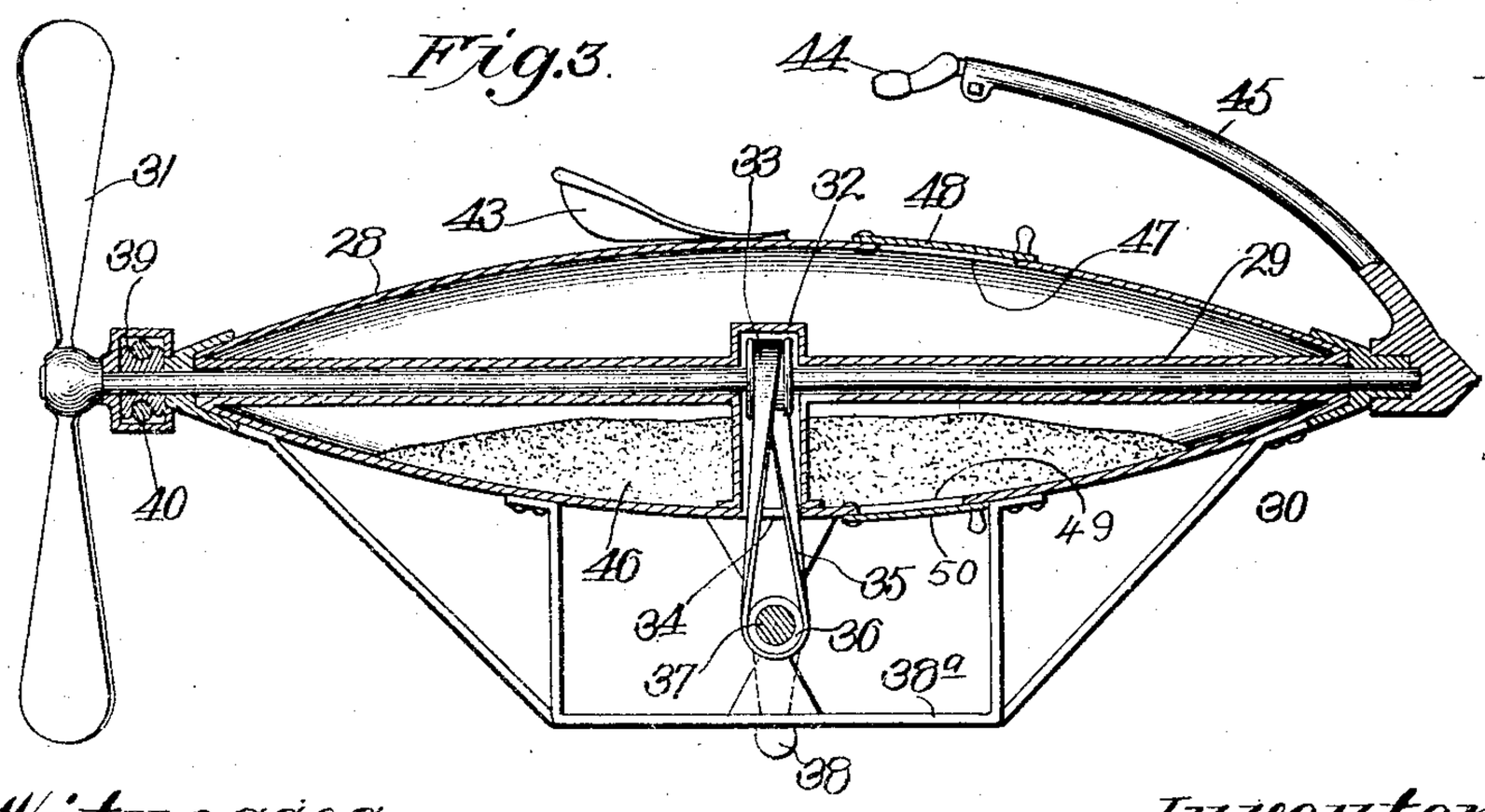

Fig. 3.

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Fig. 4

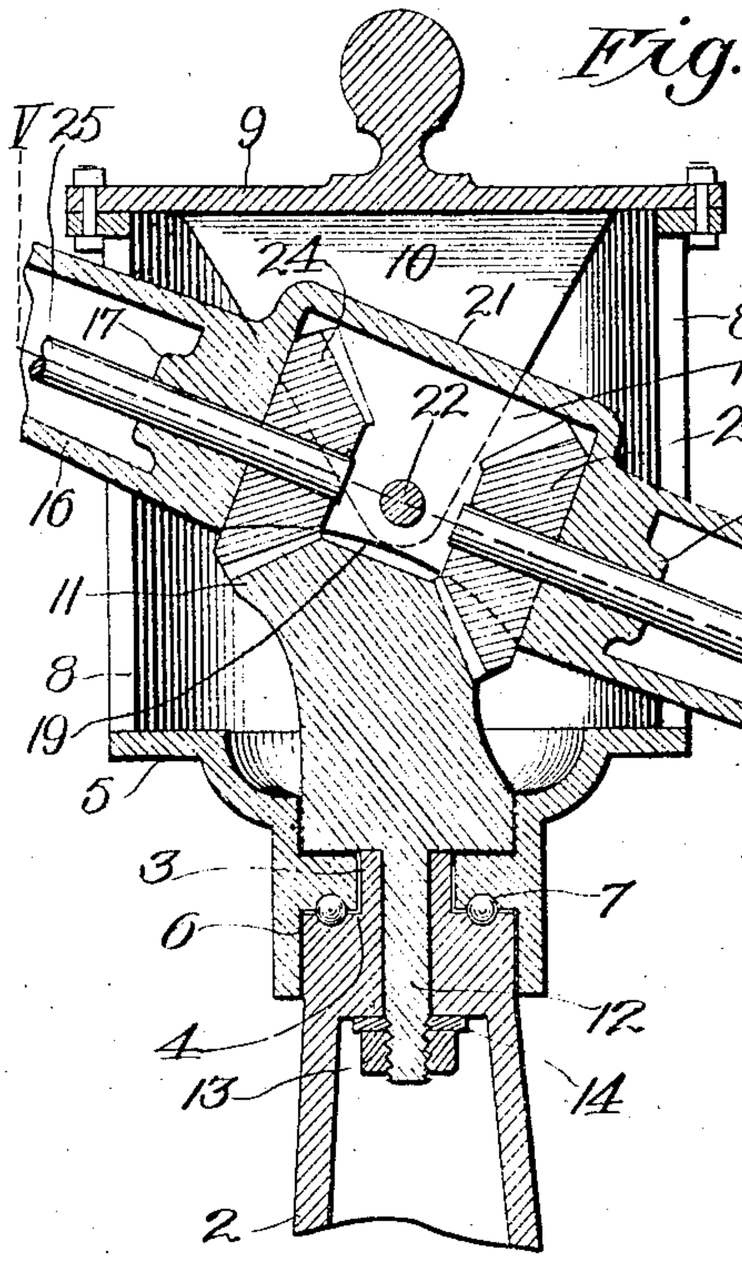


Fig. 6

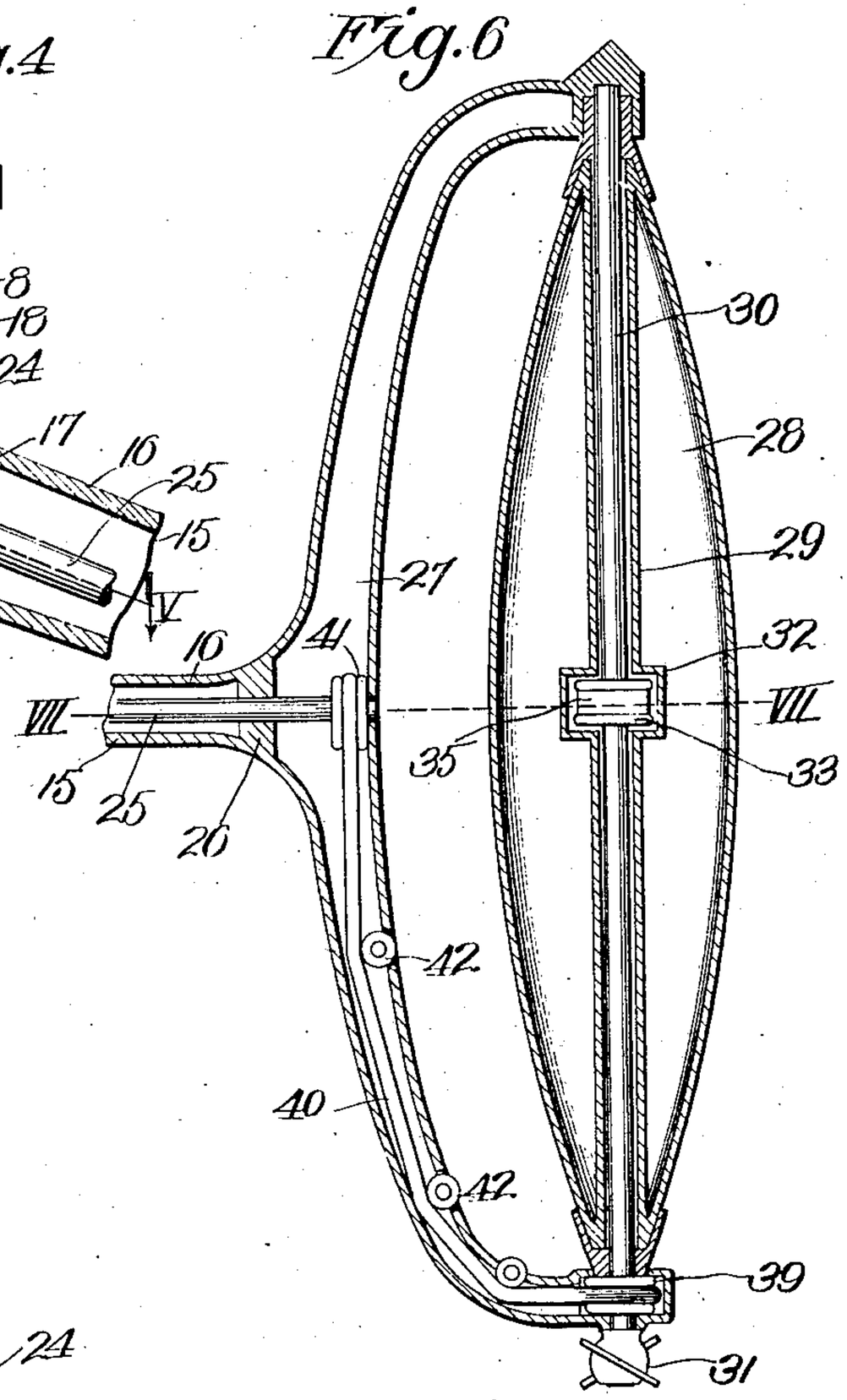


Fig. 5

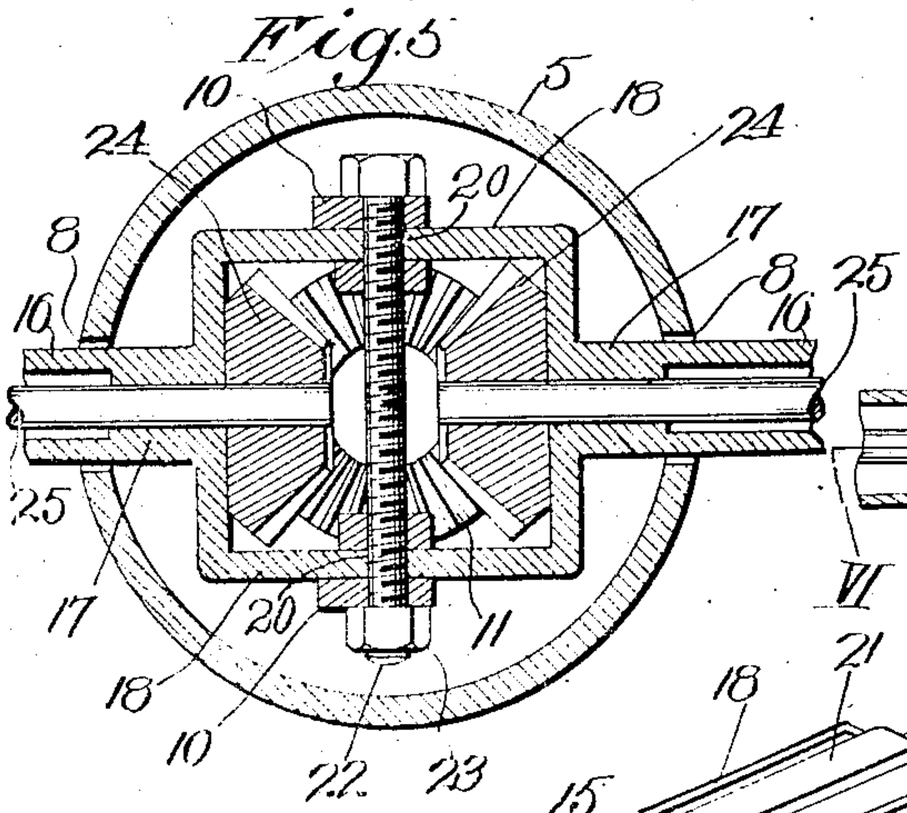
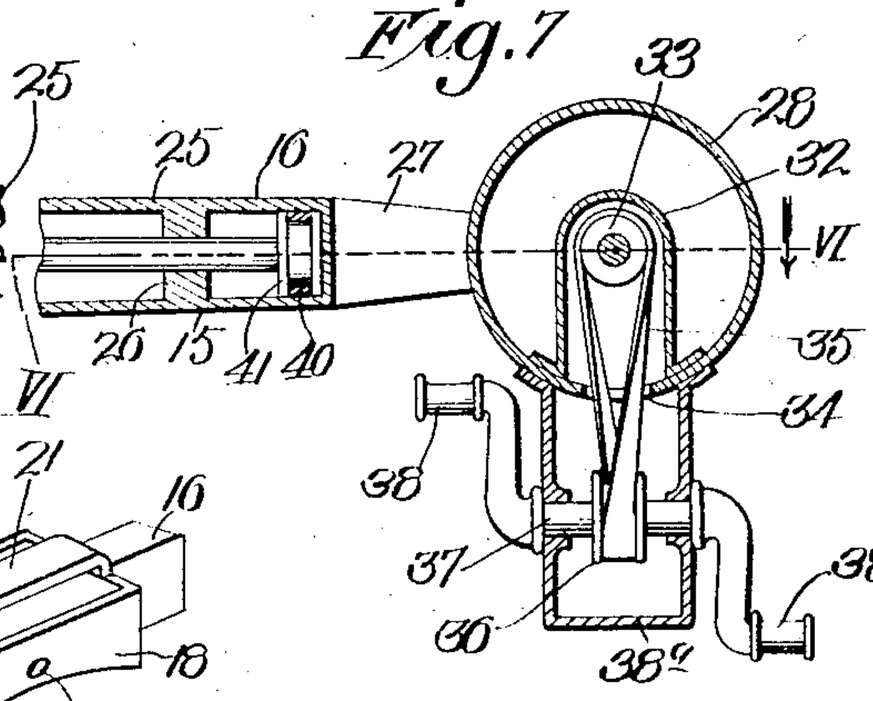


Fig. 7



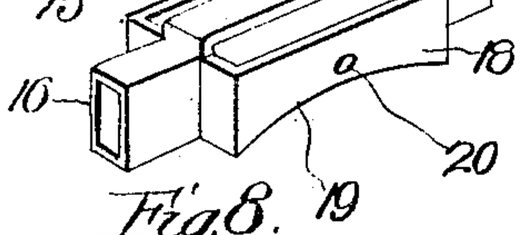


Fig. 8.

Witnesses
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UNITED STATES PATENT OFFICE.

ANTHONY KOLSKY, OF KANSAS CITY, MISSOURI.

CAROUSEL.

No. 894,386. Specification of Letters Patent. Patented July 28, 1908.

Application filed August 2, 1907. Serial No. 386,823.

To all whom it may concern:

Be it known that I, ANTHONY KOLSKY, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Carousels, of which the following is a specification.

This invention relates to carousels and more especially to that type to be propelled by one or more of the occupants, and my object is to produce a device of this character having a beam equipped at its ends with cars or supports and means to support the beam centrally and cause it to impart circular and undulating movement to the cars or supports.

With this general object in view this invention consists in certain novel and peculiar features of construction and organization as hereinafter described and claimed; and in order that it may be fully understood reference is to be had to the accompanying drawings, in which:—

Figure 1, is a side elevation of a machine embodying my invention. Fig. 2, is a top view of the same. Fig. 3, is a section on the line III—III of Fig. 2, but on a larger scale. Fig. 4, is an enlarged central vertical section taken on the line IV—IV of Fig. 2. Fig. 5, is a section taken on the line V—V of Fig. 4. Fig. 6, is a section on the line VI—VI of Fig. 7. Fig. 7, is a section on the line VII—VII of Fig. 6. Fig. 8, is a detail perspective view of part of the beam forming part of the machine.

In the said drawings, 1 indicates a suitable base adapted to be secured firmly upon the ground or other support and 2 is a hollow tower secured reliably upon the base and provided with a reduced upper end 3 to form an annular shoulder 4.

5 is a hollow head journaled upon the upper end of the tower and internally enlarged as at 6 to receive the upper end of the tower including its reduced portion, balls 7 being arranged between the top of the body portion of the tower and the hollow head to permit the latter to revolve with a minimum of friction. The head is provided with vertical slots 8 at diametrically opposite points, and with a removable cap 9 provided with depending ears 10, and vertically below said ears is a stationary gear-wheel 11 disposed at an angle and resting upon the reduced portion 3 of the tower and provided with a stem 12 depending through the top of the tower, a nut 13 engaging the lower threaded end of said stem to clamp the oblique gear-wheel rigidly in place, a washer 14 being preferably interposed between the nut and the top of the tower.

15 indicates a beam extending through the slots 8 of the head and consisting of alined tubular portions 16 having their inner ends contiguous to opposite sides of gear-wheel 11 and closed at such ends as at 17.

18 indicates parallel side portions connecting the inner ends of portions 16 and concaved at their lower sides as at 19 so as to clear gear-wheel 11, and provided at diametrically opposite points in a plane intersecting the axis of portions 16 with bearing holes 20, the inner ends of the portions 16 being furthermore braced by the bridge portion 21 overhanging the space between the side portions 18.

22 is a transverse pivot-bolt extending through holes 20 and through the depending ears 10 at the outer sides of the side portions 18, and 23 is a nut engaging the bolt to prevent any possibility of it working loose or becoming dislocated.

24 indicates bevel-gears engaging the oblique gear 11 and secured rigidly on the inner ends of a pair of shafts 25 journaled in the ends 17 of portions 16 and in the cross pieces 26 at the outer ends of said portions, the said portions terminating outward of cross pieces 26 in tubular forks 27 forming swivel supports for the cars 28 of cigar-balloon form. The cars are provided longitudinally with tubes 29 through which extend shafts 30 journaled at their ends in the tines of the forks and provided at their rear ends with propellers 31. The tubes 29 are formed centrally with inverted U-shaped housings 32 for pulleys 33 on shafts 30, and extending downward from said pulleys through openings 34 are belts 35 engaging pulleys 36 on crank shafts 37 journaled in frames 38^a depending from the bodies of the cars, the crank-shafts being provided with pedals 38, so that rotatable movement of the latter shall impart like movement to longitudinal shafts 30 and hence to the propellers.

39 are pulleys secured on the rear ends of shafts 30 within the rear ends of the forks 27, and 40 are flexible belts connecting pulleys 39 with pulleys 41 on shafts 25, the belts 40 being guided within the tubular forks by anti-friction rollers 42.

The balloon-shaped cars are provided with

seats 43, and the children seated astride the seats on said cars maintain their position by grasping the handles 44 of arms 45 projecting rearwardly from the front ends of the forks. To lend stability to the structure and to hold the cars upright they are preferably ballasted with sand or solder 46, introduced through openings 47 normally covered by doors 48. The sand may be removed through similar openings 49 in the bottoms of the cars, doors 50 controlling said openings.

In practice a child upon one of the seats 43, revolves the pedals contiguous thereto and imparts rotary movement to shaft 30, this action of course revolving the propeller on such shaft, and through the instrumentality of the latter and the flexible connection 40, revolving the connecting shaft 25. The revolution of this shaft imparts like movement to its bevel-gear 24 and causes said gear to travel around upon the stationary gear 11. As a result of this revolving movement thus imparted to the beam first one end and then the other of the same is elevated and depressed, the undulatory movement of the beam being of course imparted to the cars, it being of course understood that through the connection of the beam with the depending lugs of the cap 9, the head 5 revolves upon the tower. It will be seen that because of the peculiar configurations of the cars and their equipment with propellers, they closely simulate air-ships.

From the above description it will be apparent that I have produced a carousel embodying the features of advantage enumerated as desirable in the statement of the object of the invention, and I wish it to be understood that I reserve the right to make such changes as properly fall within the spirit and scope of the appended claims.

Having thus described the invention what I claim as new and desire to secure by Letters Patent, is:—

1. A carousel, comprising an obliquely-disposed gear wheel immovably supported, a part rotatable in a plane at an angle to the face of the gear wheel, a beam pivoted to said rotatable part and adapted to operate vertically, a shaft extending longitudinally of the beam and provided at its inner end with a gear wheel engaging the first-named gear wheel, cars or supports carried at the ends of the beam, and means carried by said cars or supports for imparting rotary movement to said shaft.

2. A carousel, comprising a tower, an obliquely-disposed gear-wheel secured rigidly at the upper end of the tower, a horizontally rotatable head, a beam bridging said gear-wheel and pivoted to said rotatable head to operate vertically, cars or supports carried at the ends of said beam, a shaft arranged longitudinally of and carried by the beam, a gear-wheel carried by said shaft and engaging the first-named gear-wheel, and means for imparting rotary movement to said shaft.

3. A carousel, comprising a tower, a vertically-slotted head journaled thereon, an obliquely-disposed gear-wheel within the head and rigidly secured at the upper end of the tower, a beam extending through the slotted head above the gear-wheel and pivotally supported for vertical movement from the head, cars or supports carried by the beam, a shaft arranged longitudinally of and carried by the beam, a gear-wheel secured to the inner end of said shaft and meshing with the first-named gear-wheel, and means carried by the car for rotating said shaft.

4. A carousel, comprising a tower, an obliquely-disposed gear-wheel surmounting and rigid with the tower, a vertically slotted head journaled upon the tower and receiving said gear-wheel, a beam extending through the slotted head above the gear-wheel and pivotally supported from and within the former and having its ends forked, cars or supports mounted in the forked ends of the beam, a suitably journaled shaft carried by one of the cars or supports, a shaft arranged longitudinally of and carried by the beam and provided at its inner end with a gear-wheel meshing with the first-named gear-wheel, and means carried by one of the cars or supports for revolving said shaft.

5. A carousel, comprising a tower, an obliquely-disposed gear-wheel surmounting and rigid with the tower, a vertically slotted head journaled upon the tower and receiving said gear-wheel, a beam extending through the slotted head above the gear-wheel and pivotally supported from and within the former and having its ends forked, cars or supports mounted in the forked ends of the beam, a shaft arranged longitudinally of and journaled in one of the cars or supports, a shaft arranged longitudinally of the beam and equipped at its inner end with a gear-wheel meshing with the first-named gear-wheel, means for revolving the shaft carried by the car or support, and means for transmitting motion from said shaft to the shaft equipped with the gear-wheel.

6. A carousel, comprising a tower, an obliquely-disposed gear-wheel surmounting and rigid with the tower, a vertically slotted head journaled upon the tower and receiving said gear-wheel, a beam extending through the slotted head above the gear-wheel and pivotally supported from and within the former and having its ends forked, cars or supports mounted in the forked ends of the beam, a shaft arranged longitudinally of and journaled in one of the cars or supports, a shaft arranged longitudinally of the beam and equipped at its inner end with a gear-wheel meshing with the first-named gear-wheel, means for revolving the shaft carried

by the car or support, and a flexible power-transmitting connection between the shaft carried by the car or support and the shaft equipped with the gear-wheel.

7. A carousel, comprising a tower, an obliquely-disposed gear-wheel surmounting and rigid with the tower, a vertically slotted head journaled upon the tower and receiving said gear-wheel, a beam extending through the slotted head above the gear-wheel and pivotally supported from and within the former and having its ends forked, cars or supports mounted in the forked ends of the beam, a shaft arranged longitudinally of and journaled in one of the cars or supports, a shaft arranged longitudinally of the beam and equipped at its inner end with a gear-wheel meshing with the first-named gear-wheel, a flexible connection between the shaft carried by the car or support and the shaft equipped with the gear-wheel, a crank-shaft carried by the car or support and geared to the other shaft carried thereby, a saddle surmounting the car or support, and a handle-bar also carried by said car or support forward of the saddle.

In testimony whereof I affix my signature, in the presence of two witnesses.

ANTHONY KOLSKY.

Witnesses:
H. C. RODGERS,
G. Y. THORPE.