No. 840,299. PATENTED JAN. 1, 1907.

J. E. CISCO.

AMUSEMENT DEVICE.

APPLICATION FILED APR. 11, 1906.

3 SHEETS—SHEET 1.

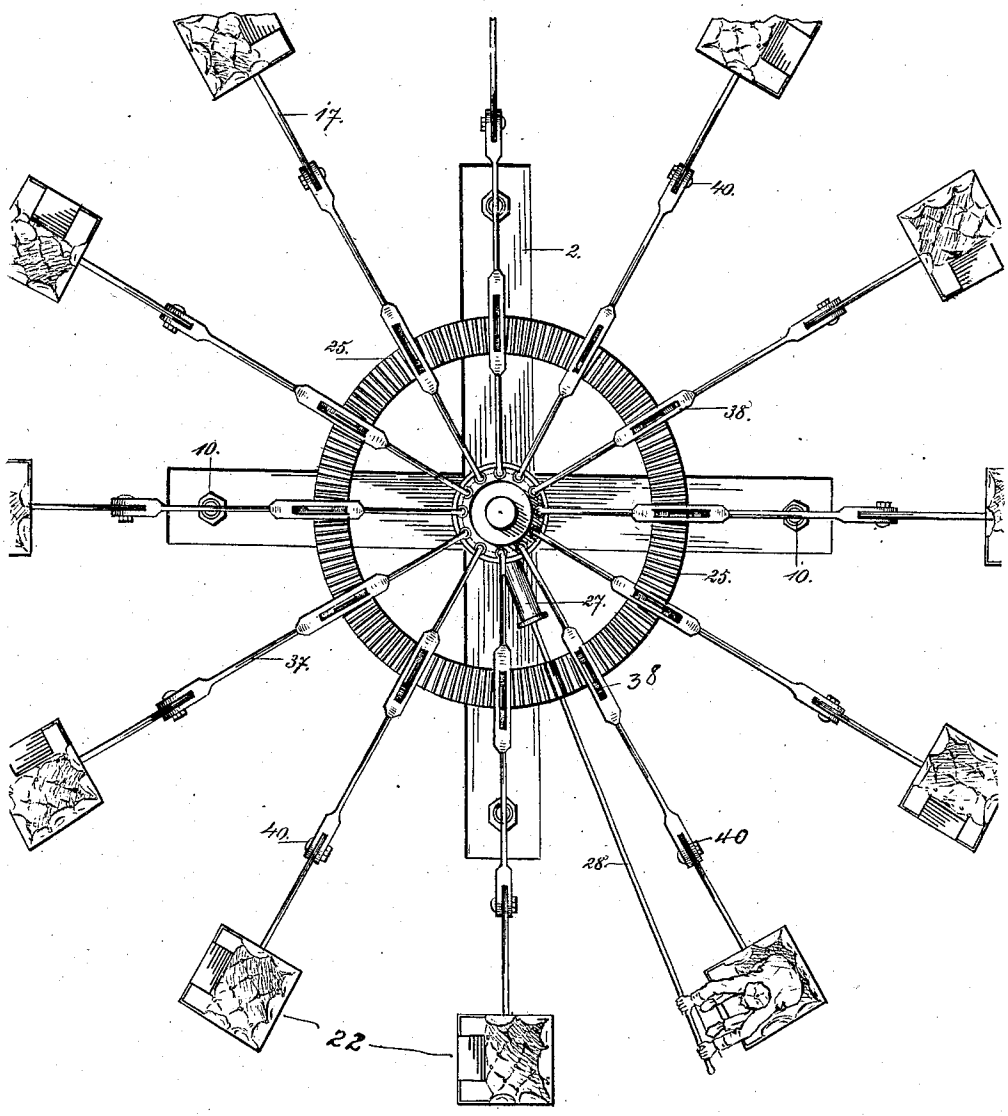

Fig. 1.

Witnesses:
A. H. Rabsag.
H. N. Butler.

Inventor:
James E. Cisco
by A. C. Ewart & Co.
Attorneys.

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3 SHEETS—SHEET 2.

Fig. 2.

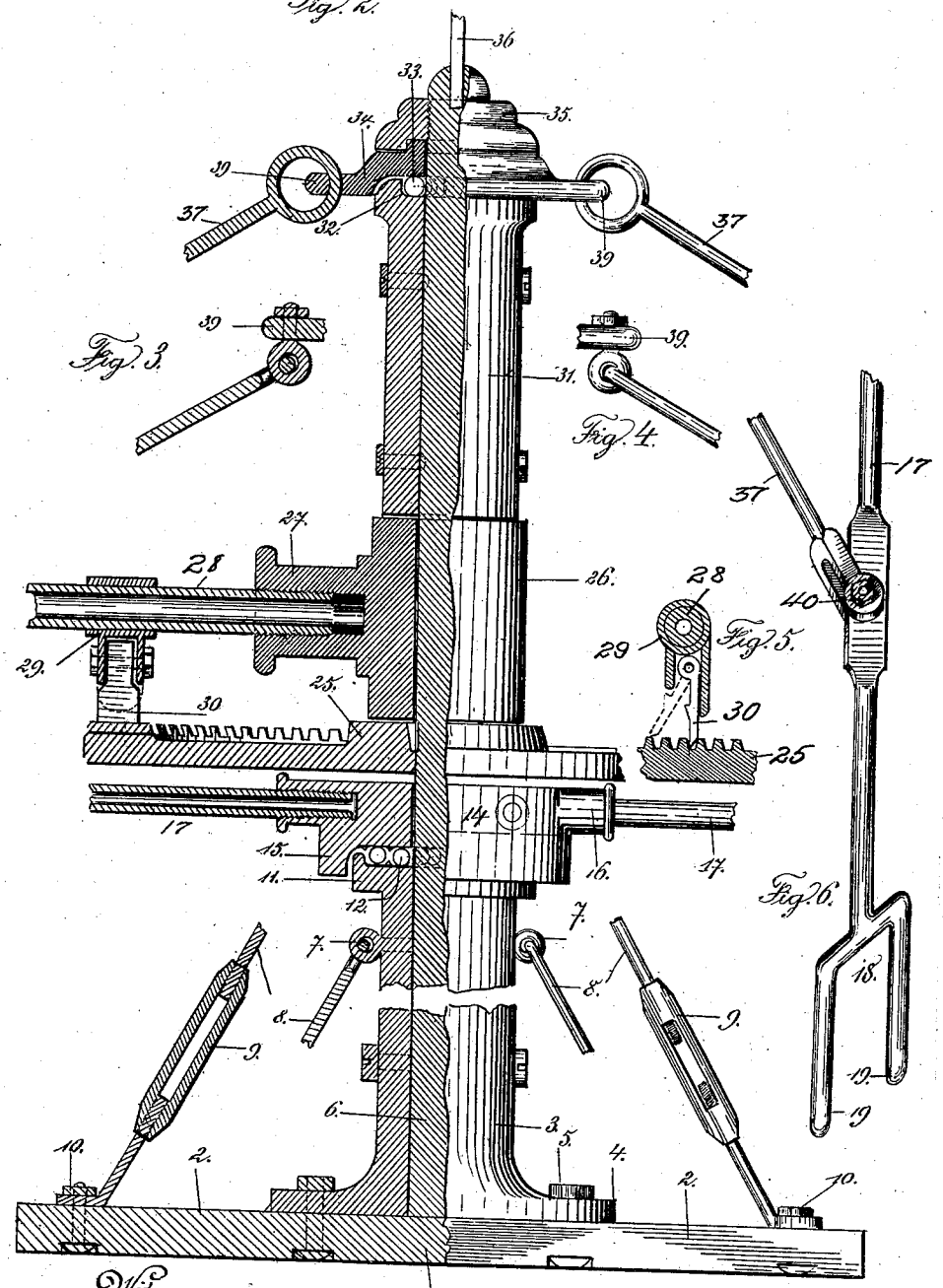

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Witnesses:
A. H. Rabsag,
R. F. Butler.

Inventor:
James E. Cisco.
by H. C. Ewart & Co.
Attorneys.

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3 SHEETS—SHEET 3.

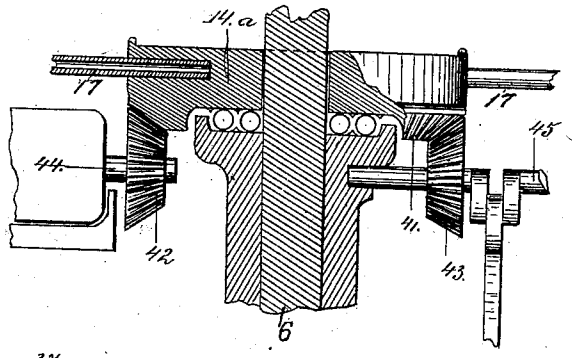

Fig. 7.

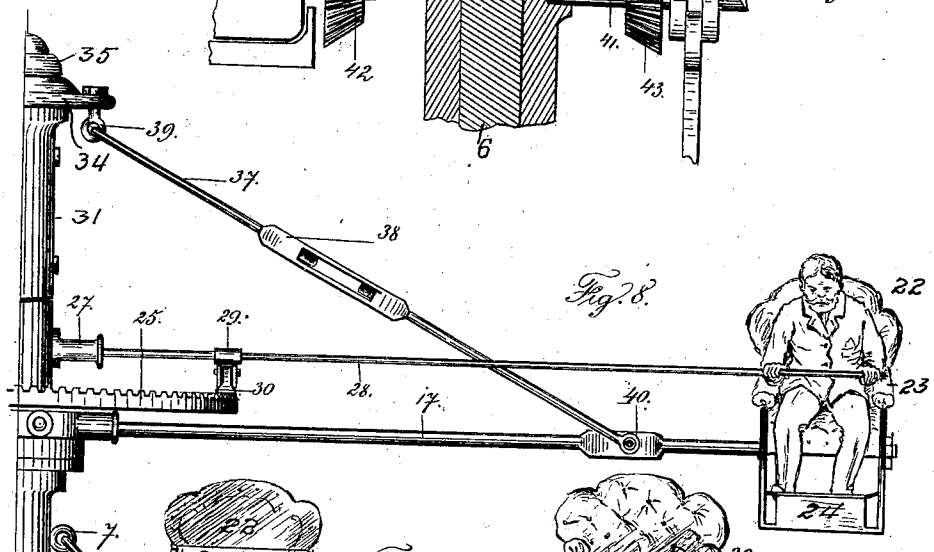

Fig. 8.

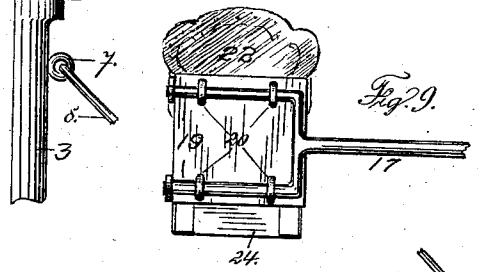

Fig. 9.

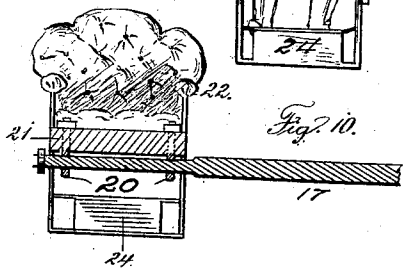

Fig. 10.

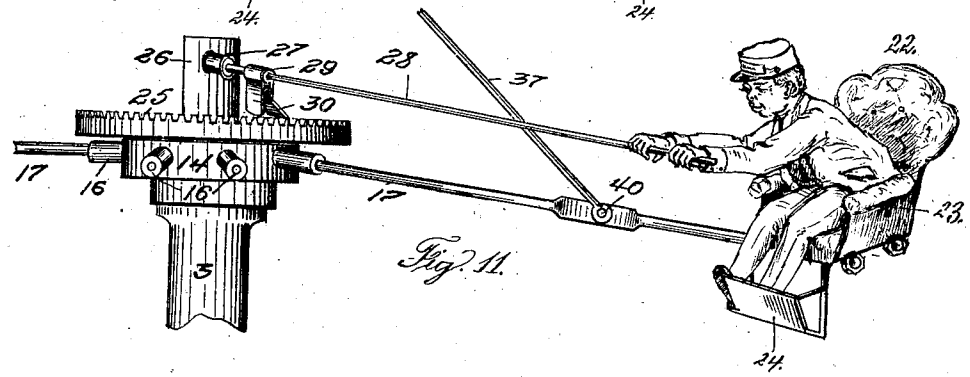

Fig. 11.

Witnesses:
A. H. Ratsch,
R. H. Burke.

Inventor:
James E. Cisco
by R. C. Ewert & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

JAMES E. CISCO, OF ALLEGHENY, PENNSYLVANIA, ASSIGNOR OF ONE-FOURTH TO J. J. BULLITT AND GEORGE T. BULLITT, OF PITTSBURG, PENNSYLVANIA.

AMUSEMENT DEVICE.

No. 840,299. Specification of Letters Patent. Patented Jan. 1, 1907.

Application filed April 11, 1906. Serial No. 311,118.

To all whom it may concern:

Be it known that I, JAMES E. CISCO, a citizen of the United States of America, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Amusement Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in amusement devices; and the invention relates more particularly to that type of amusement device known as a "carousel" or "merry-go-round."

The primary object of this invention is to provide a novel form of amusement device for carrying a plurality of persons over a circuitous route or path, the device being easily and quickly operated by a person carried by the device.

Another object of this invention is to provide a simple and inexpensive amusement device that may be operated from a suitable source of energy, the device being constructed whereby it may be easily and quickly disassembled and conveniently transported from one place to another.

A further object of this invention is to provide a device that can be readily used as an exercising apparatus or training-machine, the manner of manually operating the device being similar to the rowing of a boat. Thereby the device may be readily used for training boat crews or as an exerciser.

A still further object of this invention is to provide an amusement device which can be constructed upon a miniature scale and used as a toy.

With the above and other objects in view, which will more readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described and claimed, and, referring to the drawings accompanying this application, like numerals of reference designate corresponding parts throughout the several views, in which—

Figure 1 is a plan of my improved amusement device. Fig. 2 is a vertical sectional view of a portion of the same, partly in side elevation. Figs. 3 and 4 are detail views of a portion of the device, illustrating a slightly-modified form of construction. Fig. 5 is a detail sectional view of a portion of the device, illustrating the spring-held tooth and a portion of a rack used in connection with the device. Fig. 6 is a fragmentary perspective view of one of the outriggers of the device. Fig. 7 is a fragmentary sectional view of the device, illustrating two modes of operation. Fig. 8 is a fragmentary side elevation of the device. Fig. 9 is a bottom plan of one of the carriages or chariots of the device. Fig. 10 is a vertical sectional view of the same. Fig. 11 is a detail perspective view of a portion of the device, illustrating the mode of operation.

To put my invention into practice, I construct my improved device of a base-plate 1, having radially-disposed extensions 2. The plate is provided with a central tubular pedestal 3, said pedestal being flanged, as at 4, and secured to the base-plate 1, as at 5. In the pedestal 3 is mounted a mast or center pole 6, which serves as the vertical axis of my improved device. The pedestal 3 adjacent to its upper end is provided with eyelets 7, to which are connected rods 8 8, having turnbuckles 9 9. The lower ends of the rods are secured to the extensions 2 of the base-plate 1, as at 10, to brace and steady the upper end of the pedestal 3. The upper end of the pedestal 3 is provided with an annular flange and rim 11 to support ball-bearings 12. Upon the upper end of the pedestal and surrounding the mast 6 is mounted a revoluble head 14, said head resting upon the ball-bearings 12 and being provided with a depending flange 15, by which it is guided upon the upper end of the pedestal 3. The head 14 is provided with a plurality of radially-disposed sleeves 16, each of which is provided with a tubular outrigger 17. The outriggers upon their outer ends are bifurcated, as at 18, to form arms 19 19. The arms 19 19 of each outrigger are adapted to engage in depending eyelets 20 20, carried by the seat 21 of a chair or chariot 22. The chairs or chariots are of an ornamental design and besides having arm-rests 23 are provided with foot-rests 24.

Keyed or otherwise fixed to the mast 6 directly above the head 14 is a circular rack 25, and revolubly mounted upon the mast 6 above said rack is a sleeve 26, carrying an

outwardly-extending boss 27. In the boss is mounted an actuating arm or rod 28, which extends outwardly to the chair or chariot 22. The arm is provided with a depending bracket 29, in which is mounted a spring-pressed tooth 30, adapted to engage said rack, as illustrated in Figs. 1 and 5 of the drawings. Secured to the mast 6 above the sleeve 26 is a collar 31, having a recess 32 formed in its upper end to receive ball-bearings 33. Mounted upon said ball-bearings and surrounding the upper end of the mast is a cap 34, said cap being retained upon the ball-bearings by a lock nut or cap 35, which is threaded upon the upper end of the mast 6. The upper end of the mast is provided with a flagstaff 36.

To support the outer ends of the outriggers 17, I use connecting-rods 37, carrying turnbuckles 38. The connecting-rods 37 are connected to the cap 34, as at 39, also to the outriggers 17, as at 40.

Operation: Assuming that the chairs or chariots 22 of my improved amusement device have all been loaded with persons, the person occupying the chariot or chair 22 adjacent to the actuating rod or arm 28 grips said arm and moves the same back and forth in a horizontal plane similar to the operation of rowing a boat. In the forward movement of the arm or rod 28 the spring-pressed tooth 30 is adapted to travel over the teeth of the rack 25; but when attempting to pull rearwardly upon the arm or rod 28 the spring-pressed tooth engaging the rack holds said arm, in consequence of which the chair or chariot will be drawn toward the arm or rod 28, at which time a fresh grip can be taken by the rod or arm 28 upon the circular rack and the revolving movement of the chairs or chariots continued. In some instances each chair or chariot may be provided with an actuating rod or arm, whereby each person riding upon the amusement device can contribute toward propelling the device.

In Fig. 7 of the drawings I have illustrated a slight modification wherein a head 14^a is provided with a circular rack 41, and engaging said rack are beveled gear-wheels 42 and 43. The wheel 42 may be mounted upon the armature-shaft 44 of a motor, while the wheel 43 can be mounted upon the crank-shaft 45 of an engine. By the construction shown in Fig. 7 of the drawings the amusement device can be electrically operated or operated from a suitable source of energy, such as a steam or gas engine.

The amusement device is constructed of strong and durable metal, and while I have herein described the preferred manner of constructing the device it is obvious that such changes as are permissible by the appended claims may be resorted to without departing from the spirit and scope of the invention.

What I claim, and desire to secure by Letters Patent, is—

1. In a swing of the character described, the combination of a pedestal, a supporting-base therefor having a plurality of radially-extending arms, a head mounted to revolve on the pedestal and provided with a plurality of circumferentially-arranged sleeves, a mast arranged in the pedestal and head, a circular rack keyed to said mast, a sleeve revolubly mounted on the mast above said rack, horizontal outriggers secured at their inner ends in the sleeves of said head, and provided with forked outer ends, seats secured to said forked ends, an actuating-rod secured to said sleeve and carrying a dog to engage said circular rack, and tie-rods connecting the pedestal to said radially-extending arms.

2. In a swing of the type described, the combination of a supporting-base provided with a plurality of radially-extending arms, a pedestal mounted centrally of the base and provided with a ball-race at its upper end, a head mounted on the pedestal, and balls interposed between the head and the pedestal in said ball-race, a plurality of horizontally-extending outriggers secured at their inner ends in said head, seats carried by the outer ends of said outriggers, tie-rods connecting said pedestal to said radially-extending arms, a mast mounted in the pedestal and head, a circular rack keyed to said mast, a sleeve revoluble on the mast above the rack, an actuating-arm secured at its inner end to said sleeve, and carrying a dog engaging said rack, a collar secured to the mast above said sleeve and having a ball-race in its upper end, a retaining-cap mounted above said collar and resting on balls in said race, and tie-rods connecting said retaining-cap to the outriggers, substantially as described.

3. In a swing of the type described, the combination of a supporting-base, a pedestal thereon, a head mounted on the pedestal, and balls interposed between the head and the pedestal, tie-rods connecting the pedestal to the base, a plurality of outriggers connected at their inner ends to said head, seats carried by said outriggers at their outer ends, a mast revoluble in the head and pedestal, a circular rack fixed in said mast, a sleeve revoluble on the mast above the rack, an actuating-arm secured to said sleeve and carrying a pivoted dog to engage the rack, a retaining-cap carried by the mast, and tie-rods connecting the retaining-cap to the outriggers for supporting the latter intermediate their ends, substantially as described.

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

JAMES E. CISCO.

Witnesses:
H. C. EVERT,
E. E. POTTER.