Dec. 25, 1923. 1,478,743

K. F. W. JAENECKE

ATTACHMENT FOR CARROUSELS

Filed Jan. 26, 1921

Fig. 1.

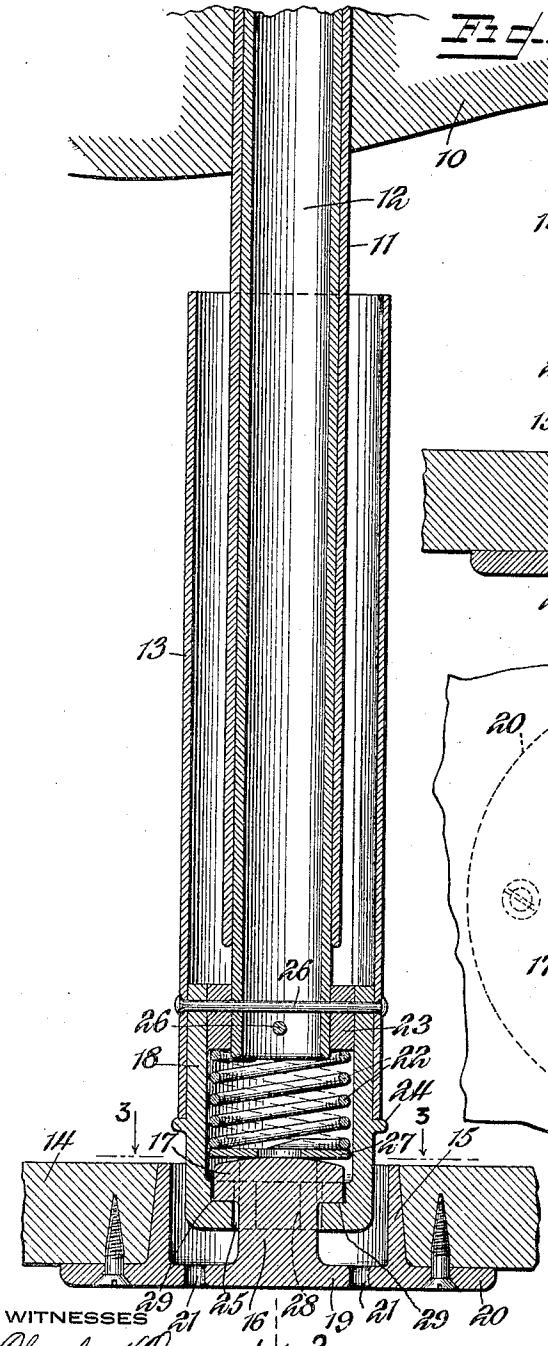


Fig. 2.

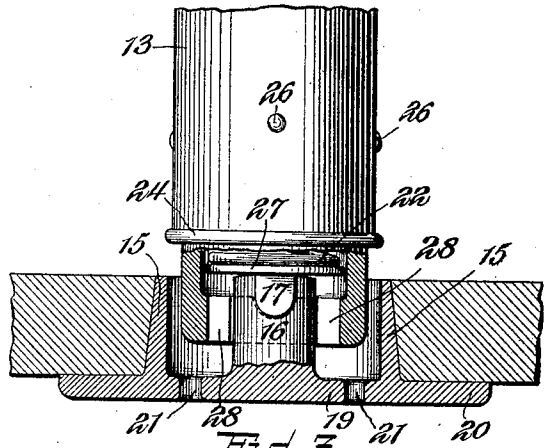
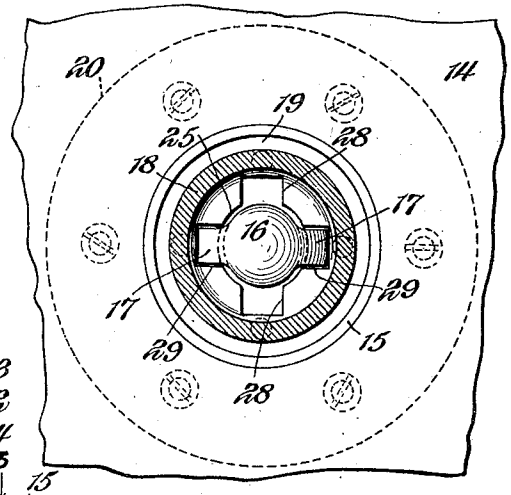


Fig. 3.



WITNESSES

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Patented Dec. 25, 1923. 1,478,743

UNITED STATES PATENT OFFICE.

KARL FRIDRICH WILHELM JAENECKE, OF NORTH TONAWANDA, NEW YORK, ASSIGNOR TO SPILLMAN ENGINEERING CORPORATION, OF NORTH TONAWANDA, NEW YORK, A CORPORATION OF NEW YORK.

ATTACHMENT FOR CARROUSELS.

Application filed January 26, 1921. Serial No. 439,997.

To all whom it may concern:

Be it known that I, KARL FRIDRICH WILHELM JAENECKE, a citizen of the United States, residing at North Tonawanda, in the county of Niagara and State of New York, have invented a new and useful Attachment for Carrousels, of which the following is a specification.

The present invention relates to improved mounting for the figures which are used on carrousels.

An object of the invention is to provide a connection or mounting which may be quickly assembled and disassembled, which provides an interlocked joint not readily released, and which admits of a noiseless oscillating movement of the parts as the animal or other figure is moved up and down in the usual manner.

Another object is the provision of a mounting of this character between the standard which carries the animal and the platform, so as to anchor the standard to the platform and at the same time allow free vertical movement of the standard and free oscillation of the standard without undue wear on the parts, or liability of disconnection.

A further object is to provide a connection, the parts of which are completely housed and covered, and of ample strength to hold the animal.

A still further object is to improve upon the construction described and claimed in the Patent No. 1,186,659, granted to me June 13, 1916; and particularly to decrease the cost of manufacture of the parts, lessen the unnecessary weight, and to make assembling of the parts an easier operation.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawing forming part of this specification, with the understanding, however, that the invention is not confined to any strict conformity with the showing in the drawing, but may be changed and modified so long as such changes and modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

In the drawing:—

Fig. 1 is a vertical sectional view taken through the standard.

Fig. 2 is a similar view but at right angles thereto with parts in elevation showing the connection of the mount and platform.

Fig. 3 is a horizontal section substantially on the line 3—3 of Fig. 1.

The numeral 10 designates the animal or other figure which is supported by the improved mount or connection. The figure 10 is secured to an outer tube 11 into which telescopes an inner tube 12. The lower end of the standard thus formed is encased in and protected by a cylindrical casing 13 which prevents contact of clothing, hands and the like with the movable tube.

The platform 14 of the carrousel immediately beneath the connection of the figure 10 with the tube 11 has an opening through which extends the circular flange 15 of a cap plate 19. This cap plate closes the lower end of the opening referred to while its circular flange borders said opening. The cap plate 19 has a circular flange 20 disposed at right angles to the flange 15 and fitting against the under side of platform 14. By this means bolts, screws or the like may hold the cap plate to the platform. Perforations 21 are provided in the cap plate 19 extending downwardly from the cup-like recess formed by the flange 15 in conjunction with the main body of the cap plate.

Formed integrally with the cap plate is a central pillar or post 16 substantially cylindrical in its general outline but having a pair of trunnions 17 at the upper end thereof extending laterally from diametrically opposite points. The lower end of the inner tube 12 is secured by rivets or the like 26 to plate 23, the plate in the present instance being annular in form. Surrounding the plate 23 is a cup-shaped casting 18. The coil spring 22 is housed within the casting 18, a washer being disposed beneath the spring. The upper end of the spring bears against the plate 23. The washer 27 is forced against the upper end of the pillar or post 16 by the tension of the spring. The casting 18 has a bead 24 formed integrally therewith and enclosing the lower end of the

casing 13. The rivets 26 unite this casing to the casting 18, the block or plate 23, and the tube 12, so that all these parts are ordinarily stationary.

The casting 18 at its lower end has a central opening 25 to admit the post 16 and a pair of channels or slots 28 of sufficient width to admit the trunnions 17. Trunnion seats or channels 29 are formed at points diametrically opposed to each other in the bottom of the casting 18 and substantially at right angles to the slots 28, the trunnions being yieldingly held in these seats by the tension of the spring 22. The lower portions of these trunnions are rounded, as shown in Fig. 2, to permit oscillation of the figure 10.

When it is desired to detach the standard 11, 12 from the platform, the casting 18 is depressed sufficiently to withdraw the seats 29 from the trunnions 17. The casting is then given a quarter turn to bring its slots 28 into register with said trunnions, whereupon the casting is released from the post 16. The parts are readily coupled by performing these steps in the reverse order, the slots of the casting being brought into register with the trunnions of the post and the casting then given a quarter turn to interlock its seats 29 with the trunnions. It will be noted that the latter together constitute a transverse locking pin carried by said post.

What is claimed is:—

1. In a carrousel employing a platform, a pair of telescoping tubes, and a figure secured to one of said tubes, the combination of a plate secured to the platform of the carrousel; a post rising from the plate, trunnions projecting laterally from the post, a casting interlocking with and seating the trunnions, means mounting the casting, the other tube being connected to said casting, and a resilient means for maintaining the trunnions in their seats.

2. In a carrousel employing a platform, a pair of telescoping tubes, and a figure secured to one of said tubes, the combination of a plate secured to the platform of the carrousel, a post rising from the plate, trunnions projecting laterally from the post, a casting including a lower wall and side walls, said lower wall having a central passageway to receive the post, and a pair of slots bordering said passageway to permit entrance of the trunnions to the interior of the casting, seats within said casting for the trunnions, means mounting the casting and connecting the casting to the other tube, and resilient means within the casting for mounting the trunnions in their seats.

3. In a carrousel employing a platform, a pair of telescoping tubes, and a figure secured to one of said tubes, the combination of a plate secured to the platform of the carrousel, a circular flange upstanding from said plate to form a cup-like receptacle, a post rising centrally of the plate within the receptacle thereof, a pair of trunnions projecting from the upper end of the post at diametrically opposite points, a casting partly received within said cup-like receptacle and interlocking with and seating the trunnions, a spring within the casting to maintain the trunnions in their seats, and means mounting the casting, the other tube being connected to said casting.

4. In a carrousel employing a platform, a pair of telescoping tubes, and a figure secured to one of said tubes, the combination of a plate secured to the platform of the carrousel, a post rising from the plate, trunnions projecting laterally from the post, a casting interlocking with and seating the trunnions, a spring wholly enclosed within the casting and pressing against the upper end of the post to maintain the trunnions in their seats, and means mounting the casting, the latter being connected to the other tube.

5. In a carrousel including a movable figure, in combination, a plate secured to the platform of the carrousel, a circular flange rising from the plate and forming a cup-like receptacle, a post rising from the plate centrally of the receptacle, trunnions projecting laterally from the upper end of the post at diametrically opposite points, the lower parts of said trunnions being rounded, a casting partly received within said receptacle and in turn receiving said post, said casting having a central passage in its lower wall of a size to admit the post and having a pair of slots to admit the trunnions, a pair of trunnion seats within the casting spaced substantially a quadrant from said slots, a spring within the casing and normally holding the trunnions in their seats, a tube joined to said casting, and a second tube sliding over the first-named tube, said second tube being affixed to the figure of the carrousel.

6. In a carrousel including a movable figure, the combination with the platform of the carrousel having an opening, a plate secured to the platform and having a circular flange upstanding from said plate and adapted to fit in said opening and forming a cup-like receptacle, a post rising centrally from the plate within the receptacle thereof and spaced from said flange, a hollow casting having means adapted to receive and interlock with said post and allow for relative movement, a spring enclosed within the casting and pressing against the upper end of the post, and telescoping tubes, one of said tubes being secured to the figure of the carrousel and the other tube to said casting.

7. In a carrousel including a movable figure, the combination with the platform of the carrousel, a plate secured to said platform and having an upstanding flange form-

ing a cup-like receptacle, a post rising centrally from the plate within the receptacle thereof and spaced from said flange, a hollow casting, means for interlocking said casting to said post and permitting relative movement of said casting and said post, a spring enclosed within said casting and bearing against said post, a pair of telescoping tubes, one being secured to and within the casting and the other being secured to the figure of the carrousel, and an outer tube secured to the outer side of the casting and enclosing the telescoping tubes.

8. A coupling for connecting the seat carrier of a carrousel with the platform thereof, comprising an upright post adapted to be carried by the platform and having a transverse locking pin, a hollow coupling member adapted to be slidably and rotatably mounted on the seat-carrier and constructed to normally enclose said post and its pin, the bottom of said hollow coupling member having radial locking recesses arranged to receive said pin, to interlock the parts of the coupling, and releasing slots arranged to register with said pin to disconnect said parts, and means for yieldingly holding said hollow coupling member in its locked position.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature.

KARL FRIDRICH WILHELM JAENECKE.