

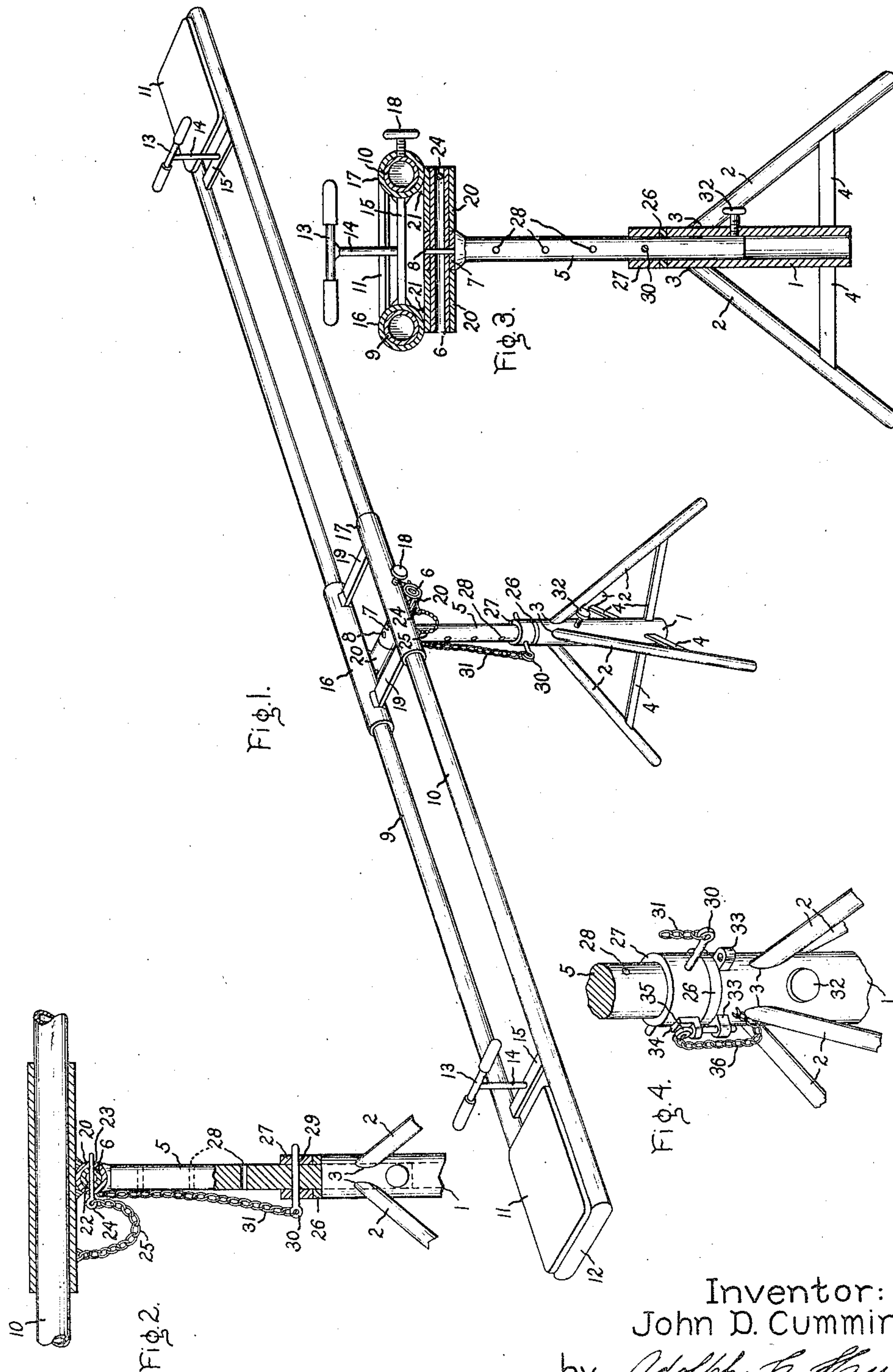
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ROTATING SEESAW

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ROTATING SEESAW

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My invention relates to amusement devices and in particular to such devices as are adapted to provide desirable exercise and recreation in the form of a combined see-saw or teeter-totter and a merry-go-round.

An object of my invention is to provide an improved amusement device of the teeter-totter type.

Another object of my invention is to provide an improved amusement device of the merry-go-round type.

A further object of my invention is to provide an improved amusement device of the combined teeter-totter and merry-go-round type.

Further objects and advantages of my invention will become apparent and my invention will be better understood from the following description referring to the accompanying drawing, and the features of novelty which characterize my invention will be pointed out with particularity in the claims annexed to and forming part of this specification.

In the drawing, Fig. 1 is a perspective view of an amusement device incorporating embodiments of my improved features in a combined teeter-totter and merry-go-round; Fig. 2 is a partial sectional side elevational view of the main supporting features shown in Fig. 1; Fig. 3 is a partial end sectional view through the central mounting member of the device; and Fig. 4 is a perspective view of a modification of a part of the mounting member shown in Figs. 1, 2, and 3.

Referring to the drawing, I have shown in Figs. 1, 2, and 3 an amusement device adapted to act as a combined teeter-totter and merry-go-round or to be used selectively as either one of these. In this construction, the amusement device includes a main supporting member having an upwardly extending mounting cylinder 1 with four interconnected legs 2 extending angularly from adjacent the upper end of the cylinder 1 and suitably secured thereto, as by welding, at 3. The legs are interconnected by braces 4 which may be secured thereto in any suitable manner, as by welding, and also secured to the upwardly extending cylindrical member 1 in any suitable manner, as by also being welded thereto adjacent the lower end thereof. This arrangement of four rigid interconnected legs secured to the mounting cylinder 1 provides a stable support which minimizes the possibility of upsetting the device. The mounting member further includes an upwardly extending shank 5 slidably and rotatably fitted into the mounting cylinder 1 to the upper end of which a transversely extending jour-

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nal shaft 6 is secured. This journal shaft may be secured to the shank 5 in any suitable manner, and, as shown, a sleeve 7 is arranged around the central portion of the shaft 6 and secured thereto by a pin 8 which extends through the sleeve 7 and the shaft 6 and is welded thereto and to the upper end of the shank 5.

This device is adapted to provide amusement and exercise for a plurality of passengers and is formed with a member for carrying passengers which includes a pair of substantially cylindrical rails 9 and 10 with a seat 11 adjacent each end of the rails rigidly securing together the ends of the rails. The seats 11 may also include transversely extending supporting members 12 for reinforcing the seats and for assuring a rigid connection between the rails 9 and 10. In order to provide additional support for the passengers, a set of handle bars 13 is mounted on an upwardly extending post 14 secured to a transversely extending bar 15 secured to the rails 9 and 10 adjacent each seat 11, such that a passenger seated on a seat 11 can brace himself by grasping the handle bars 13 without bending over too far. The passenger-carrying member is supported on the mounting member by a rigid mounting frame which includes a pair of tubular members 16 and 17 slidably fitted around the rails 9 and 10 respectively providing for adjustment of the rails longitudinally relative to the mounting frame, such that a substantially equal moment may be provided about the mounting member by the passengers on each of the seats 11. This can be obtained by sliding the rails 9 and 10 through the tubular members 16 and 17 to shorten the distance between the main mounting member and the seat 11 which carries the heavier passenger. In use, it is desirable that the rails 9 and 10 should not slide within the frame members 16 and 17 after the proper adjustment has been made and, therefore, an arrangement is provided for locking the rails in position relative to the mounting frame. In the illustrated arrangement, this comprises a locking screw 18 which is adapted to be screwed through the tubular member 17 into engagement with the rail 10 which extends therethrough for securing the rails in the desired predetermined position relative to the mounting frame. In order to facilitate adjustment of the rails relative to the tubular members 16 and 17 and in order to provide a desirable support for the rails 9 and 10, these tubular members 16 and 17 are made sufficiently long to prevent binding of the rails in the tubular members, and, in addition, a spacer member is pro-

vided for rigidly securing together the tubular members 16 and 17. This spacer member may comprise a pair of longitudinally spaced spacer bars 19 rigidly secured, as by welding, to the tubular members 16 and 17.

The passenger-carrying member, including the rails 9 and 10 and the seats 11, is adapted to be supported in teetering relation on the main mounting member by a pair of axially aligned sleeve bearings 20 rigidly secured one to each of the tubular frame members 16 and 17 transversely and on the underside thereof and rotatably arranged around the transversely extending journal shaft 6. These bearings 20 may be secured to the tubular sleeve members 16 and 17 in any suitable manner, as by welding, as indicated at 21. In some instances it may be found desirable to prevent teetering of the device, and this may be obtained by preventing relative rotation between the sleeve bearings 20 and the journal shaft 6. In the illustrated arrangement, this is obtained by the provision of an opening 22 in the journal shaft and aligned openings 23 in the two sides of one of the sleeve bearings 20 which are adapted to register with the journal shaft opening 22 when the rails 9 and 10 are substantially in a horizontal position and a locking pin 24 is provided which is adapted to be inserted through the registrable openings to prevent relative movement therebetween and thereby prevent teetering movement of the passenger-carrying member. A chain 25 is secured to the head of the pin 24 and to the tubular frame member 17 to prevent loss of the pin.

In order to provide a merry-go-round feature to this amusement device, the upwardly extending shank 5 is adapted to support the passenger-carrying member in horizontally rotatable relation to the main supporting member through a bearing of any suitable type, such as a bronze or brass sleeve bearing 26 arranged around the shank 5 and over the upper end of the mounting cylinder 1. This bearing 26 supports the shank 5 through a collar 27 which is longitudinally slidably arranged around the shank 5 and adapted to be rigidly secured thereto in a plurality of predetermined positions to provide for a plurality of heights of the mounting frame relative to the main mounting member. This is obtained by providing a plurality of openings 28 longitudinally spaced in the shank 5 which are adapted to register with a pair of aligned openings 29 in the collar 27 through which a locking pin 30 is adapted to extend. By adjusting the relative vertical position of the shank 5 to the mounting member cylinder 1, the position of the main mounting frame of the device may be adjusted vertically, thereby providing for the desired adjustment of the passenger-carrying member for passengers of different heights. A chain 31 is secured to the head of the pin 30 and to the sleeve 7 to prevent loss of the pin 30.

In adjusting the vertical position of the shank 5, it is desirable that the weight of the device should be removed from the pin 30 and the collar 27 and, therefore, a locking screw 32 is provided which extends through a threaded opening in the mounting cylinder 1 and is adapted to engage the shank 5 to secure it in any desired elevated position with the collar 27 out of engagement with the bearing 26, thus supporting the weight of the passenger-carrying member on the mounting member through the locking screw 32, after which the desired adjustment of the position of the collar 27 and pin 30 may be more

easily made. As shown particularly in Fig. 3, the shank 5 is made of sufficient length to provide stability thereto and prevent accidental displacement of the shank 5 from the mounting cylinder 1. In some instances, it may be found desirable to prevent relative rotary motion between the passenger-carrying member and the main mounting member, and this may be done by tightening up the locking screw 32, thereby binding the shank 5 to the mounting cylinder 1.

In Fig. 4, I have shown a modification of a part of the construction shown in Figs. 1, 2, and 3 in which provision is made for locking the passenger-carrying member in a plurality of predetermined transverse positions relative to the mounting member legs 2. This is provided in the illustrated arrangement by a plurality of outwardly projecting lugs 33 with openings therein which are circumferentially spaced around and secured to the upper end of the mounting cylinder 1 and which are adapted to cooperate with a projecting lug 34 secured to the collar 27 and having an opening therethrough adapted to register with the opening in any one of the cylinder lugs, such that a locking pin 35 may be inserted through the registered lug openings as shown in Fig. 4 for locking the passenger-carrying member through the lugs in a predetermined position. A chain 36 is secured to the head of the pin 35 and to the mounting cylinder 1 to prevent loss of the pin.

Preferably, all of the major parts of this amusement device are made of structural elements, such as bar stock, pipes, and other suitable tubing. My improved amusement device is adapted to provide exercise to passengers and is adjustable for different weights of passengers as well as for different heights of passengers and may be locked to provide only rotary or merry-go-round action or only teetering action, if desired, or may be used to provide a combination of both of these actions.

While I have illustrated and described particular embodiments of my invention, modifications thereof will occur to those skilled in the art. I desire it to be understood, therefore, that my invention is not to be limited to the particular arrangements disclosed, and I intend in the appended claims to cover all modifications which do not depart from the spirit and scope of my invention.

What I claim as new and desire to secure by Letters Patent of the United States is:

1. An amusement device including a main supporting member, a transversely extending journal shaft rigidly secured to the upper end of said main supporting member, a member for carrying passengers including a pair of rails with a seat adjacent each end thereof rigidly securing together the ends of said rails, means including a mounting frame having a pair of cylindrical tubular members rigidly secured together and fitted around said rails, means for securing said rails in position relative to said frame, means including a pair of axially aligned sleeve bearings rigidly secured one to each of said tubular frame members transversely thereof and rotatably arranged around said transversely extending journal shaft for supporting said passenger-carrying member in teetering relation thereon, means including an opening in said journal shaft and an opening in one of said sleeve bearings adapted to register therewith when said rails are substantially in a horizontal position with a pin adapted to be inserted through said registrable openings

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for preventing teetering movement of said passenger-carrying member, and means for supporting said passenger-carrying member in horizontally rotatable relation to said main supporting member.

2. In an amusement device including a main supporting member having an upwardly extending mounting cylinder and an upwardly extending shank slidably and rotatably fitted into said mounting cylinder with a transversely extending journal shaft having a sleeve around the central portion thereof rigidly secured to the upper end of said shank, a member for carrying passengers including a pair of substantially cylindrical rails, a mounting frame having a pair of tubular members slidably fitted around said rails providing for adjustment of said rails longitudinally relative to said mounting frame including a member extending transversely between said tubular members forming a rigid frame structure, and means including a pair of axially aligned sleeve bearings rigidly secured one to each of said tubular frame members transversely and on the underside thereof and rotatably arranged around said transversely extending journal shaft in substantially abutting relation with each end of said central sleeve for supporting said passenger-carrying member in teetering relation thereon.

3. In an amusement device including a main supporting member having an upwardly extending mounting cylinder with an upwardly extending shank slidably and rotatably fitted into said mounting cylinder and a transversely extending journal shaft rigidly secured to the upper end of said shank, a member for carrying passengers including a pair of substantially cylindrical rails with a seat adjacent each end thereof rigidly securing together the ends of said rails, means including a mounting frame having a pair of

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tubular members slidably fitted around said rails, means for securing said rails in any predetermined position relative to said frame, means including a pair of axially aligned sleeve bearings rigidly secured one to each of said tubular frame members transversely thereof and rotatably arranged around said transversely extending journal shaft for supporting said passenger-carrying member in teetering relation thereon, means including an opening in said journal shaft and an opening in one of said sleeve bearings adapted to register therewith when said passenger-carrying member is substantially in a horizontal position with a pin adapted to be inserted through said registrable openings for preventing teetering movement of said passenger-carrying member, and means for supporting said passenger-carrying member in horizontally rotatable relation to said main supporting member.

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