T. GIBSON.

AMUSEMENT APPARATUS.

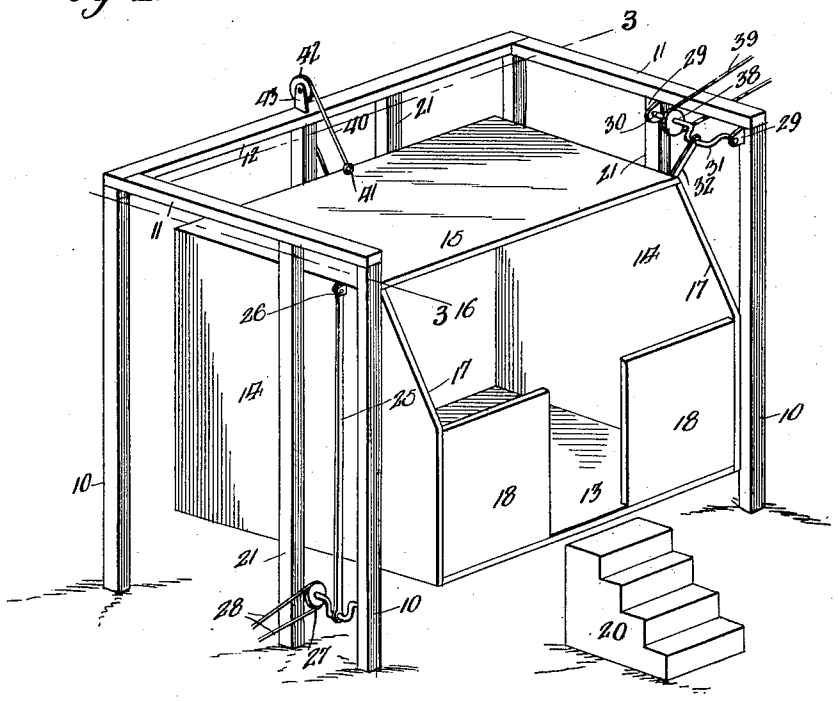
APPLICATION FILED NOV. 7, 1912.

1,100,725.

Patented June 23, 1914.

3 SHEETS—SHEET 1.

Fig. 1.



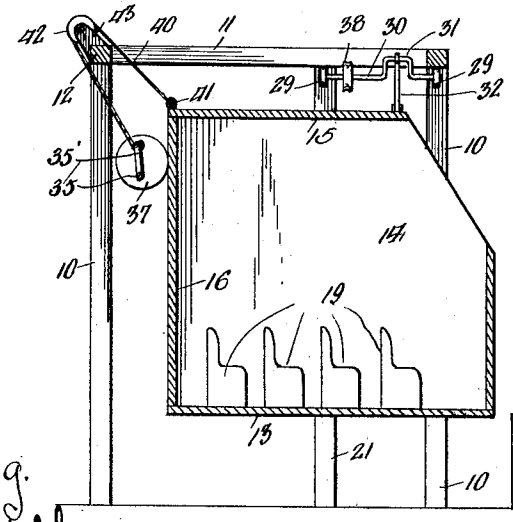


Fig. 2.

WITNESSES

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3 SHEETS—SHEET 2.

Fig. 3.

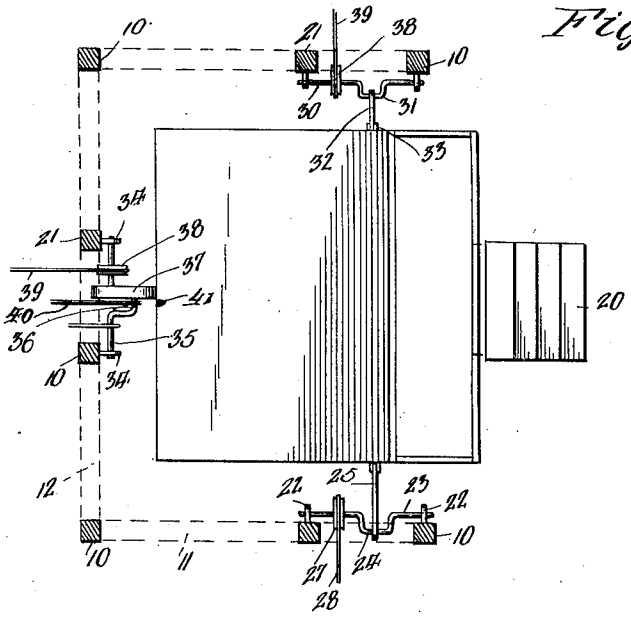
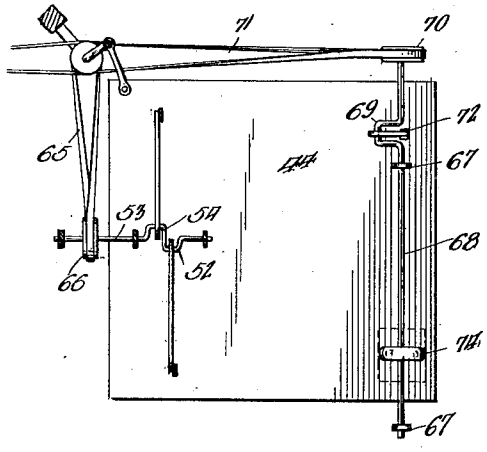


Fig. 4.



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3 SHEETS—SHEET 3.

Fig. 5.

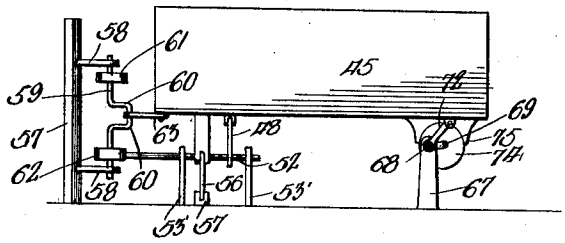


Fig. 6.

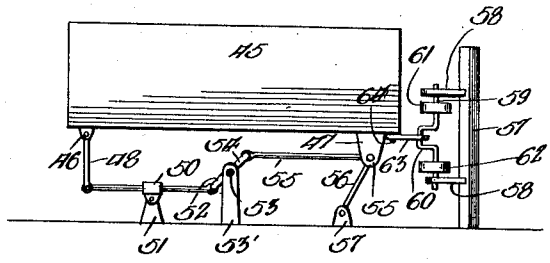
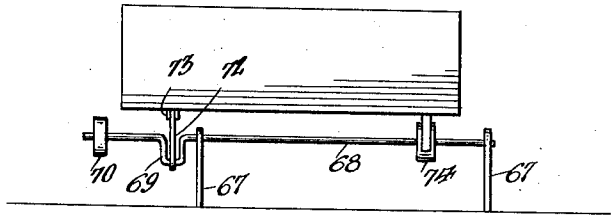


Fig. 7.



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AMUSEMENT APPARATUS.

1,100,725. Specification of Letters Patent. Patented June 23, 1914.

Application filed November 7, 1912. Serial No. 730,034.

To all whom it may concern:

Be it known that I, THEODORE GIBSON, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented new and useful Improvements in Amusement Apparatus, of which the following is a specification.

My invention has for its object the production of a novel amusement device which will give the occupant or occupants the sensation of an earthquake.

An object of my invention is to provide an amusement device supported in such a manner that it may be oscillated and reciprocated at different speeds when occasion requires so as to give the occupants the sensation of an earthquake.

Another object of my invention is to provide an amusement device comprising a body and support therefor, the support carrying a plurality of rods having connection with the body so that the latter may be rocked to and fro in the manner hereinafter set forth and for the purpose described.

Still another object of my invention is to provide an amusement apparatus wherein the body portion is supported in such a manner as to give the occupants thereof the sensation of an earthquake and at the same time provide means for comfortably seating the occupants and for preventing any injury whatsoever to the same.

Upon reference to the drawings, it will be recognized that the device which I have provided consists of but a few simple parts all of which are in compact relation so as to make the device very simple in operation, durable, and cheap to manufacture.

With the above and other objects in view, my invention relates to such details of construction and in the arrangement and combination of the several parts as will be hereinafter fully described and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a perspective view of my invention embodying its preferred form. Fig. 2 is a vertical sectional view thereof. Fig. 3 is a plan view. Fig. 4 is a bottom view of the modified form. Fig. 5 is a side elevation of the modified form. Fig. 6 is a rear elevation of the modified form, and Fig. 7 is a front elevation.

In the accompanying drawings wherein is illustrated the preferred form of my invention, the numeral 10 designates a plurality of supporting rods connected at their upper extremities through the medium of cross pieces 11 and 12. These cross pieces together with the standards provide a suitable supporting structure for the body portion of my invention as will be hereinafter pointed out at length.

The body portion of the device comprises a bottom piece 13 having sides 14 provided at each end thereof, the latter being connected at their upper extremities by a top 15 and at their rear sides by a back 16 as is shown. The front edges of the sides are beveled as shown at 17, while the straight portions thereof have projecting therefrom sections 18 which form a suitable railing and prevent the occupants from falling out. Chairs of any suitable construction such as designated by the numeral 19 may be provided for the occupants to sit on but it is desired to be understood that any other suitable means may be employed if it is so desired.

Any means may be provided for facilitating the loading of the device with passengers, but in the drawings I have illustrated steps 20 for this purpose, they being all integral and capable of being moved into and out of engagement with the bottom at certain times.

Uprights 21 are disposed between the standards 10, each having its upper extremity secured to one of the cross pieces 11 or 12 as is clearly shown. The uprights are disposed nearer the standards at the forward end of the cross piece 11 and the central portion of the cross piece 12.

Ears are provided upon one of the uprights and its adjacent standard, the ears being in alinement with each other as shown at 22 and having a shaft 23 journaled therethrough, the latter being provided with a crank 24 intermediate its ends for engagement with a substantially vertical rod 25. This rod has connection at its upper extremity with a pair of ears 26 carried near the upper end of one of the side pieces of the body portion so that when the shaft is revolved the body portion will be reciprocated.

A pulley 27 is provided upon the shaft and

has a cable or belt 28 operating thereabout whereby it may be rotated.

From the foregoing disclosure, it will be apparent that one end of the body portion receives the reciprocatory motion imparted through the rotation of the shaft 23 and its constituents. This motion does not materially jar the body portion, however, it merely springs the same in a vertical plane. Other means including oscillatory movement are also provided as will be hereinafter set forth and by the co-action of the two different movements, it will be apparent that the body portion will be shaken to an appreciable extent so as to give the occupants thereof almost an exact imitation of an earthquake.

Another of the uprights together with its adjacent standard are provided with ears 29 through which is journaled a shaft 30, the latter having a crank 31 provided intermediate its ends for engagement with a rod 32, the latter having connection with a pair of ears 33 carried near the upper extremity of one of the sides of the body portion. Here it will be noted that while the shaft 23 was carried near the lower extremity of its support and the rod 25, the rod 30 is carried near the upper extremity so that the motion transmitted therethrough to the body portion will be hereinafter termed oscillatory movement as the body portion is moved in a substantially horizontal plane instead of a substantially vertical plane as is mentioned in connection with the other operating mechanism.

The other of the uprights and its adjacent standard have ears 34 provided thereon for revolubly supporting a shaft 35, the latter having a crank 36 provided intermediate its ends for supporting a cam disk 37, the latter being in engagement with the rear side of the body portion. A pulley 38 similar to the one provided upon the shaft 30 is also provided upon the shaft 35 and has a cable 39 operating thereabout as is clearly shown for purpose of transmitting reciprocatory motion thereto.

With the above description in view and taken in connection with the accompanying drawings, it will be apparent that as the cables 28 and 39 are manipulated, the rods 25 and 32 will be reciprocated and oscillated respectively, while the cam will be rotated to give a substantially oscillatory reciprocatory movement to the movement of the body portion and thus, to be consistent with the foregoing remarks give the occupants thereof the sensation of an earthquake.

Other means are provided, co-acting with the cam disk 37 for supporting the body portion and at the same time adding to its efficient operation. This means comprises a cable 40 being secured at one end to an eyelet 41 upon the body portion and at the other end about the crank 35′. The intermediate portion of the cable extends about a pulley 42 which is supported upon the brackets 43 on the cross piece 12. By this arrangement it will be apparent that as the shaft 35 revolves the crank will of course manipulate the cable to draw the body toward the cam. The shaft 35 is provided with the crank 35′ so that the cable will be lengthened when the greater radius of the cam is presented to the carrier, and will be shortened when the lesser radius of the cam is presented to the carrier so that the cable 40 will function to hold the carrier against the cam so as to permit the same to impart oscillatory movement to the carrier.

In Figs. 4, 5, 6 and 7, I have illustrated the modified form of my invention. While the form above mentioned has proven very efficient in operation, the modified form has also proven successful and I desire it to be understood that either may be used if occasion requires. In this form, the body portion comprises a bottom portion 44 and side pieces 45.

The rear portion of the bottom is substantially pivotally supported as is clearly shown, it having ears 46 and 47 provided thereon, the first mentioned ears having pivoted connection with a depending rod 48, the latter having engagement with a horizontally disposed arm 49. This arm is carried within a sleeve 50 on a supporting member 51, and engages a crank 52 upon the shaft 53 as is shown. Another crank 54 is provided upon the shaft and has engagement with an arm 55 which is pivotally connected to the ears 47 as shown at 55. The last mentioned ears are supported through the medium of a rod 56 operating upon a supporting member 57, the latter being carried by any suitable support desirable.

An upright such as designated by the numeral 57 is provided having spaced apart lugs 58 provided thereon which support a shaft 59 carrying a crank 60 and pulleys 61 and 62 as is clearly shown. For purpose of transmitting an oscillatory movement to the body portion, a link 63 is provided upon the last mentioned crank and has engagement with the body portion as shown at 64. A belt 65 operates about the pulley 61 and also about a pulley 66 carried upon the shaft 53 as is shown. It is now apparent that when motion is transmitted to the pulley 65 and consequently to the shafts 53 and 59 which will be rotated, it gives the body portion a substantially oscillatory movement which will of course give the occupants the sensation of a miniature earthquake.

Other means are provided for oscillating the body portion, and preferably at its forward end, this means comprising a pair of uprights 67 having a shaft 68 journaled therethrough, the latter having a crank 69

provided intermediate its end and a pulley 70 near one extremity as is shown, the pulley having a belt 71 operating thereabout whereby motion may be transmitted to the shaft.

An arm 72 has connection with the shaft 68 and at the cranked portion thereof and is also pivotally connected to ears 73 on the body portion as is shown whereby when the shaft is rotated, a substantially reciprocatory movement will be transmitted to the body portion and the latter rocked in the manner set forth in the preferred form of my invention. A cam 74 is also provided upon the shaft 68 and has engagement with a bracket 75 carried by the under side of the body portion, the bracket being provided with a cut out portion to conform with the contour of the base of the cam. In this form of my invention, it will be recognized that the source of power is obtained from one point and that a reciprocatory and oscillatory movement is also obtained upon the mechanism as was pointed out in connection with the preferred form of the invention.

From the foregoing, it is thought that the advantages and novel features of my invention will be readily comprehended.

I desire it to be understood that I may make slight changes in the construction and in the arrangement and combination of the several parts, provided, however, such changes fall within the scope of the subjoined claims.

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

1. In an amusement device, a passenger carrier having rear and side walls, lateral oscillatory means connected with one side wall near the upper portion thereof, vertically oscillatory means connected with another side wall near the upper portion thereof and forwardly oscillatory means engaging the rear wall of said carrier, substantially as described.

2. In an amusement device, a passenger carrier having rear and side walls, a frame work surrounding the carrier, means mounted upon the frame work and connected with one side wall for imparting an up-and-down oscillatory motion to the carrier, means mounted on said frame and connected with another side wall for imparting a lateral oscillatory motion to the carrier, and means engaging the rear wall for imparting forward oscillatory motion to said carrier, substantially as described.

3. In an amusement device, a passenger carrier, and a plurality of devices for oscillating said carrier in different directions, said carrier being supported wholly by the devices for oscillating the same, substantially as described.

4. In an amusement device, a passenger carrier, and a plurality of devices connected with said carrier at differently spaced horizontal points and at different elevations, each device imparting oscillatory movement to the carrier in a direction different from the other devices, and said carrier being supported wholly by the devices for oscillating the same, substantially as described.

5. In an amusement device, a passenger carrier having rear and side walls, crank devices connected with the side walls for imparting lateral and up-and-down oscillatory motion to said body, a cam for engaging the rear wall to impart forward oscillatory motion to said body, and supporting means for the body holding the same in engagement with said cam, substantially as described.

6. In an amusement device, a passenger carrying body, a frame work therefor, a crank device mounted on the frame work near the upper portion of said body for imparting lateral oscillatory motion thereto, a crank device mounted on said frame work near the lower portion of said body and connected with the upper portion of the body for imparting vertical oscillatory motion thereto, and a cam device for supporting and imparting a to-and-fro oscillatory motion to said body, substantially as described.

THEODORE GIBSON.

Witnesses:
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W. A. LOEWE.