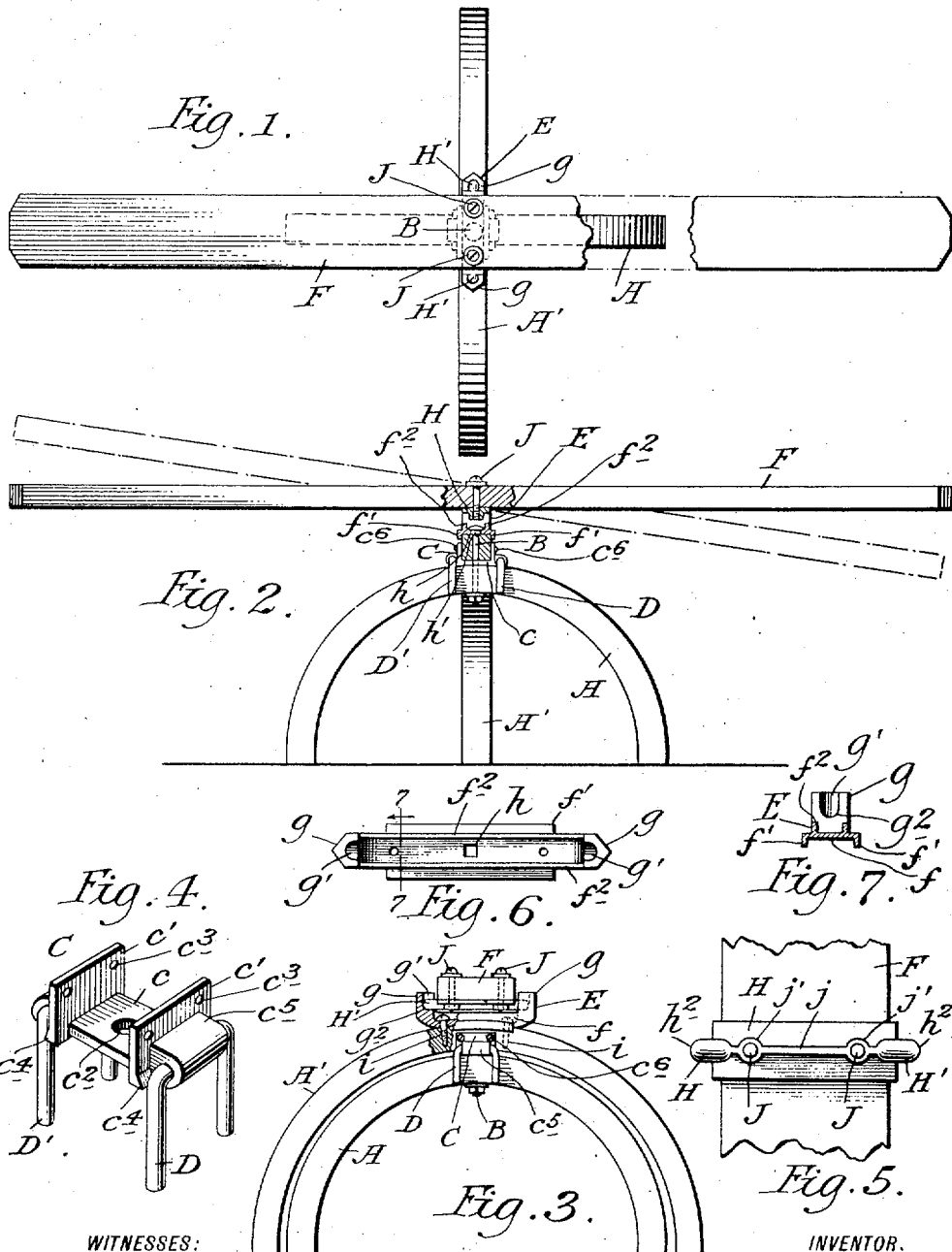


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AMUSEMENT DEVICE.
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973,618.

Patented Oct. 25, 1910.



WITNESSES:

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ANDREW A. BRENGEL, OF JERSEY CITY, NEW JERSEY.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ANDREW A. BRENGEL, a citizen of the United States, residing in Jersey City, county of Hudson, and State of New Jersey, have invented a certain new and useful Amusement Device, of which the following is a specification.

This invention is an amusement device of that type known as a see-saw, though certain features of the invention are adapted for purposes other than that of a see-saw.

The features of novelty embodied in the device include, among other things: a novel form of pedestal or stand adapted to be readily folded into a closed position when not in use and to be locked, when desired, into an operative position; a novel form of bearing for the teeter-board, and a member secured to the teeter-board and cooperating with said bearing whereby the teeter-board may oscillate upon the bearing without displacement.

The pedestal or stand is composed of two members, substantially semi-circular in shape, and pivoted whereby they may be positioned within the same plane, which is their inoperative position, or swung into planes at right angles to each other, which is their operative or supporting position. The upper one of said members is provided with suitable means, preferably in the form of latches, whereby said members may be readily locked or unlocked.

The teeter-board bearing preferably comprises a channeled member having depending flanges which embrace the upper of the two pedestal members, means for fixedly securing it to said pedestal member, and a pintle support in either end thereof adapted to receive the pintles forming a part of the teeter-board member.

Other features of the invention not hereinbefore specifically referred to will be apparent from the detailed description of the invention and the subjoined claims.

In the accompanying drawings I have illustrated one practical embodiment of the invention, but the construction shown therein is to be understood as illustrative, only, and not as defining the limits of the invention.

Figure 1 is a plan view of an amusement device constructed in accordance with my

invention, a part of the teeter-board being broken away to illustrate a member of the pedestal or stand which lies directly below said teeter-board. Fig. 2 is a side elevation, with parts broken away and in section, for the purpose of illustrating the bearing for the teeter-board, said teeter-board being shown in a tilted position by dotted lines. Fig. 3 is an elevation at right angles to Fig. 2 showing an end portion of the teeter-board, the pedestal or stand being folded so that one member will lie within the other member, and the teeter-board being in a position to be dismounted from the pedestal or stand. Fig. 4 is a perspective view showing the latch plate and the latches removed from the pedestal or stand. Fig. 5 is an inverted or bottom plan view of a part of the teeter-board, illustrating the plate having the pintles whereby said teeter-board may be mounted in the bearing on the pedestal for rocking movement with respect thereto. Fig. 6 is a plan view of the bearing on an enlarged scale as compared with Figs. 1, 2 and 3. Fig. 7 is a cross section through the bearing on the line 7-7 of Fig. 6.

The pedestal or stand comprises two members, A, A', substantially semi-circular in form, as shown in Figs. 2 and 3, and connected pivotally by a vertical bolt, B, whereby said members may be adjusted to occupy operative positions at right angles to each other, as in Figs. 1 and 2, or said members may be adjusted in the same plane so as to lie one within the other, as shown in Fig. 3. Each member of the pedestal may be composed of wood, metal or any other material suitable for the purpose, but in one practical embodiment of the invention, the member is composed of a wooden piece which is steamed and bent to the required shape. Member, A, is somewhat smaller than member, A', so as to occupy a position below member, A', the two members being concentrically positioned one within the other when they are folded to lie in the same plane, as in Fig. 3, whereby the pedestal or stand is adapted to occupy very little space, which is desirable for storage and transportation purposes. The members composing the pedestal are provided with vertical bolt holes in the crown portions thereof, and

when the hole of one member is in register with that of the other member, bolt, B, may be passed through said holes for the purpose of connecting the members pivotally together. The members do not contact with each other at their point of intersection, but between said members is interposed a plate, *c*, of a latch supporting casting, C, shown more particularly in Fig. 4, the position of said plate, *c*, of the latch casting being shown in Figs. 2 and 3. The latch casting consists of plate, *c*, and upstanding flanges, *c'*, said plate and the flanges being cast in a single piece. Plate, *c*, is provided with a central aperture, *c²*, whereas flanges, *c'*, are provided with screw holes, *c³*, near their upper edges. At the lower edges of flanges, *c'*, are provided stop lugs, *c⁴*, and on the outer faces of said flanges are the bearing lugs, *c⁵*, said stop lugs and bearing lugs being cast in one piece with plate, *c*, and flanges, *c'*.

In assembling the parts composing the pedestal or stand, the latch casting is fitted to the under face of member, A', at the highest point of its curve, so that plate, *c*, will lie beneath the piece composing member, A', whereby the aperture, *c²*, of plate, *c*, is in register with the bolt hole of member, A'. Screws, *c⁶*, are passed through the openings, *c³*, of flanges, *c'*, so as to be embedded in the material of member, A', thus firmly securing the latch casting to said member, A'. After the latch casting shall have been applied to member, A', the complementary member, A, is fitted below plate, *c*, of the latch casting for the bolt hole of said member, A, to register with opening, *c²*, and the bolt hole in member, A', thus permitting bolt, B, to pass through the bolt holes in members, A, A', and opening, *c²*, of the latch casting.

D, D' designate latches which are loosely supported in bearing lugs, *c⁵*, whereby the latches are positioned at the respective sides of member, A', and said latches are adapted for engagement with the other member, A, as shown in Figs. 2 and 3. Each latch consists of a small piece of metal having the form of a yoke and loosely fitted in an opening of one bearing lug, *c⁵*, whereby the latch is adapted to turn in the lug so that it may be lifted from engagement with member, A, or it may be dropped or adjusted into engagement with said member, A.

E designates a bearing, and F the teeter-board. The bearing is cast in a single piece, and in the form shown more particularly in Figs. 6 and 7. Said bearing comprises a base plate, *f*, which is provided with depending flanges, *f'*, and with upstanding flanges, *f²*. Said plate of the casting is channeled in cross section, as shown in Figs. 2 and 7, thus adding to the strength and rigidity of the

casting, and securing lightness in weight. The casting is provided at its end portions with upstanding jaws, *g*, and each jaw is provided with a vertical recess, *g'*, which recess is curved in cross section, and the bottom, *g²*, of which recess constitutes a shoulder adapted to receive the pintles on the teeter-board presently described.

Plate, *f*, of the bearing is fitted to the top edge of member, A', so that the flanges, *f'*, of said plate will embrace the side edges of said member, A'. The bearing is provided with an opening, *h*, which is square in shape, and this opening registers with the bolt opening in member, A', whereby the headed end of bolt, B, passes through said opening, *h*. The bolt is provided just below its head with a square shoulder, *h'*, adapted to fill the opening, *h*, and to preclude the bolt from turning in the members, or in latch plate, *c*, or in bearing plate, *f*. The head of the bolt occupies the space between the upstanding flanges, *f²*, of the bearing, and thus the bolt is compactly positioned within the bearing so that its head is concealed and protected by said flanges, *f²*. Plate, *f*, of the bearing is secured firmly in position on the member, A', by screws, *i*, which pass through openings in the plate and are embedded in the material of member, A'. It will be seen that flanges, *f'*, of the bearing embrace member, A', that said bearing is fastened to the member by screws, *i*, and that bolt, B, passes through the bearing, whereby said bearing is attached by secure means and in a substantial manner to the member, A', of the pedestal.

The teeter-board, F, may be composed of wood or any other material suitable for the purpose. Said teeter-board is provided with a member in the form of a plate, H, arranged transversely on the under side of said board, at the middle portion thereof. Said plate is provided on its under side with a flange, *j*, and with bosses, *j'*, and in these bosses are secured the screws or bolts, J, whereby plate, H, is attached to the teeter-board in a substantial manner. The length of the plate slightly exceeds the width of the teeter-board, and at its end portions said plate is provided with pintles, H', the latter being integral with the plate. Each pintle is circular in cross section, or substantially so, and the extreme end, *h²*, of said pintle is half round. The pintles are adapted to occupy the vertical recesses, *g'*, in jaws, *g*, at the ends of bearing, E, and the half round end portions of said pintles fit in, or engage snugly with the shoulders, *g²*, of the bearing. The pintles are free to turn or rock within the recesses and upon the shoulders of the bearing so that the teeter-board will oscillate freely, but at the same time, the teeter-board is pre-

cluded from displacement in either a downward direction or in a horizontal plane, for the reason that the recesses, g' , preclude displacement of the teeter-board and the pintles in the direction of the length of said teeter-board, whereas the jaws, g , operate to prevent displacement of the teeter-board in the direction of the width thereof. At the same time, the teeter-board, the plate and the pintles of said plate may be easily and quickly lifted out of the recesses in bearing, E, thus allowing the teeter-board to be quickly disconnected from the bearing when it is desired to store or transport the amusement device, or said teeter-board may be quickly placed in position by simply introducing the pintles into the recessed jaws of the bearing.

From the foregoing description it will be apparent that the teeter-board may be dismounted from the pedestal, and that the pedestal may be folded, whereby the parts of the amusement device are adapted for storage and transportation.

In order to use the apparatus, the base is set up by turning members, A, A', in planes at right angles to each other, and latches, D, D', are adjusted into engagement with member, A, whereby the members are locked firmly in their operative positions, said members forming a pedestal having four legs. The teeter-board is placed in position for pintles, H, to enter recesses, g' , of the jaws, and to rest upon shoulders, g^2 , thus pivotally supporting the teeter-board in bearing, E, so that the teeter-board is free to oscillate in a vertical plane, but it cannot become displaced accidentally in either a vertical direction or a horizontal direction. It is manifest that the pintles, H', will be retained in position by jaws, g , of bearing E, in a manner to preclude movement of the teeter-board in the direction of its length or of its width, the weight of the teeter-board keeping pintles, H', in the recesses of shoulders, g^2 , but the teeter-board may be lifted out of the bearing by withdrawing pintles, H', from jaws, g , of said bearing, thus making provision for quickly dismounting the teeter-board and for placing it in an operative position upon the pedestal.

The parts composing my amusement device are simple in construction, economical to manufacture, quick of assemblage, durable, and reliable in use. The pattern for each casting is so designed that the resulting casting will be strong, and the pattern provides for easy molding in the sand. While latch casting, C, and bearing, E, are shown as separate castings, they may, obviously, be integral.

It is to be observed that each latch is, preferably, a single-bent rod fitted loosely in lug, c^5 , of the latch plate. When the latches

engage with member, A, to lock the latter in operative position relative to member, A', said latches engage with lugs, c^4 , to preclude movement of the latches in one direction.

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

1. In an amusement device, a pedestal comprising two members pivotally connected together for movement on a vertical axis, means on one of said members for locking the two members in an operative position, a bearing on one of said members for supporting a teeter-board, and a teeter-board having members cooperating with said bearing whereby said board is supported for oscillation.

2. In an amusement device, a pedestal comprising two members pivotally connected together and adapted to be positioned in planes at right angles to each other or to be folded into the same plane, means for locking said pedestal members in said position at right angles to each other, a bearing secured to one of the pedestal members and provided with curved recesses for receiving a pintle, a teeter-board provided with a member having two pintles, one of said pintles being positioned in one of said recesses and the other pintle being positioned within the other of said recesses, whereby the teeter-board is adapted for oscillation.

3. In an amusement device, a pedestal comprising two members adapted to be pivotally secured together, a bearing secured to one of said members by means of a bolt, which bolt also secures said pedestal members pivotally together, and a teeter-board supported for oscillation on said bearing.

4. In an amusement device, a pedestal comprising two members adapted to be positioned in the same plane or in planes at right angles to each other, means for locking said members in planes at right angles to each other, a bearing comprising a channeled member having depending flanges which embrace one of the pedestal members and having at either end a semi-cylindrical depression for receiving a pintle, and a teeter-board provided with two pintles adapted to be seated within said semi-cylindrical depressions for oscillatory movement.

5. In an amusement device, a pedestal comprising two members adapted to be pivotally connected together so that said members may be folded into a single plane or positioned in planes at right angles to each other, a bearing secured to one of said members by a bolt which also forms a pivotal connection between the members, and additional means for further securing said bearing to the pedestal member.

6. In an amusement device, a pedestal

comprising two members adapted to be pivotally connected together so that said members may be folded into a single plane or positioned in planes at right angles to each other, and means for locking them in planes at right angles to each other, comprising a device secured to one of said members and having pivoted latches adapted to embrace the other pedestal member, and a bearing secured to one of said members and adapted to directly support a teeter-board in a position to be oscillated.

7. In an amusement device, a pedestal, a bearing secured thereto, said bearing comprising a longitudinal plate provided at its respective ends with jaws, said jaws having on the inner opposing faces thereof recesses semi-circular in cross section, each recess being closed by an outer wall and the bottom of each recess terminating in a shoulder; a teeter-board, and a plate attached to the teeter-board provided with pintles having curved end portions adapted to be fitted in said semi-circular recesses and to be seated upon the shoulders at the bottoms of said recesses, whereby the teeter-board may be oscillated and precluded from edgewise displacement on the pedestal.

8. In an amusement device, a pedestal comprising two members, a bearing of channelled cross section, means on said bearing for detachably supporting a pintle on a teeter-board, and a bolt having its head positioned within the channel of the bearing and serving to fasten said bearing to one of the pedestal members, and, also, to pivotally secure said pedestal members together.

9. In an amusement device, a pedestal or stand, a bearing provided with depending side flanges and with upstanding flanges, said depending flanges embracing the pedestal and said bearing being provided, also, with jaws having a recess on the inner face, such recess terminating in a shoulder at the bottom of said recess, teeter-board, and a member fixed to said teeter-board, said member being provided with pintles which are fitted in the recesses and rest upon the shoulders, whereby the weight of the teeter-board is imposed upon the bearing and the teeter-board is precluded from edgewise displacement in said bearing.

10. In an amusement device, a pedestal or stand comprising two members, a pivotal bolt connecting said members, a latch plate intermediate the members and secured to one of them, latches hung in said plate and adapted for engagement with one of the members for locking the two members in

their operative positions, a bearing on one of said members, and a teeter-board mounted in said bearing for oscillation with relation thereto and to the pedestal or stand.

11. In an amusement device, the combination with a teeter-board, a member on said teeter-board having a pintle on each end thereof, bosses on the body thereof between said pintles and fastened by said bosses transversely on said teeter-board with said pintles extending beyond the edges of the same, of a supporting member having two opposite vertical side walls and a longitudinal plate, flanges extending downwardly therefrom, and a recess in the inner face of each of said side walls, said bottom member and downwardly extending flanges positioned to aid in securing said supporting member to an upholding structure, said recesses arranged to be engaged by said pintles and afford facility for balancing said teeter-board, and means for upholding said supporting member.

12. In an amusement device, the combination with a teeter-board, a member on said teeter-board having a pintle on each end thereof, bosses on the body thereof between said pintles, bolts passing through said teeter-board and into said heads whereby said member is fastened transversely on the middle of said teeter-board with the said pintles extending beyond the opposite edges thereof, of a supporting member having two opposite vertical side walls, and a curved longitudinal plate, flanges extending downwardly therefrom, and a recess in the inner face of each of said side walls opposite to each other, said curved plate and flanges positioned to aid in securing said supporting member to an upholding structure, and said recesses in said side walls positioned for engagement with said pintles whereby the teeter-board may be balanced, and means for upholding said support.

13. In an amusement device, a pedestal comprising two semi-circular members adapted to fold one within the other, of a substantially U-shaped latch plate having depending flanges and latches, and a bolt and nut holding the several parts together, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ANDREW A. BRENGEL.

Witnesses:

H. I. BERNHARD,
M. C. POWELL.