

Dec. 30, 1924.

1,521,487

G. E. TURNER

AMUSEMENT DEVICE

Filed June 9, 1923

Fig. 1.

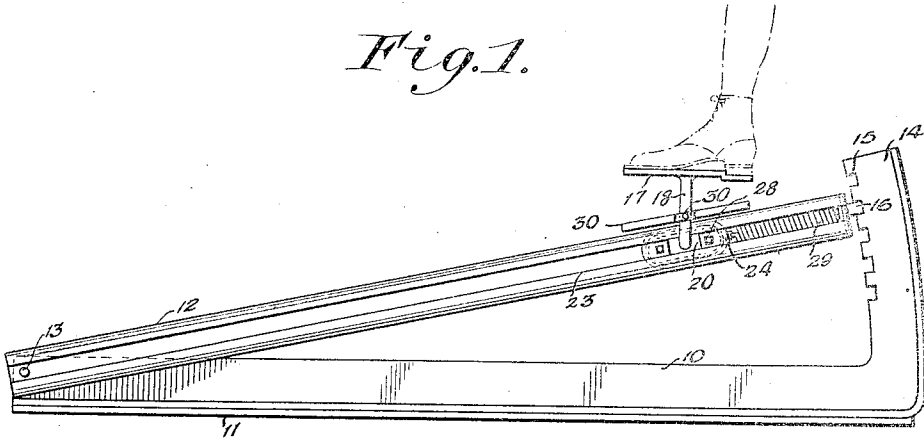


Fig. 2.

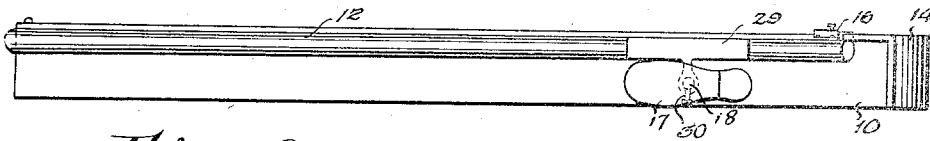


Fig. 3.

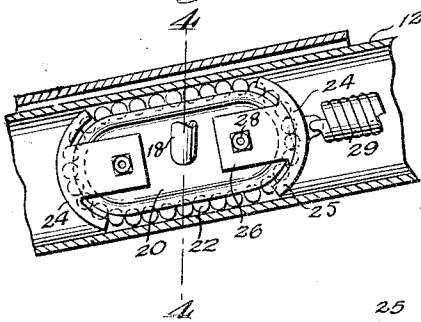


Fig. 4.

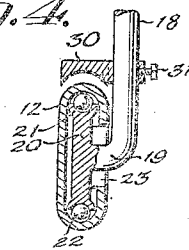
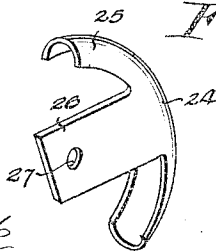


Fig. 5.



WITNESSES

Levy & Co.
L. L. Manseliff

INVENTOR

George E. Turner.

BY *Mumford*

ATTORNEYS

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UNITED STATES PATENT OFFICE.

GEORGE EDWARD TURNER, OF HOT SPRINGS, SOUTH DAKOTA.

AMUSEMENT DEVICE.

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To all whom it may concern:

Be it known that I, GEORGE E. TURNER, a citizen of the United States, and a resident of Hot Springs, in the county of Fall River and State of South Dakota, have invented a new and Improved Amusement Device, of which the following is a description.

My invention relates to an amusement device employing an inclined track and a foot rest adapted to travel along said track.

The general object of my invention is to provide an amusement device whereby the user may stand on the foot rest and permit the foot rest to travel down the inclined track, more specific objects being to provide a novel form of traveller for the foot rest as well as a novel bearing assemblage for the traveller element and spring means to return the foot rest after a downward movement by the user.

A still further object of the invention is to provide brake means to regulate the descent of the foot rest as well as to provide an embodiment of the invention reflecting practical considerations with respect to strength, and simplicity of adjustment and control.

The nature of the invention and its distinguishing features and characteristics will clearly appear as the description proceeds.

Reference is to be had to the accompanying drawings forming a part of this specification, it being understood that the drawings are merely illustrative of one example of the invention.

Figure 1 is a side elevation of an amusement device embodying my invention;

Figure 2 is a plan view thereof;

Figure 3 is an enlarged detail in longitudinal vertical section to illustrate certain features of the traveling foot rest;

Figure 4 is a cross section on the line 4-4, Figure 3;

Figure 5 is a perspective view of one of the end guards on the foot rest traveler.

In carrying out my invention in accordance with the illustrated example an elongated base 10 is provided advantageously shod with a rubber covering 11. An inclined track 12 generally of flattened tube form to present an oval cross section is employed and pivotally connected at its front end as at 13 to the front end of the base 10. At the rear end of the base 10 is an upward extension 14 slightly inclined

forwardly and formed at its front edge with a vertical series of notches 15 any one of which may receive a latch 16 on track 12 for varying the incline of said track.

A foot rest 17 is provided to have longitudinal movement on the inclined track 12, said foot rest comprising a foot plate 17 on the upper end of the standard 18, the lower end of which is directed laterally inward and is rigid with a traveller 20 disposed within the oval track 12. The traveller 20 advantageously is of oval shape in practice and at the periphery thereof has a continuous series of bearing balls 22, the lower run of which travels on the bottom of the track 12 at the interior, the balls thus generally having the arrangement of a caterpillar. The track 12 presents a longitudinal side slot 23 affording clearance for the longitudinal movement of the laterally projecting portion 19 of the post or standard 18. On the traveller 20 at each end is a guard 24 advantageously in the form of a substantially flat vertical plate. Said guard 24 includes a head member 25 which is of arcuate form to follow generally the curvature of the adjacent end of the traveller 20 and is semi-circular in cross section to form with the traveller 20 a ball race at each end of the traveller. The shank 26 of each guard 25 has a bolt hole 27 to receive a bolt 28 for securing the guard to the traveller. A retractile coil spring 29 is secured at one end to the adjacent guard 24 or any other fixed part appurtenant to the traveller 20, the opposite end of said spring being secured to the upper end of the track 12.

With the described construction the user of my amusement device stands on the foot plate 17 and his weight causes the traveller 20 to travel down the inclined track 12 toward the lower end thereof, the movement serving to distend the spring 29. The foot is now removed from the foot plate 17, and the foot rest being thus relieved of the weight of the user is returned on the track 12 to the upper end of the latter by the reaction of the spring 29. The user again stands on the plate 17 and repeats the forward movements.

In order to control the descent of the foot rest on the track 12 I provide a track brake 30 in the form of a plate disposed above the track and adjustable vertically on the post 18, a set screw 31 serving to fasten the track brake in adjusted position. Obviously, the

brake 30 may be caused to bear more or less against the track 12 to regulate the descent of the foot rest.

I would state in conclusion that while the illustrated example constitutes a practical embodiment of my invention, I do not limit myself strictly to the exact details herein illustrated, since, manifestly, the same can be considerably varied without departure from the spirit of the invention as defined in the appended claims.

Having thus described my invention, I claim:

1. An amusement device of the class described comprising an inclined track, means to vary the inclination of the track, and a foot rest held to said track to travel thereon; together with a brake carried by said foot rest and adjustable relatively to the track to vary the braking action on the latter.

2. In a device of the class described, a base having an upturned member at one end formed with notches, an inclined track pivoted to said base at the opposite end, and a latch on said track adapted to engage in one of said notches.

3. In a device of the class described, a base having an upturned member at one end formed with notches, an inclined track pivoted to said base at the opposite end, and a latch on said track adapted to engage in one of said notches; together with a foot rest adapted to travel on said track.

4. A device of the class described comprising a tubular track approximately oval in cross section and slotted longitudinally at a side thereof, an oval traveller, means within said track, and an annular series of rolling bearings disposed about said traveller and adapted to run on said track.

5. A device of the class described comprising a tubular track approximately oval in cross section and slotted longitudinally at a side thereof, an oval traveller, means within said track, and an annular series of rolling bearings disposed about said traveller and adapted to run on said track; together with guards on the traveller at the ends thereof outside of said bearings and curved to constitute with the ends of the traveller races for the bearings.

GEORGE EDWARD TURNER.