E. S. DOUGHTY.

AMUSEMENT APPARATUS.

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1,302,642.

Patented May 6, 1919.

FIG. 1.

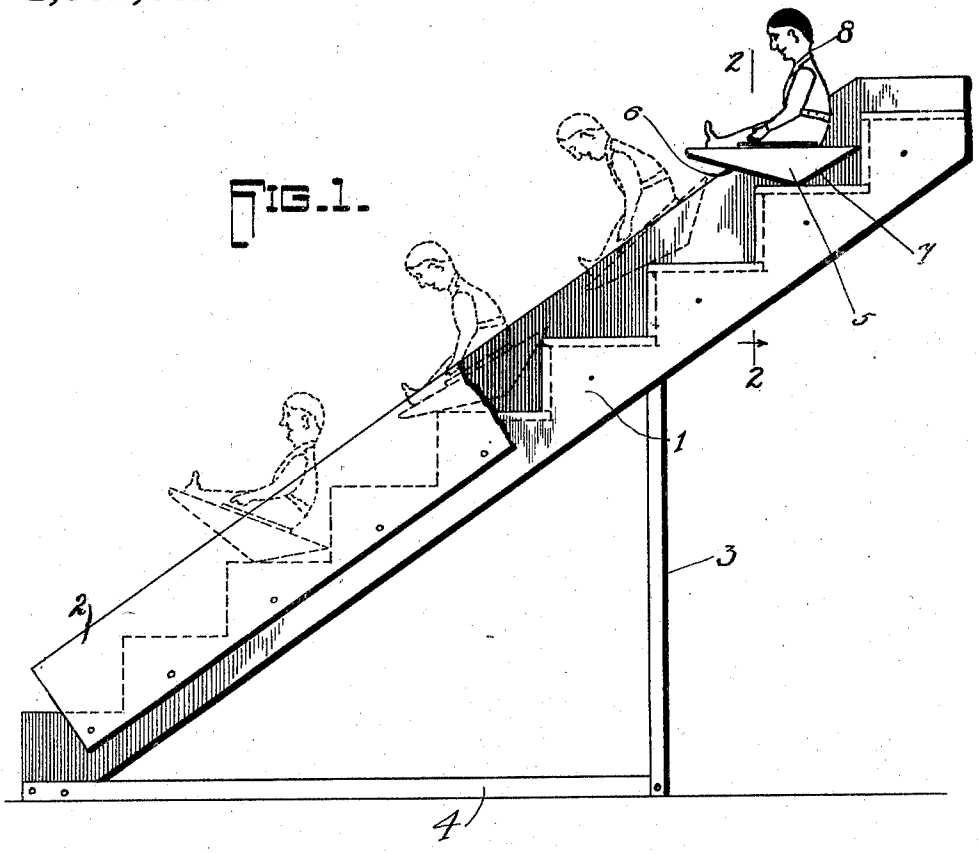
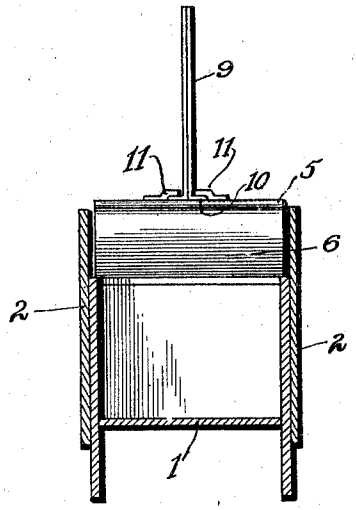


FIG. 2.



WITNESSES

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AMUSEMENT APPARATUS.

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To all whom it may concern:

Be it known that I, EDGAR STUART DOUGHTY, a citizen of the United States, and a resident of Red Wing, in the county of Goodhue and State of Minnesota, have invented certain new and useful Improvements in Amusement Apparatus, of which the following is a specification.

My invention is an improvement in amusement apparatus, and has for its object to provide in apparatus of the character specified a trackway and a series of vehicles adapted to move upon the trackway, the trackway consisting of a series of sets of treads, and the vehicle S being so shaped that they will be rocked forwardly and rearwardly as they move over the treads.

In the drawings:

Figure 1 is a side view of the apparatus; Fig. 2 is a section on the line 2—2 of Fig. 1.

In the present embodiment of the invention, the trackway consists of a bottom portion 1 formed like a stairway, that is, consisting of a number of treads, and the said bottom has side boards 2 which extend above the treads, as shown, slightly, to prevent lateral displacement of the vehicles.

The trackway is supported in inclined position by uprights 3 which are connected to the lower end of the trackway by longitudinally extending bars 4, to form a firm and rigid structure. Each of the vehicles is triangular in longitudinal section, the long side or base of the vehicle being the part upon which the rider seats, while the two short sides form the surface upon which the car or vehicle rocks.

Each of the cars or vehicles 5 has its under surface composed of two surfaces meeting at an obtuse angle, the forward surface 6 being of greater length than the rearward surface 7, and the length of the car is such that it will extend between two treads, as shown in Fig. 1, lapping upon both treads.

The improved apparatus may be of small size and in the form of a toy, in which case each car will carry a figure 8, which is secured to a plate 9 having laterally extending flanges 10 at its lower side, which are adapted to engage beneath guides 11 on the vehicle. Or it may be used as an amusement apparatus, in which case the cars may be of a size to permit a rider to be seated thereon, and the trackway will be of considerable length.

The cars are launched from the top and they are slightly less in width than the distance between the side boards, so that while they will move freely downward they cannot become caught or held by the said boards. When a car is launched from the top, it will occupy in close succession the positions shown in Fig. 1. The surface 7 is of a length such that the car can not rock downwardly upon the said surface on the upper face of the tread, the angle at the rear engaging first with the riser of the next tread. Hence the vehicle will tilt forwardly and will slide off each tread on to the next, first rocking backward on the next tread as shown at the left of Fig. 1, and then forwardly as shown in the second figure from the right. Thus the car will move from the top to the bottom with a forward and backward rocking motion.

I claim:

1. A device of the character specified comprising a trackway consisting of a series of steps and arranged in inclined position, so that the risers of the steps are vertical, side boards at the opposite sides of the track and extending above the steps, and cars mounted to slide on the steps, each car having its under face composed of two surfaces meeting at an obtuse angle, said car being of greater length than the distance between two steps, and the forward inclined surface being of greater length than the rearward inclined surface.

2. A device of the character specified comprising a trackway consisting of a series of steps and arranged in inclined position, so that the risers of the steps are vertical, side boards at the opposite sides of the track and extending above the steps, cars mounted to slide on the steps, each car having its under face composed of two surfaces meeting at an obtuse angle, said car being of greater length than the distance between two steps.

3. A device of the character specified comprising a trackway consisting of a series of steps and arranged in inclined position, so that the risers of the steps are vertical, side boards at the opposite sides of the track and extending above the steps, and cars mounted to slide on the steps, each car having its under face composed of two surfaces meeting at an obtuse angle.

4. A device of the character specified comprising a trackway consisting of a series of steps and arranged in inclined position, so

that the risers of the steps are vertical, side boards at the opposite sides of the track and extending above the steps, and cars mounted to slide on the steps.

5. In a device of the character specified, a car having its upper face plane and its under face composed of two surfaces meeting each other at an obtuse angle and meeting the ends of the first named face at acute angles, one of said surfaces being of greater length than the other.

6. In a device of the character specified, a car having its upper face plane and its under face composed of two surfaces meeting each other at an obtuse angle and meeting the ends of the first named face at acute angles.

7. In a device of the character specified, a car having its under face composed of two surfaces meeting at an obtuse angle and inclining toward the ends of the car.

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Witnesses:
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