

933,445.

B. HESS.
AMUSEMENT DEVICE.
APPLICATION FILED MAR. 22, 1909.

Patented Sept. 7, 1909.

2 SHEETS—SHEET 1.

Fig. 1

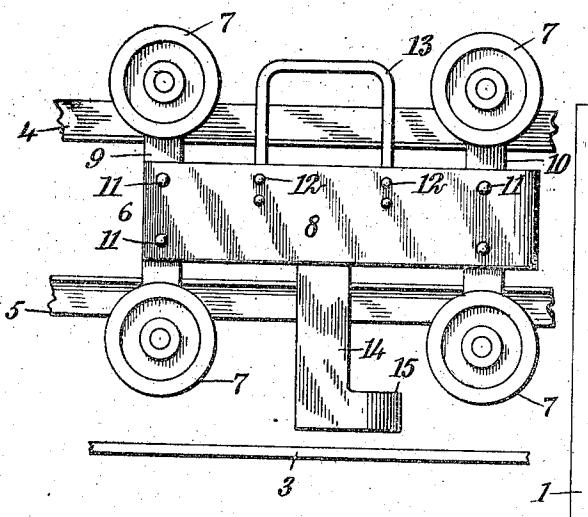


Fig. 2

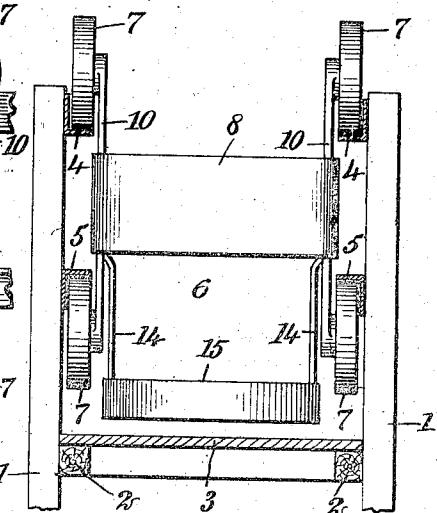


Fig. 3

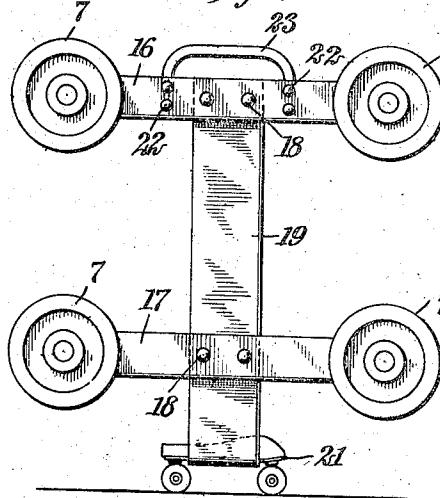


Fig. 4

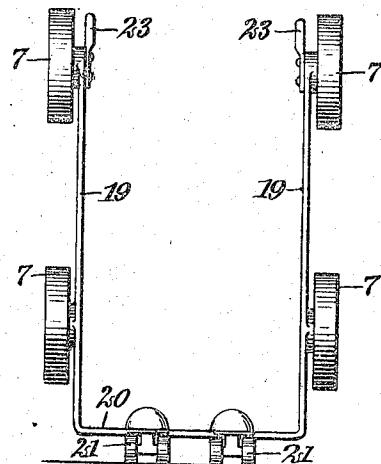
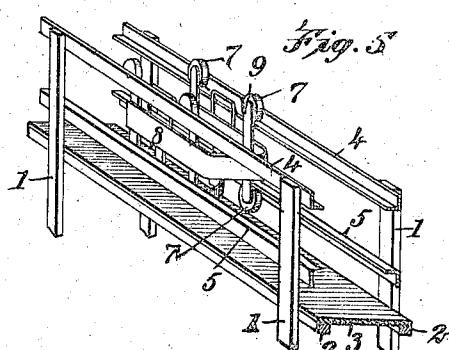


Fig. 5



WITNESSES

J. D. Smith
H. Whiting

INVENTOR

Bernhard Hess
By *Munroco*

ATTORNEYS

933,445.

B. HESS.
AMUSEMENT DEVICE.
APPLICATION FILED MAR. 22, 1909.

Patented Sept. 7, 1909.

2 SHEETS—SHEET 2.

Fig. 6

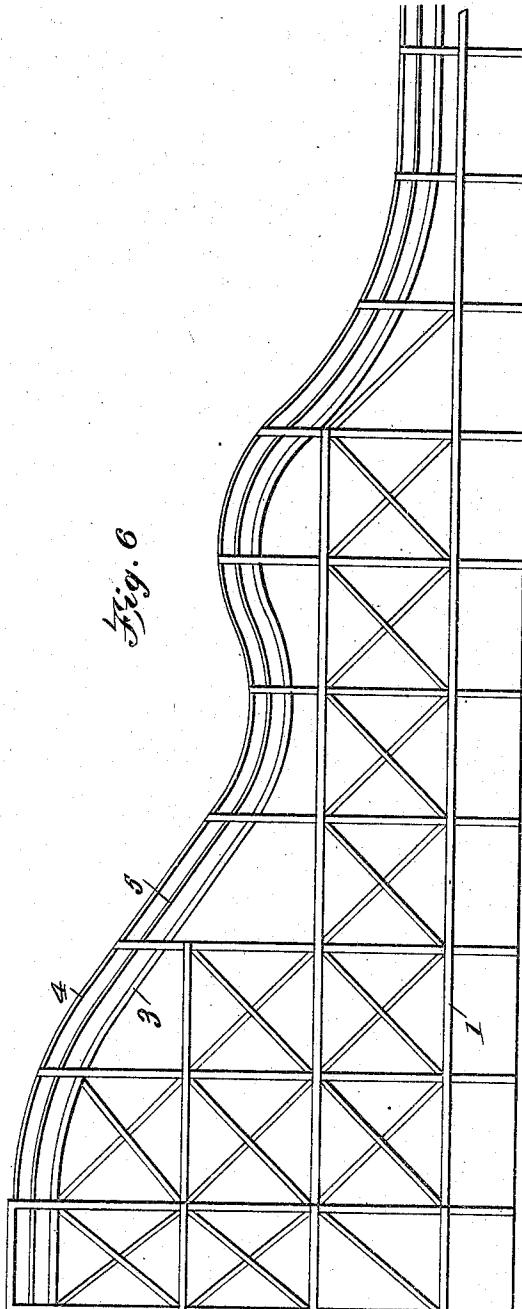
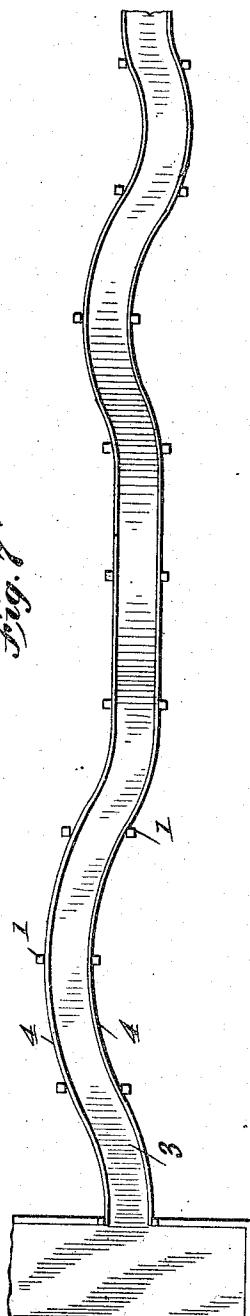


Fig. 7



WITNESSES

J. D. Smith
J. P. Davis

INVENTOR

Bernhard Hess
BY *Mum Lee*

ATTORNEYS

UNITED STATES PATENT OFFICE.

BERNHARD HESS, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO JOSEPH KRONEN BERGER, OF WEST HAMPTON BEACH, NEW YORK.

AMUSEMENT DEVICE.

938,445.

Specification of Letters Patent. Patented Sept. 7, 1909.

Application filed March 22, 1909. Serial No. 484,866.

To all whom it may concern:

Be it known that I, BERNHARD HESS, a subject of the Emperor of Germany, and a resident of the city of New York, borough of 5 Manhattan, in the county and State of New York, have invented a new and Improved Amusement Device, of which the following is a full, clear, and exact description.

This invention relates to amusement devices, of that type in which a carriage is adapted to travel over a sinuous track, and which is adapted to receive an occupant, who is to be carried along thereby and who either rests his feet on a support connected to the 15 carriage and rolling along an undulating surface, or who has skates on his feet which travel on said undulating surface.

Generally speaking, the invention consists in a series of sinuous undulating tracks connected to an undulating surface, and which are adapted to receive a carriage which travels thereon, said carriage being adapted to carry an occupant whose feet rest on suitable supporting rollers which travel on the 25 undulating surface.

The invention further consists in the construction and combination of parts, to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a side view of my device, showing one side of the track-support and tracks removed; Fig. 2 is a cross sectional elevation, showing an end view of the carriage on the track; Fig. 3 is a view in elevation, 10 showing a modified form of carriage in which the skate-wheels are directly attached to the carriage; Fig. 4 is an end view of the same; Fig. 5 is a perspective view, showing the device running on an inclined slope; Fig. 45 6 is a vertical side view showing the wavy nature of the tracks and path; and Fig. 7 is a top plan view showing the sinuous nature of the tracks and path.

Referring more particularly to the separate parts of the device, 1 indicates supporting uprights, to which are attached in any suitable manner supporting beams 2. Secured in any suitable manner to the supporting beams 2 is a path 3 having an undulating surface, and which also forms a sinuous

course. The supporting uprights 1 extend upwardly above the path 3 and form suitable supports for a plurality of tracks 4 and 5 which are adapted to receive a carriage 6. The tracks 4 and 5 are made of any suitable material and in any suitable form, but are preferably undulating angle-irons with their angles facing away from each other, so that the wheels 7, 7, which are secured in any suitable manner to the carriage 6, will engage the tracks on opposite sides and force the carriage to follow the course of the tracks, and thus transmit to the carriage an undulating sinuous travel, and also prevent it from being jolted away from the path 3.

The carriage shown in Figs. 1 and 2 has a body portion 8 which is substantially U-shaped in form, and which has attached to the sides thereof and near the ends of the said sides, substantially vertical hangers 9 and 10, which are secured in any suitable manner to the sides of the body portion 8, as by means of bolts or rivets 11, and are adapted to rotatably support at opposite ends thereof the wheels or rollers 7. On 25 each side of the body portion 8 are also secured in any suitable manner, as by means of rivets 12, hand grips 13, which are made of any suitable material, such as an iron rod, and are preferably substantially U-shaped. Secured to each side of the body portion in any suitable manner and extending downwardly therefrom are a pair of guards 14, 14, which are connected at their lower ends by means of a U-shaped rest 15, which may be 35 connected in any suitable manner to the guards 14 but is preferably integral therewith.

In the form shown in Figs. 3 and 4, the wheels 7 in the same horizontal plane, instead of the same vertical plane, as in Figs. 1 and 2, are connected by means of hangers 16 and 17, which are secured in any suitable manner, as by means of rivets 18 to the body portion 19, which extends vertically downward, and is in a substantially U-shaped form, having a bottom cross member 20 that forms a support to which are adapted to be fastened in any suitable manner, roller skates 21. Secured in any suitable manner 40 to the upper hangers 16, as by means of rivets 22, are handles 23, which are adapted to be grasped by the occupant of the carriage.

In the operation of the device in the form

shown in Figs. 1 and 2, the person who is to take this pleasurable trip places skates of any suitable form on his feet and steps in between the side members to the body 8 and 5 grasps the hand grips 13, the carriage being preferably at an elevated point. The carriage is then released and travels down the sinuous path 3, which is also undulated. The tracks 4 and 5 conform to the curves 10 and undulations of the path 3, and the occupant of the carriage is given a delightful, twisting and billowy motion.

In the form shown in Figs. 3 and 4, the rider is not obliged to provide himself with 15 skates, the skates being already attached to the carriage, and all he has to do is to jump aboard and take his pleasurable ride.

Having thus described my invention, I claim as new and desire to secure by Letters 20 Patent:—

1. In an amusement device, the combination with a support, of a plurality of tracks on each side of said support, a carriage for said tracks adapted to receive an occupant, 25 and a path, below said tracks, adapted to support part of the weight of said occupant.
2. In an amusement device, the combination with a support, of a plurality of undulating tracks on said support, a carriage for 30 said tracks adapted to receive an occupant, and an undulating path independent of said tracks, adapted to support part of the weight of the occupant.
3. In an amusement device, the combination 35 with a support, of a plurality of oppositely-facing tracks on said support, a carriage adapted to run on said tracks, and an undulating path on said support below said tracks.
4. In an amusement device, the combination 40 with a path, of a support for said path, a carriage adapted to travel above said path, tracks on said support adapted to guide said carriage, and skates adapted to travel on said path.
5. In an amusement device, the combination 45 with a support, of a plurality of pairs of inwardly-facing tracks on said support, and a carriage situated between said tracks and adapted to run on said tracks.
6. In an amusement device, the combination 50 with a support, of a plurality of pairs of inwardly-facing tracks on said support, a carriage situated between said tracks and adapted to run on said tracks, and a path 55 beneath said carriage.

7. In an amusement device, the combination with a support, of a plurality of pairs of oppositely-facing undulating tracks, a carriage situated between said tracks and adapted to run on said tracks and also adapted to receive an occupant, and an undulating path beneath said carriage adapted to receive part of the weight of the occupant.

8. In an amusement device, the combination with a support, of undulating tracks on said support, and a carriage adapted to run on said tracks, said carriage comprising a body portion, hangers, wheels rotatably supported on said hangers, and hand grips.

9. In an amusement device, the combination with a support, of a path on said support, a pair of tracks extending in a vertical plane on each side of said path, a carriage for said tracks adapted to receive an occupant, and skates adapted to run on said path and adapted to sustain part of the weight of the occupant.

10. In an amusement device, the combination with a support, of a plurality of pairs of oppositely-facing tracks, a carriage situated between said tracks and adapted to run on said tracks and also adapted to receive an occupant, and an undulating path beneath said carriage adapted to receive part of the weight of the occupant, said carriage comprising a body portion, hangers secured to said body portion, wheels rotatably supported on said hangers, and hand grips for said body portion.

11. In an amusement device, the combination with a support, of a plurality of pairs of oppositely-facing tracks having sinuous undulations therein, a carriage situated between said tracks and adapted to run on said tracks and also adapted to receive an occupant, an undulating path beneath said carriage adapted to receive part of the weight of the occupant, and skates adapted to transmit part of the weight of the occupant to said path, said carriage comprising a body portion, hangers secured to said body portion, wheel rotatably supported on said hangers, and hand grips for said body portion.

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

BERNHARD HESS.
Witnesses:

HORATIO WHITING,
JOHN P. DAVIS.