

A. G. SHARKEY.
CAR FOR ROLLER COASTERS.
APPLICATION FILED APR. 17, 1909.

952,472.

Patented Mar. 22, 1910.

Fig. 1.

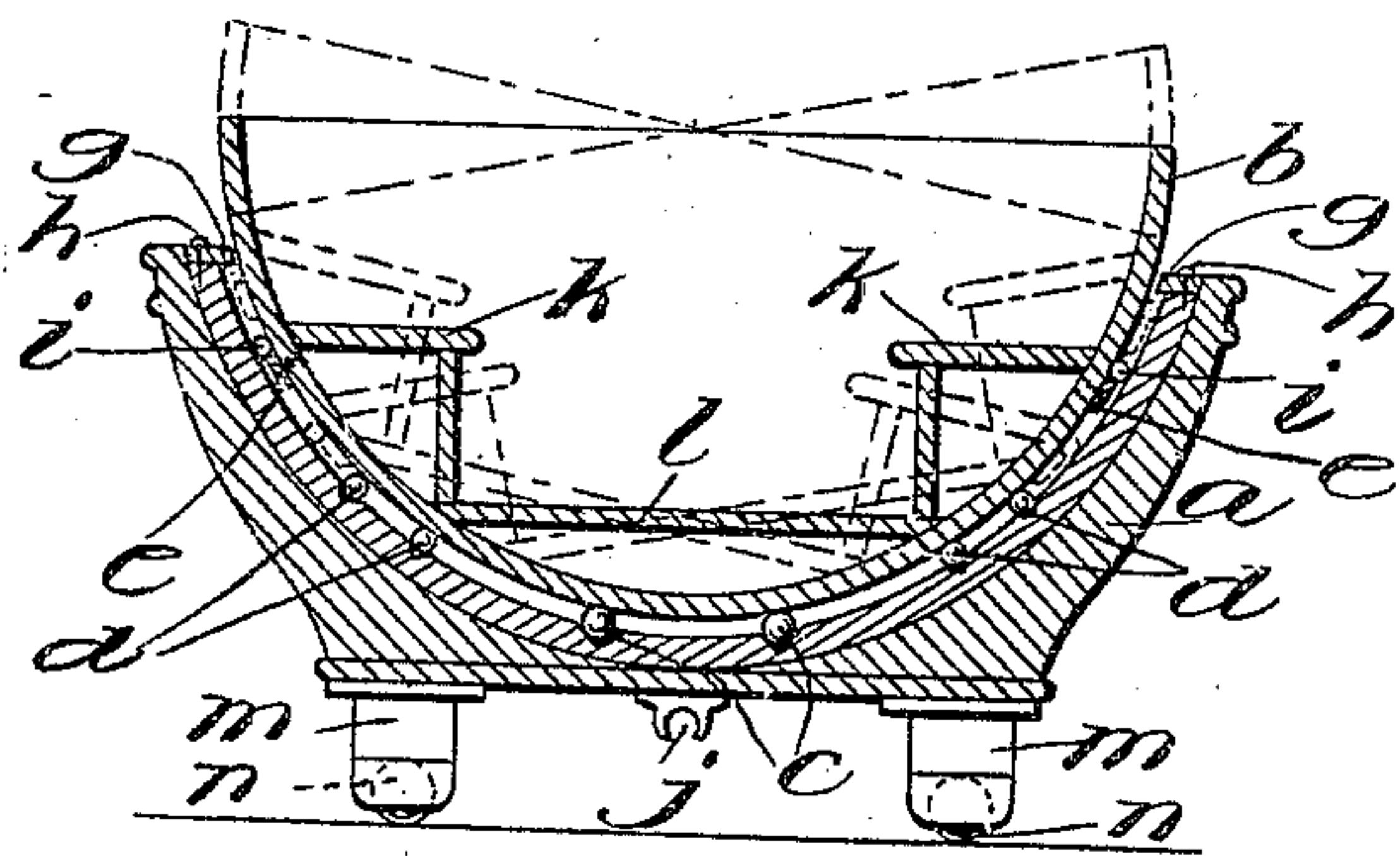


Fig. 2.

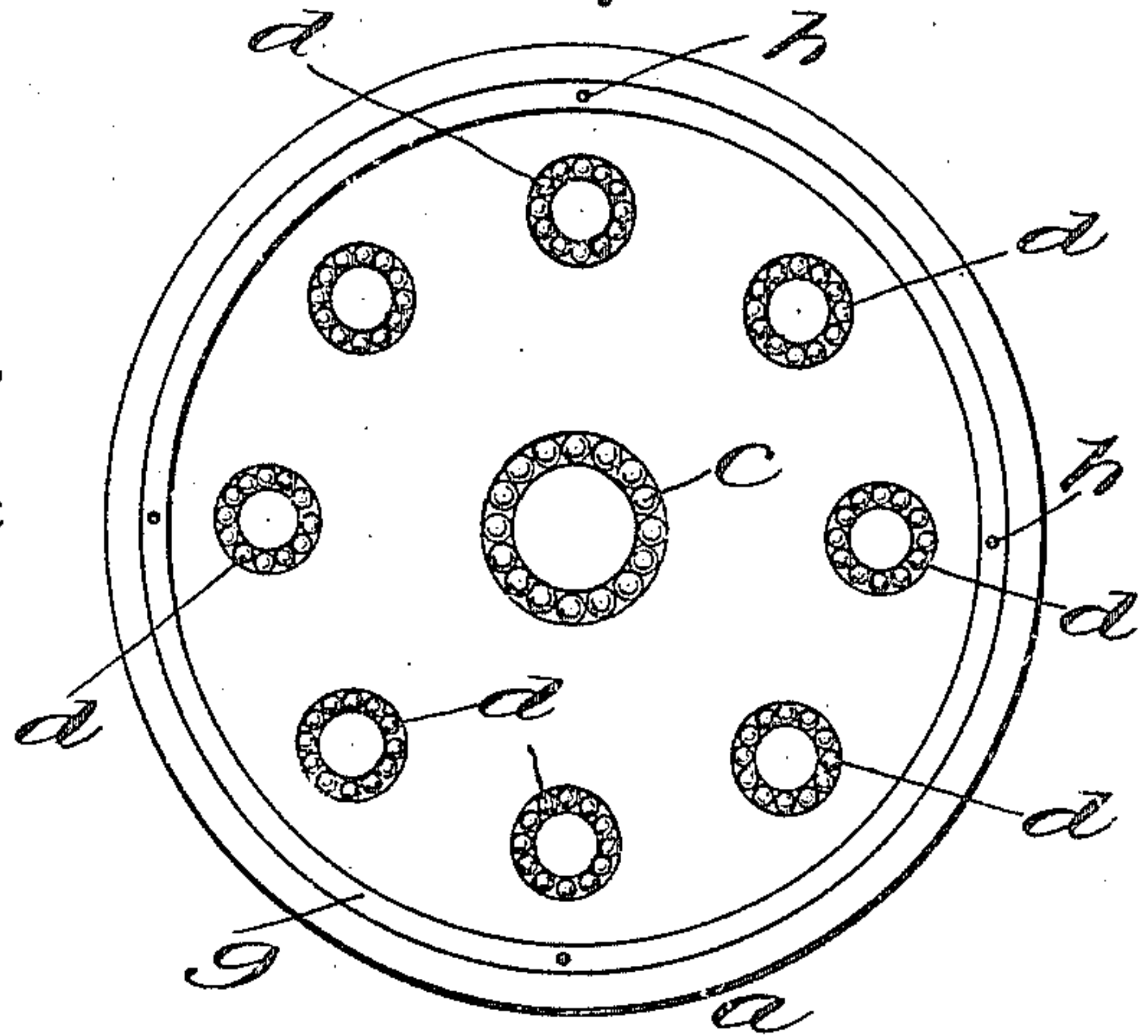
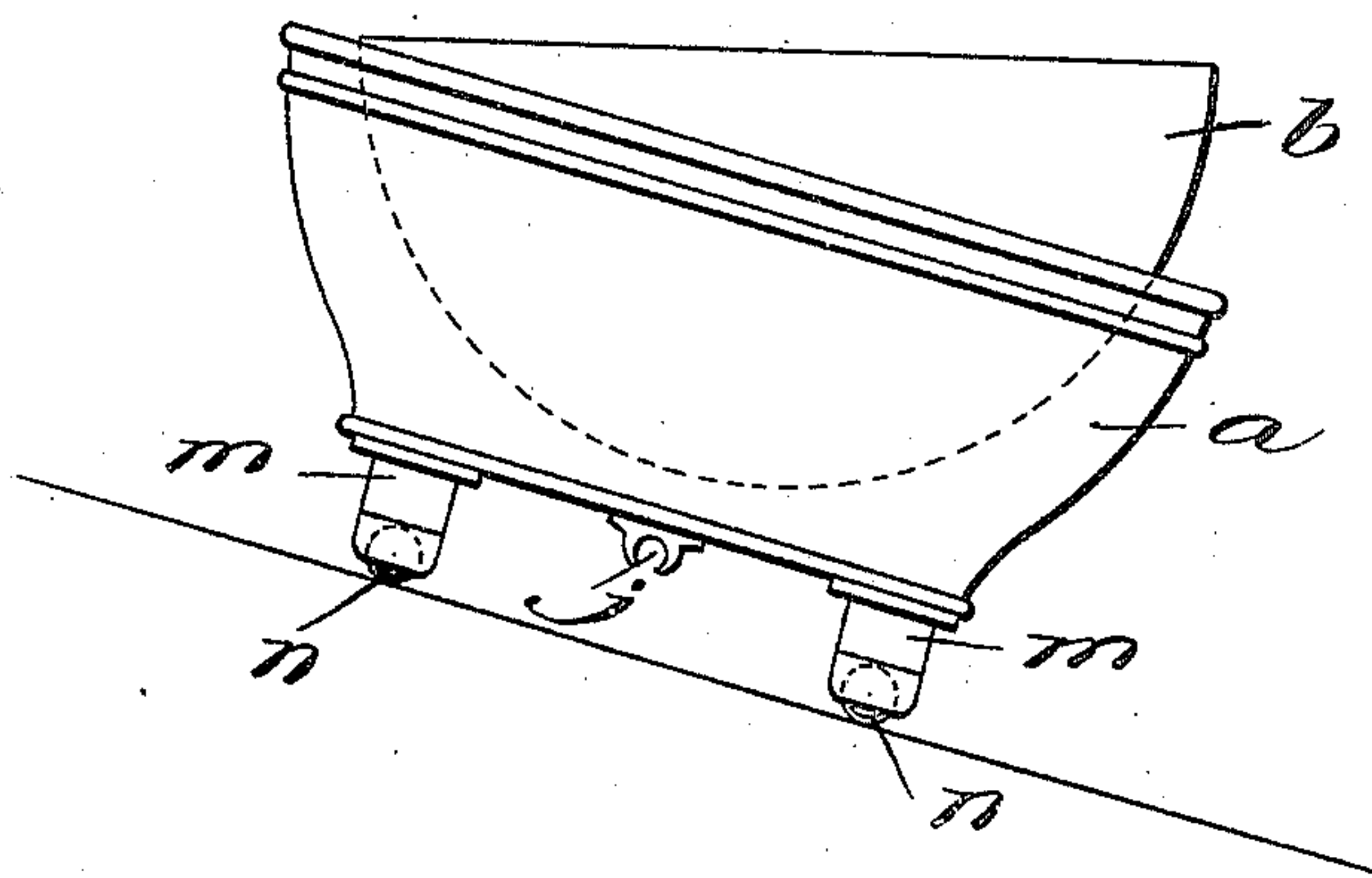


Fig. 3.



Witnesses
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CAR FOR ROLLER-COASTERS.

952,472.

Specification of Letters Patent.

Patented Mar. 22, 1910.

Application filed April 17, 1909. Serial No. 490,618.

To all whom it may concern:

Be it known that I, ALBERT G. SHARKEY, a citizen of the United States, residing in New York city, State of New York, have
5 invented a new and useful Improvement in Cars for Roller-Coasters, of which the following is a specification.

This invention relates to a car of novel construction for an amusement device commonly known as "roller coasters", and has for its principal object to provide a car of this character adapted to be subjected to a variety of different motions as it travels down the slideway, and at the same time
15 provide for the safety of the passengers.

A further object is to provide ball-bearings for the various engaging parts, whereby the friction is reduced to a minimum.

With these various objects in view, and
20 also certain other objects as will appear hereinafter, my invention consists in the novel features of construction, combination and arrangement, all of which will be fully described hereinafter, and pointed out in the claims.
25

In the drawing forming part of this specification: Figure 1 is a vertical sectional view of my improved car. Fig. 2 is a top plan view of the outer member of the car. Fig.
30 3 is a side elevation of the car showing one position of the parts thereof as the car travels down an incline.

My car consists of an outer hemispherical shell *a*, and an inner hemispherical shell *b*,
35 and between these shells, I arrange a plurality of anti-friction balls *c d*, for the purpose of reducing the friction to a minimum. A circumferential rib *e* is fastened upon the exterior of the inner shell *b*, and connected
40 to the upper end of the outer shell is an overlapping ring *g*, secured by screws *h*, the purpose of said ring being to limit the rocking motion of the inner shell, and anti-friction balls *i* are arranged between these two rings
45 to reduce the friction of these parts during the movements of said shells. A cable grip *j*, is arranged upon the bottom of the car to engage the cable for the purpose of being elevated up the starting point of the slide-
50 way. Seats *K* are arranged upon opposite sides of the inner shell of the car and said shell is also provided with a floor *l*. For the purpose of supporting the car, I employ the supporting legs or casters *m* which are preferably provided with the anti-friction balls
55 *n* which engage the surface of the slide-way,

but if desirable wheels may be used instead of balls.

When the car is placed on the slideway at the starting point thereof and released, its
60 own weight, and the added weight of the passengers, will cause the car to travel down the slideway, and if the slideway is constructed like the slideway set forth in my application for patent for "slideway for
65 amusement device", filed July 23, 1909, File No. 509180, the car in its travel down the slideway will turn around and around, will move up and down, will travel from one
70 side of the slideway to the other and the inner shell will turn and rock within the outer shell in accordance with the preponderance of weight.

I do not desire to limit myself to the precise details of construction and arrangement
75 of the parts herein shown and described as it is obvious that variations may be made without departing from the spirit of the invention.

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

1. A coaster car having a flat bottom, rollers carried by said bottom, a hemispherical body carried by said bottom, a second
85 hemispherical body arranged within the first, spaced from the first mentioned body and moving freely relative to the first mentioned body.

2. In a device of the kind described, a
90 car comprising an outer shell provided with ball-bearing casters or supporting legs, and an inner shell arranged within the outer shell and adapted to turn and rock within
95 said outer shell, said inner and outer shells being provided with means to limit the rocking motion of the inner shell.

3. In a device of the kind described, a car comprising an outer shell having ball-bearing casters or supporting legs, said
100 outer shell also having an inwardly projecting stop-ring, an inner shell having a stop ring surrounding the same and ball-bearings arranged between the said inner shell and outer shell, and stop ring, as set
105 forth.

4. In a device of the kind described, a car comprising the inner and outer shells, together with means for limiting the rocking movements of said inner shell, and ball-
110 bearings arranged between said shells, for the purpose specified.

5. A coaster car consisting of a hemispherical body, rolling supports for said body, a second hemispherical body arranged within the first, the second body having a rotary and a rocking movement with respect to the first.

6. In a roller coaster, a car having a concave interior, and a hemispherical passenger receptacle loosely arranged within the car, and anti-friction balls spacing the passenger receptacle from the concave sides of the car.

7. In a coaster, a car having a concavo convex body, means for imparting a swaying and tilting movement to said body during its travel, and a hemispherical body arranged within the concavo convex body, and having free relative movement with respect thereto.

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Witnesses:

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