

C. L. JOHNSON.
CABLE OR TRACK CONTROLLED AIRSHIP.
APPLICATION FILED DEC. 28, 1910.

989,156.

Patented Apr. 11, 1911.

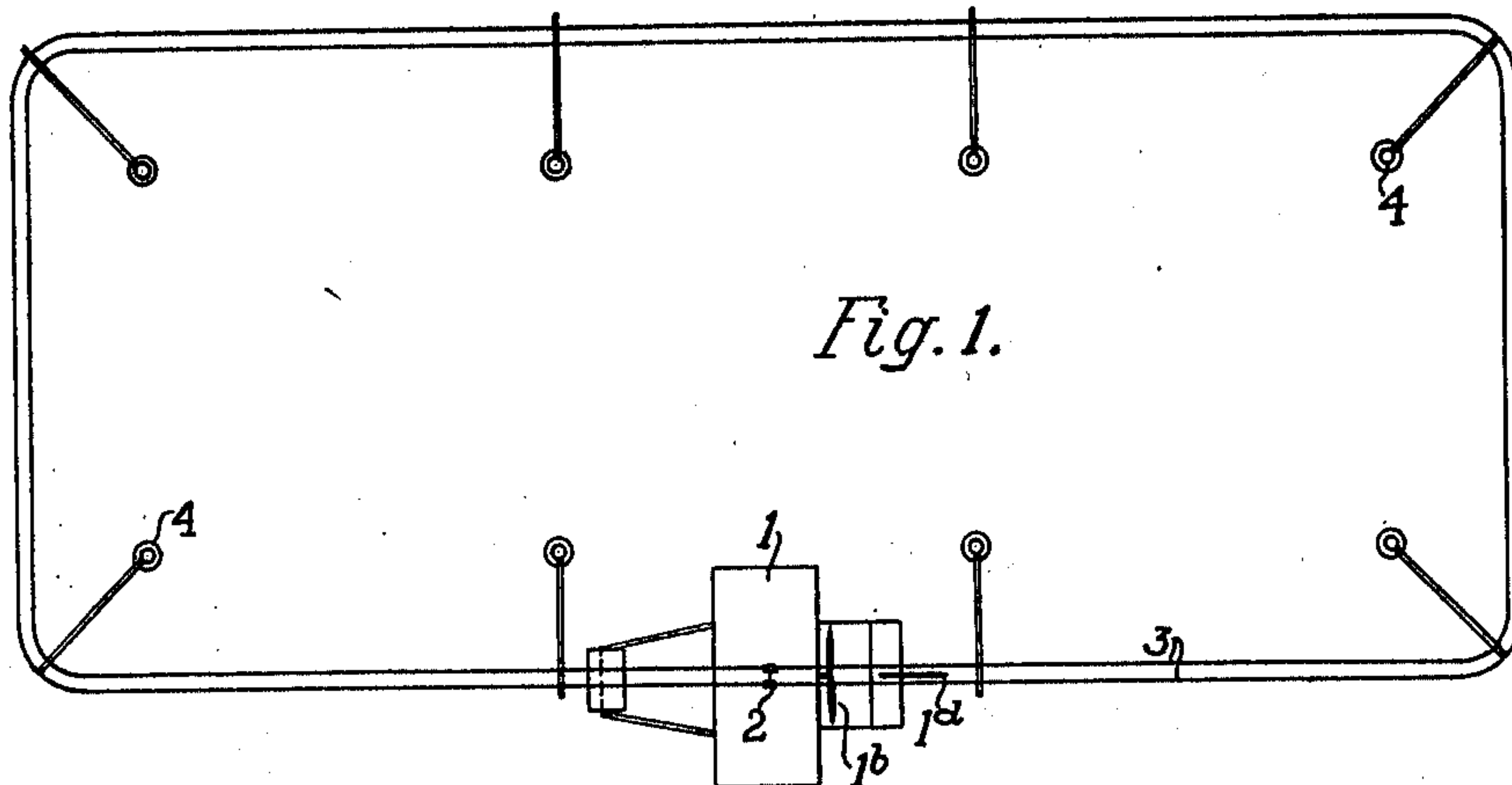


Fig. 1.

Fig. 3.

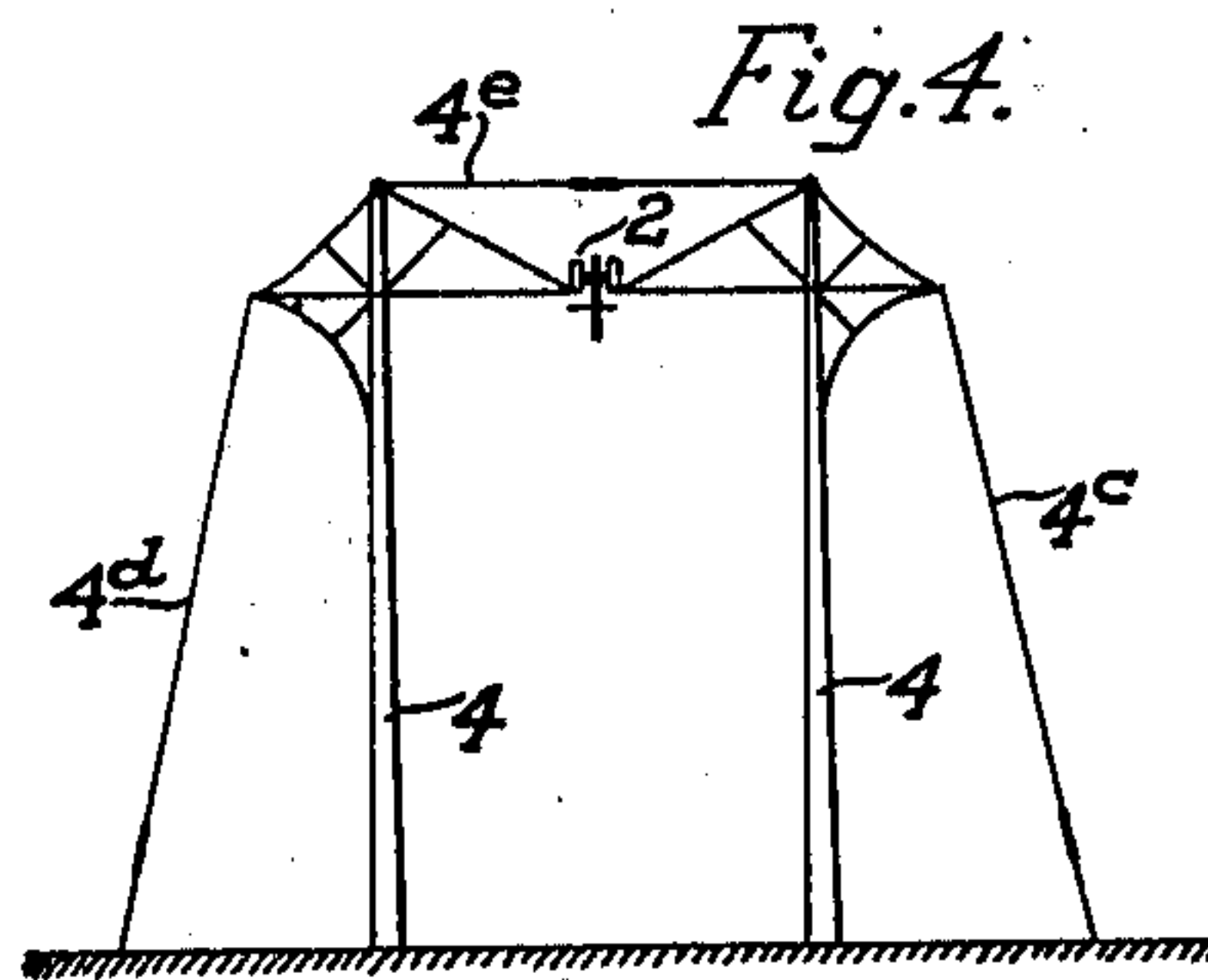
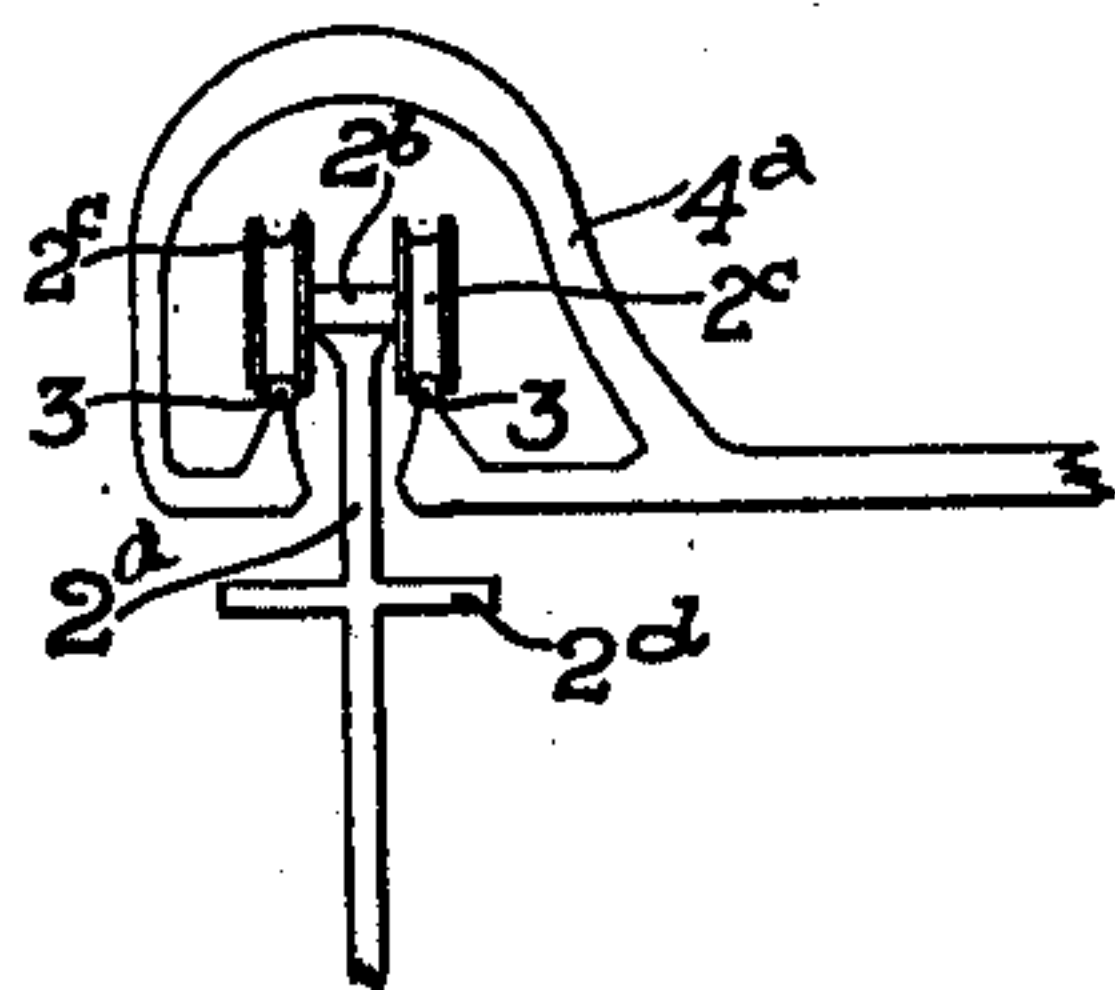


Fig. 4.

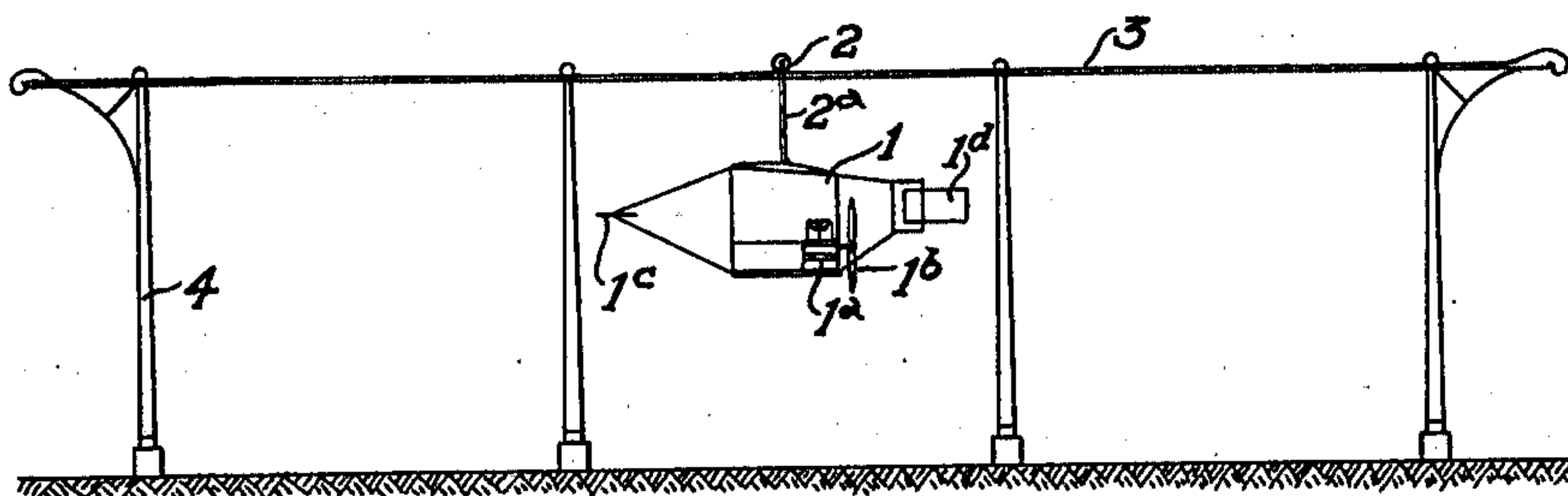


Fig. 2.

WITNESSES:

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CABLE OR TRACK CONTROLLED AIRSHIP.

989,156.

Specification of Letters Patent.

Patented Apr. 11, 1911.

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To all whom it may concern:

Be it known that I, CHARLEY L. JOHNSON, a citizen of the United States, and a resident of San Diego, in the county of San Diego and State of California, have invented certain new and useful Improvements in Cable or Track Controlled Airships, of which the following is a specification.

My invention relates to aerial or scenic railway apparatus for captive self-propelled airships for amusement purposes, and the objects are, first, to provide a simple, economically constructed and safe amusement device; second, to provide means for substantially controlling and guiding self-propelled airships of different kinds and classes.

With these and other objects in view as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts, as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the characters of reference thereon, which form a part of this specification.

In the drawings, Figure 1 is a plan view showing the track and an airship in connection therewith, Fig. 2 is a side elevational view thereof, Fig. 3 is a detail view, showing the construction of the extended arm and tracks in connection therewith and the carriage mounted thereon, and Fig. 4 shows the track and supports in a slightly modified form in which two supports are used instead of one.

Similar characters of reference refer to similar parts throughout the several views.

In the drawings numeral 1 represents a self-propelled airship, 2 a carriage, 3 an endless track, 4 supports of cable or track.

The airship is self propelled and guided, it being provided with an engine 1^a in connection with the propeller 1^b, and is also provided with front and rear guide planes 1^c and 1^d. This airship is supported centrally by means of support 2^a which is connected to an axle 2^b which is suitably mounted upon flanged rollers 2^c. Some distance below rollers 2^c is provided a guard 2^d. This guard is for the purpose of keeping the carriage 2 from escaping from the track in case the airship should rise, or from any other cause.

The rollers 2^c are adapted to roll on track 3 which in this case I have shown to be an

endless cable, but if desired, this track may be used in a line from one point to another, and the airship be run back and forth thereon. This track 3 is connected to extended arms 4^a. These arms are extended laterally from the vertical portion of support 4, a sufficient distance to provide a space for the free passage of the airship and are shaped and connected to the track as shown best in Fig. 3. In Fig. 4 are shown similar supports used in pairs, one on each side of the tracks and one track attached to each support. These supports in pairs are also provided with turnbuckle adjustable cables 4^c, 4^d, and 4^e, adapted to substantially brace said supports.

Though I have shown and described a particular construction and arrangement in connection with an aeroplane, I do not wish to be limited to this particular construction, and arrangement or to the use of aeroplanes in connection therewith, but desire to embody in the invention, the construction, combination and arrangement substantially as set forth in the appended claims.

It will be readily seen that I have provided a simple and easily constructed amusement device or scenic railway that is perfectly safe for carrying passengers, is durable and easily operated.

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

1. In a cable or track controlled air ship, the combination of a plurality of supports, arms mounted thereon, tracks mounted on said arms, a pair of rollers with grooved surfaces mounted on an axle adapted to travel on said tracks, guard means for preventing said rollers from escaping from said track, an air ship suspended on said rollers, engine means in said airship for propelling it and means on said airship for steering it, all substantially as set forth.

2. In a cable or track controlled air ship, the combination of a plurality of supports provided with laterally extending arms, a plurality of cables mounted on said arms, a power propelled airship mounted on said cables, guard means for preventing said air ship from escaping from said cables, planes on said air ship adapted for guiding it, and propellers on said air ship adapted to be driven by a power means located in said airship, all substantially as set forth.

3. In a cable or track controlled amuse-

ment device, the combination of a plurality of posts suitably spaced apart, lateral arms on said posts extending some distance therefrom, tracks mounted on the extended ends
5 of said arms, a pair of rollers with grooved surfaces mounted on an axle and adapted to travel on said tracks, a supporting means attached to said axle, an air ship mounted on said supporting means, engine means in said
10 air ship, propellers on said airship adapted to be driven by said engine means and to propel said airship along said cables or tracks, means for steering and guiding said air ship, and a guard means for preventing
15 said rollers from escaping from said tracks, all substantially as set forth.

4. In a device of the kind described, the combination of a plurality of supports provided with laterally extending arms, two
20 spaced apart parallel horizontal tracks or cables mounted on said extending arms, a pair of grooved rollers mounted on an axle and adapted to travel on said tracks or cables, a support attached to said axle between said rollers and adapted to be attached
25 to an engine driven air ship, means for

steering said air ship, and planes adapted for guiding it, all substantially as set forth.

5. In a cable or track controlled air ship, the combination of a plurality of supports, 30 lateral arms on one side of said supports extending some distance therefrom, a portion of said arms forming an inverted U, then bent at right angles, and extending upward, cables mounted on the extended ends 35 of said arms, a pair of rollers mounted on an axle and adapted to travel on said cables, a supporting means attached to said axle, a self propelled airship mounted on said supporting means, means in connection with 40 said airship for guiding same, and guard means for preventing said rollers from escaping from said cables, all substantially as set forth.

In witness whereof, I hereunto subscribe 45 my name in the presence of two subscribing witnesses,

CHARLEY L. JOHNSON.

Witnesses:

ABRAM B. BOWMAN,
MARY A. BOWMAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."