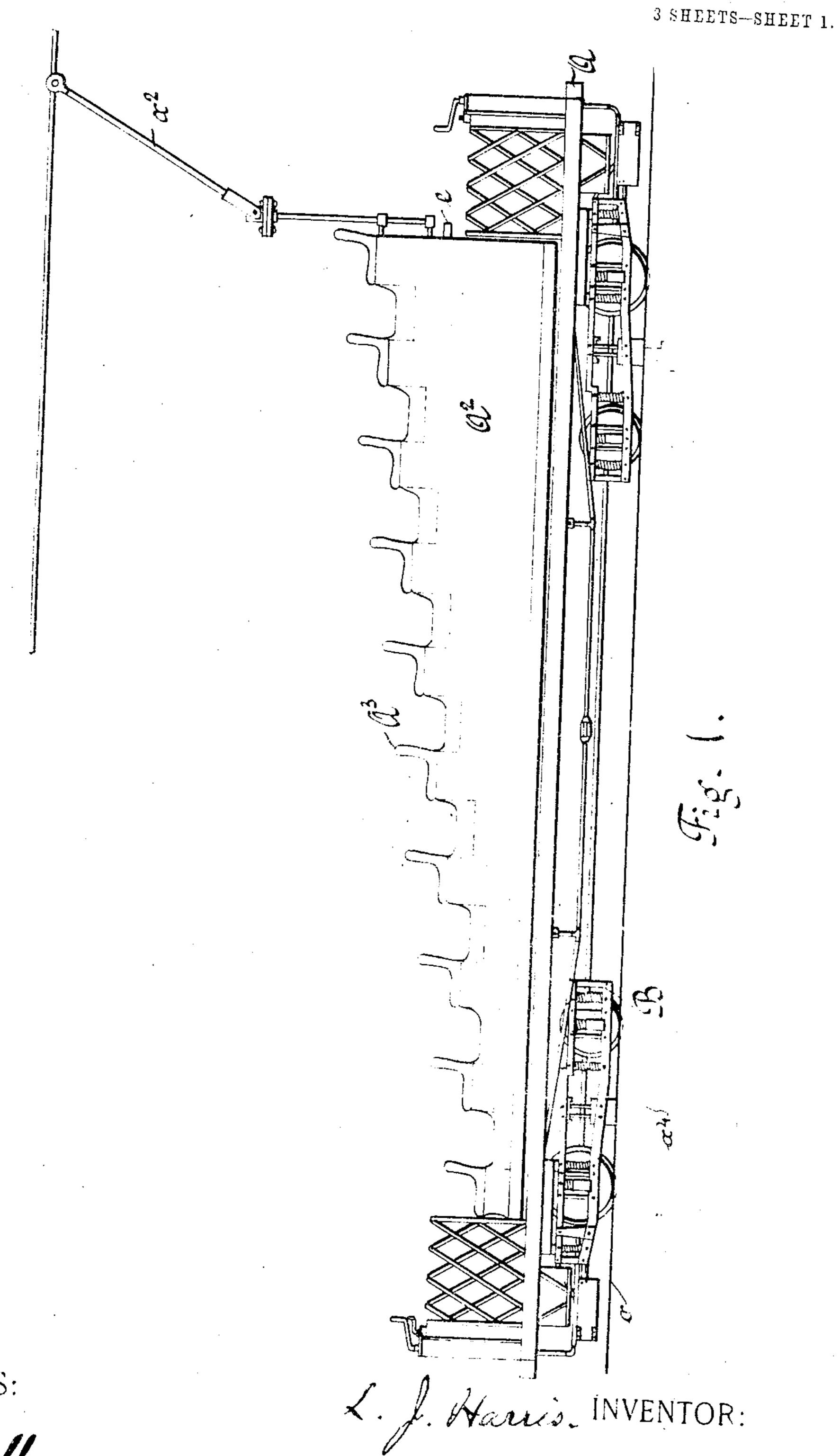
PATENTED JAN. 23, 1906.

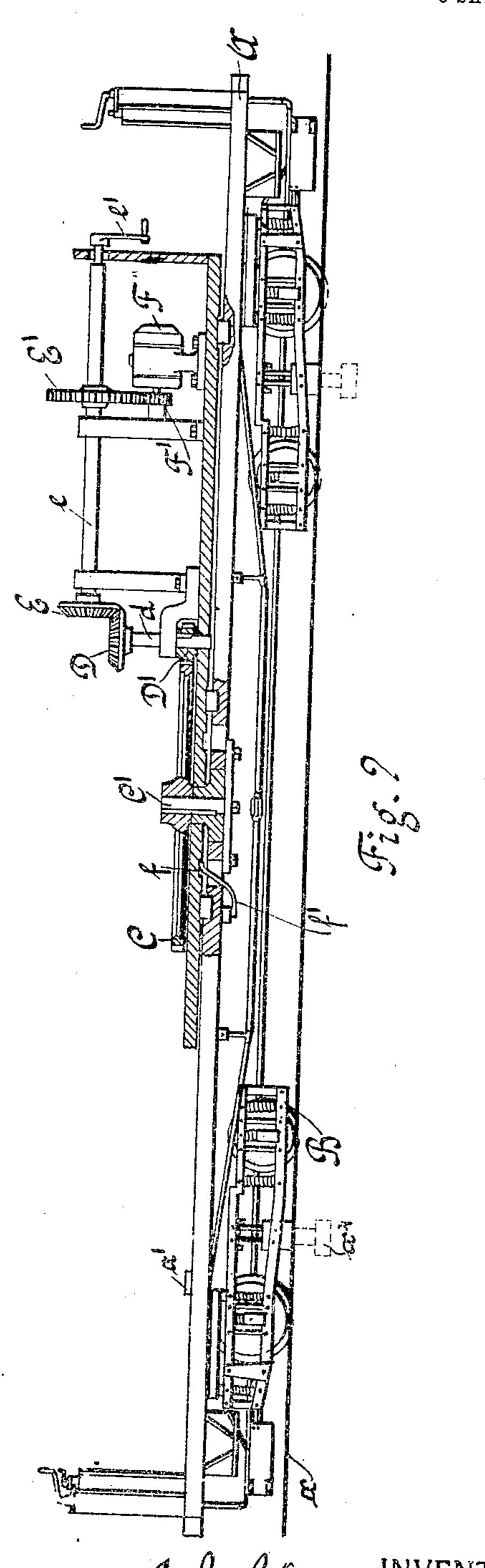
L. J. HARRIS. OBSERVATION TROLLEY CAR RAILWAY. APPLICATION FILED JULY 14, 1905.



By his Attorney L.O. Forker

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3 SHEETS-SHEET 2.



WITNESSES: J. Florzog. A. M. Ball

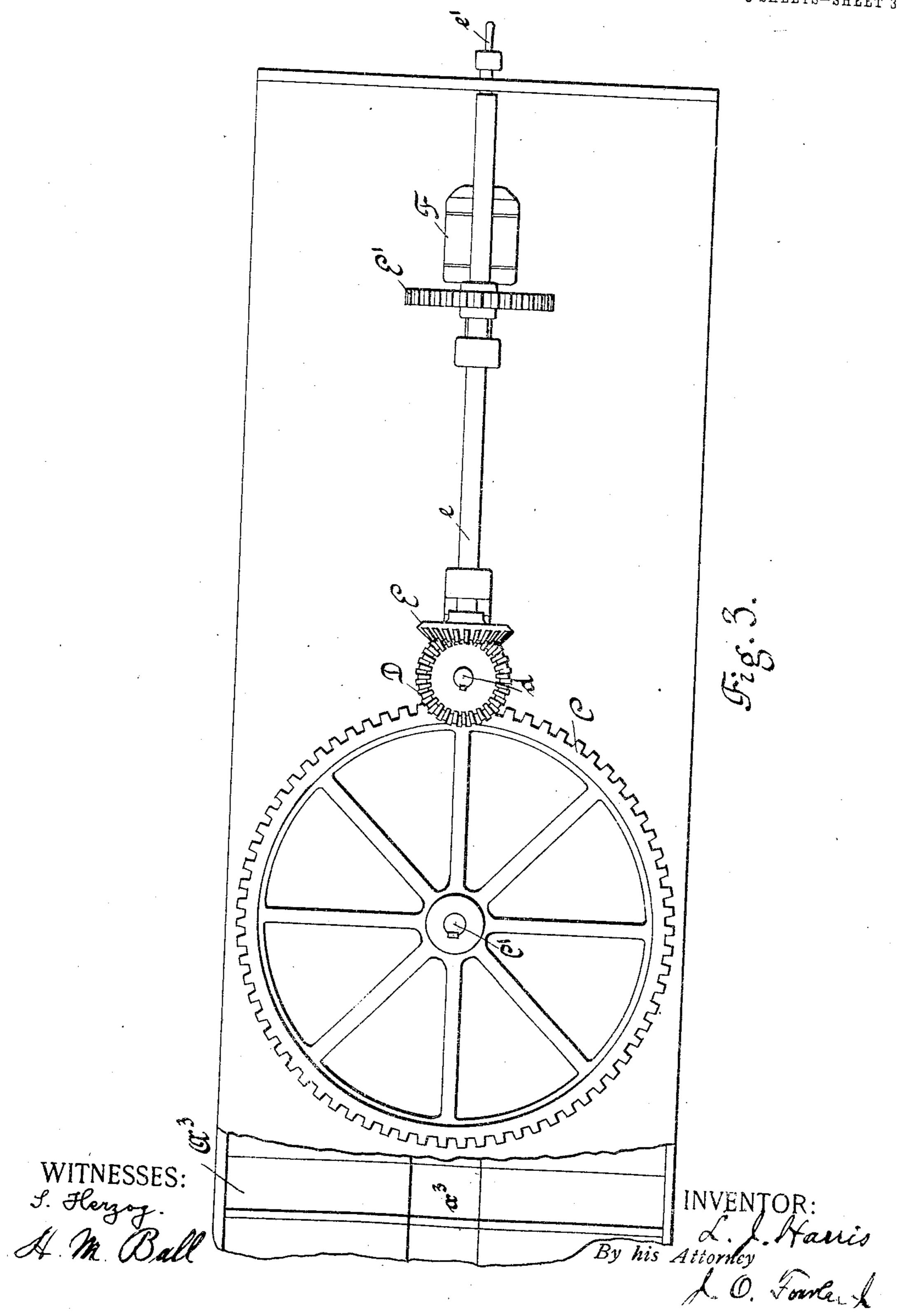
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3 SHEETS-SHEET 3.



UNITED STATES PATENT OFFICE.

LOUIE J. HARRIS, OF NEW YORK, N. Y.

OBSERVATION-TROLLEY-CAR RAILWAY.

Specification of Letters Patent. Application filed July 14, 1905. Serial No. 269,719. Patented Jan. 23, 1906.

To all whom it may concern: State of New York, have invented a certain new and useful Observation-Trolley-Car Railway, of which the following is a specificato able others skilled in the art to which it ap-

pertains to make and use the same.

This invention relates to a new construct the gear E' and pinion F'. 15 versely of the car and in which the rows of ably electrically connected with a metal ring seats are preferably separated by a central f, on which a spring-finger f'' continuously aisle or passage-way and are placed successively in higher planes on the body of the car from one end of the car to the other. Means 20 are also provided by which the car-body may be rotated upon its axis and turned around a sufficient distance for the seats to face in a different direction and opposite to that they formerly occupied without switching the car-25 truck to another track or running the car on

a turn-table. ed out in the drawings, which show the pre- form suitable antifriction devices may be emferred embodiment and arrangement of the ployed-as, for example, rollers a'. details of the invention and which accompany and form a part of this specification,

35 and in which—

Figure 1 represents a side elevation of an observation-trolley-car railway constructed according to my invention. Fig. 2 is a longitudinal section of the mechanism by means of 40 which the car-body may be rotated on the platform of the truck, and Fig. 3 is a plan view showing the arrangement of the seats and the car-body-operating mechanism.

Like letters of reference indicate like parts

45 in all the views. Referring particularly to the drawings, A denotes the platform of the car, supported by trucks B of any ordinary or suitable description and construction and running on a track 50 a. A car-body is supported by the platform in a movable relation, preferably as follows: Fixed to the bottom of the car-body A', which is supported by the platform A, is a horizontal gear - wheel C, the shaft C' of 55 which preferably passes through the bottom of the car-body and is suitably and rigidly l

! fastened to the platform A. The teeth of the Be it known that 1, Louie J. Harris, a citi- wheel C preferably mesh with the pinion D', zen of the United States of America, and a located ordinarily within the car-body and resident of New York, in the county and secured to the vertical shaft d, which carries 60 engage with a bevel-gear E, carried by a horizontal shaft e, supported in suitable bearings. The shaft e also preferably carries a geardescription of the invention, such as will en- wheel E', which engages with the pinion F' 65 ing gears may be substituted, if desired, for

The motor F, which is controlled in the orin which the seats are arranged to lie trans- dinary manner by a suitable switch, is prefer- 70 bears, the electric circuit being thus completed between the motor F, which is electrically connected with the ring f, and the 75 said spring-finger f' being in electric connection with the current-picking-up device of the vehicle, which may be of any suitable or wellknown form, as a plow or trolley-arm, which devices also serve to actuate electric motors 80 by which the trucks are impelled in the ordinary manner. The shaft e may also be manually actuated, as by a hand-crank e', if presists in certain novel features of construction | ferred, in order to turn the car-body around and arrangement of parts, all of which will be on the platform A, and in order to lessen the 85 30 hereinafter described, and specifically point- friction between the car-body and the plat-

The current-picking-up devices may consist, as stated, of a plow a, attached to the 90 trucks in the ordinary manner, or of a trolleyarm a² of any ordinary or suitable construction attached to the ear-body A'. The said car-body preferably has a central longitudinal passage-way a3, running between the 95 stepped seats A³, and the said car-body may also be provided with any suitable or desirable top or covering, if desired, in order to protect the passengers from the heat of the sun or from rain.

Among other great advantages of the use of this invention are the unobstructed views obtained by passengers of objects of interest along the routes traveled and the fact that the car-body may be swung out at an angle to the 105 car-track in case such a point of view is desired on any occasion and also the ease with which the car-body may be reversed at one operation when at the end of the line and the car started back again in the opposite direc- 110 tion to that formerly pursued by the same. As it is evident that many changes in the

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construction, form, proportion, and relative arrangement of parts might be resorted to without departing from the spirit and scope of my invention, I would have it understood that I do not restrict myself to the particular construction and arrangement of parts shown and described and that such changes and equivalents may be substituted therefor and that

• What I claim as my invention is—

1. In an observation-trolley-car railway, a track, a pair of trucks movable along the track, a platform carried by the trucks, a carbody rotatably supported by the platform intermediate the said trucks, an electric conductor and a traveling contact to engage therewith.

2. In an observation-trolley-car railway, a track, a pair of trucks movable along the track, a platform supported by the trucks, a car-body rotatably supported by the platform intermediate the said trucks, means to rotate the car-body, an electric conductor and a traveling contact to engage therewith.

3. In an observation-trolley-car railway, a

track, a pair of trucks movable along the track, a platform supported by the trucks, means to impart movement to the said trucks, a car-body having a series of stepped seats rotatably supported by the platform intermediate of said trucks, an electric conductor, and a traveling contact to engage therewith.

4. In an observation-trolley-car railway, a track, a pair of trucks movable along the 35 track, a platform supported by the trucks, a car-body having a series of stepped seats and rotatably supported by the platform intermedial of the said trucks, means to rotate the carbody, an electric conductor and a traveling 40 contact to engage therewith.

In testimony of the foregoing specification I do hereby sign the same, in the city of New York, county and State of New York, this

26th day of June, 1905.

LOUIE J. HARRIS.

Witnesses:

J. N. AFT, M. H. WAYLAND.