

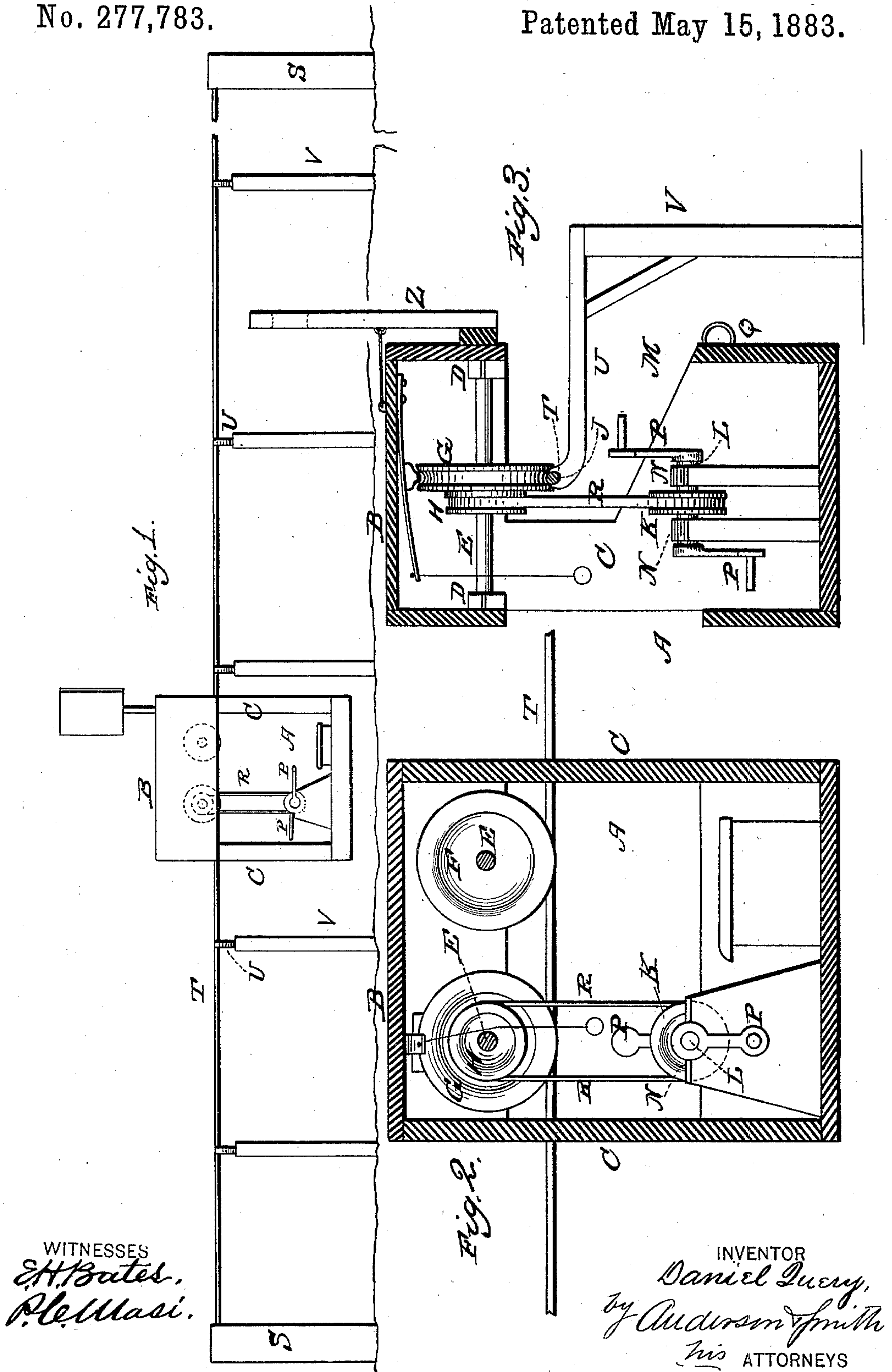
(No Model.)

D. QUERY.

SUSPENSION RAILROAD CAR.

No. 277,783.

Patented May 15, 1883.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

DANIEL QUERY, OF ATKINSONVILLE, INDIANA.

## SUSPENSION RAILROAD-CAR.

SPECIFICATION forming part of Letters Patent No. 277,783, dated May 15, 1883.

Application filed January 17, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, DANIEL QUERY, a citizen of the United States, residing at Atkinsonville, in the county of Owen and State of Indiana, have invented certain new and useful Improvements in Suspension Railroad-Cars; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a side view of my device. Fig. 2 is a vertical sectional view of the same, and Fig. 3 is a cross-sectional view.

This invention relates to devices for traveling overland or across water; and it consists in the construction and novel arrangement of the stretched cable, its end abutments and lateral supporting - arms having upwardly-turned ends formed with terminal grooves to receive the wire cable, the car suspended from an overhanging top by vertical arms on one side rigidly secured to the top and car-body and supported on the cable by grooved wheels below the top, the shaft of one of said wheels being connected to a shaft supported in bearings in the car by a band and pulleys engaging the same, the lower shaft being provided with crank-handles on its ends, all as hereinafter set forth.

In the annexed drawings, the letter A designates the body of the car, and B the top thereof, connected to the body by the vertical arms C, which are rigidly attached to the top and body and are both arranged on the same side, so as to leave a free interval or opening between the top and body on the opposite side, as shown.

D D represent bearings secured to the top of the car for the shafts E of the large supporting-wheels F and G.

On the shaft of the wheel G is rigidly attached a pulley, H, which is connected to a pulley, K, on a lower shaft, L, which is seated

in bearings N, which are secured to the car-body. The shaft L is provided at its ends with crank-handles P, whereby the pulley K is turned, and by means of a connecting-belt, R, communicates motion to the shaft E and wheel G.

The wheels F and G are arranged in the same vertical plane, one in front of the other, and bear on the wire cable T.

The cable is stretched between abutments S and supported intermediately by laterally-projecting arms U, which are rigidly secured to strong uprights V and firmly braced in horizontal position. The ends of the arms U are turned upward, and their extremities are formed with horizontal grooves J, extending in the direction of the length of the cable and serving to receive the cable, which is held and supported thereby.

Z indicates a hinged arm, which is attached to the top of the car, and is of sufficient length to extend downward across the open side thereof to the car-body, to which it is connected, when the car is not moving, by a staple and padlock or any common fastening, Q. When the car is in motion, the arm Z is raised to clear the opening M and allow the car to pass the lateral supporting-arms U.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with the wire cable, its end abutments, and lateral supporting-arms having upwardly-turned ends formed with terminal grooves, of the car suspended from the overhanging top by rigid vertical arms on one side, and supported on the cable by grooved wheels below the top and connected to bearings thereof, the crank-shaft pulleys and connecting-belt, and the hinged arms spanning the side opening of the car and provided with an end fastening, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL QUERY.

Witnesses:

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T. D. STILWELL.