T. J. DRIVER.
ELEVATED CARRIER.
APPLICATION FILED JAN. 13, 1911.

1,000,242. Patented Aug. 8, 1911.

2 SHEETS—SHEET 1.

Fig. 1

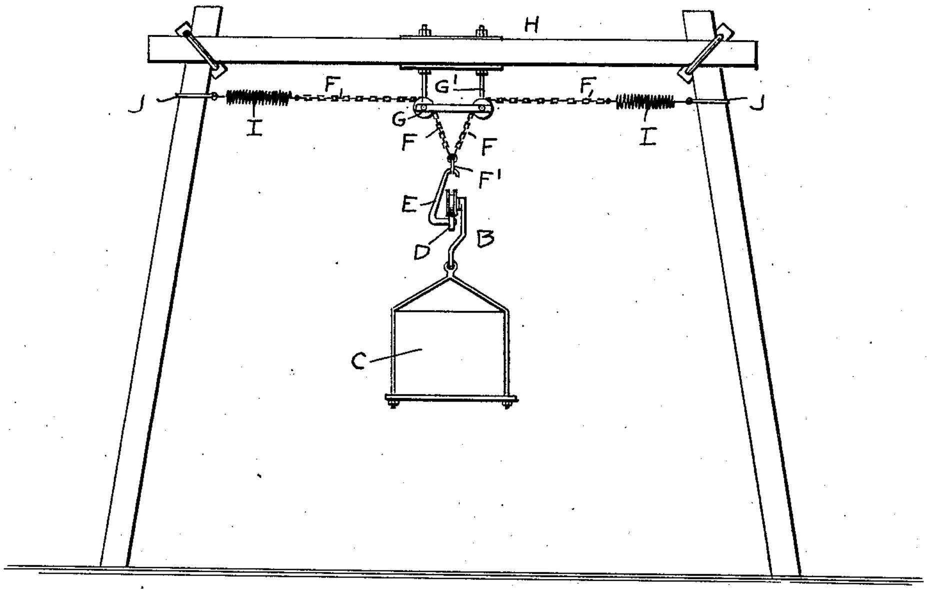
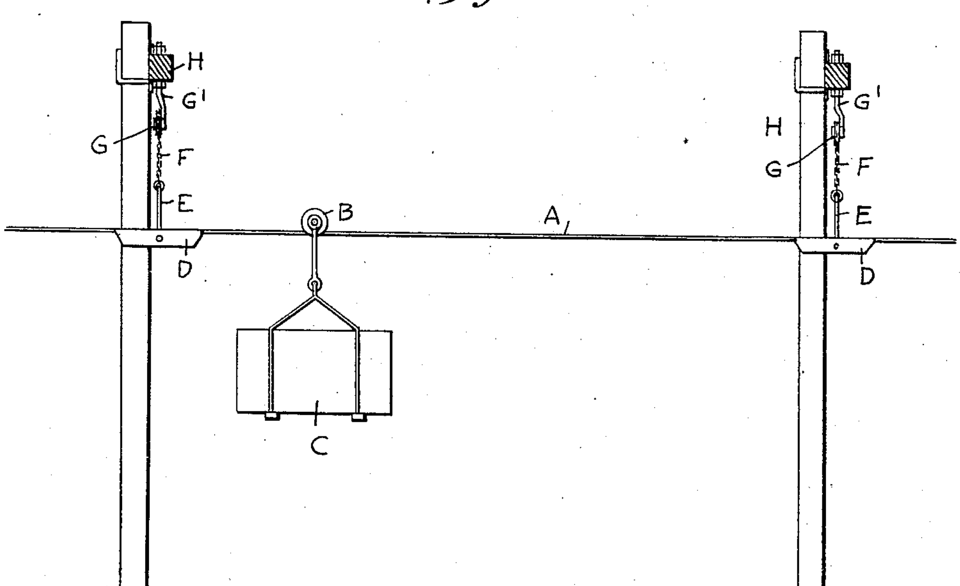


Fig. 2



WITNESSES

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Fig. 3

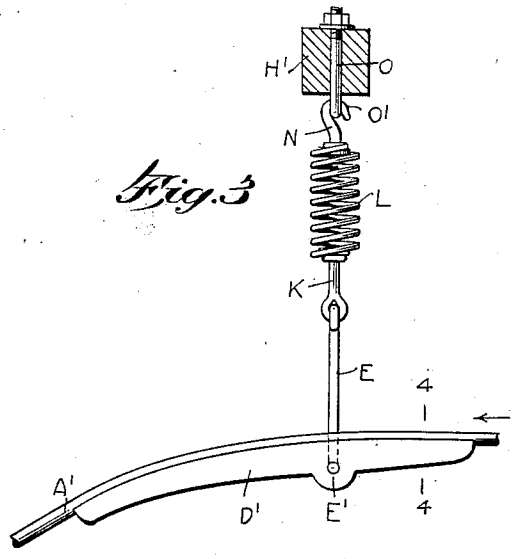


Fig. 6

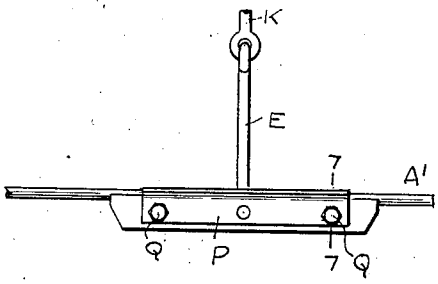


Fig. 5

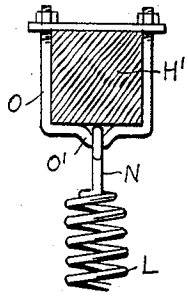


Fig. 4

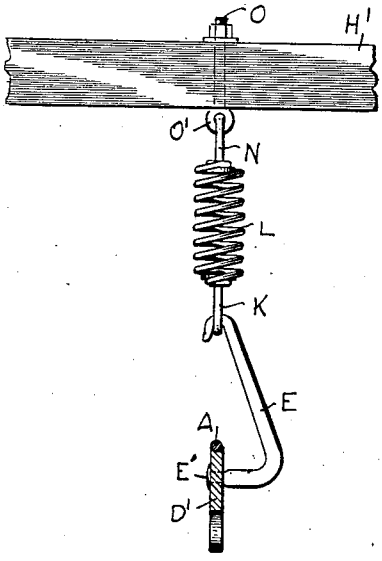
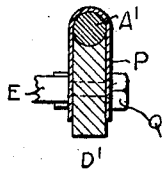


Fig. 7



WITNESSES

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UNITED STATES PATENT OFFICE.

THOMAS JEFFERSON DRIVER, OF HONOLULU, TERRITORY OF HAWAII.

ELEVATED CARRIER.

1,000,242. Specification of Letters Patent. **Patented Aug. 8, 1911.**

Application filed January 13, 1911. Serial No. 602,408.

To all whom it may concern:

Be it known that I, THOMAS JEFFERSON DRIVER, a citizen of the United States, and a resident of Honolulu, in the county of Honolulu and Territory of Hawaii, have invented a new and Improved Elevated Carrier, of which the following is a full, clear, and exact description.

The invention relates to elevated carriers for the transportation of field products, merchandise and the like.

The object of the invention is to provide a new and improved elevated carrier arranged to yieldingly support the cable which forms the track for the lower supporting trolley or carriage to run on, so that the cable is not liable to leave the support especially along abrupt changes in the grade of the track or cable.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is an end elevation of the elevated carrier; Fig. 2 is a side elevation of the same; Fig. 3 is an enlarged side elevation of a modified form of the elevated carrier; Fig. 4 is a cross section of the same on the line 4—4 of Fig. 3; Fig. 5 is a cross section of another modified form of elevated carrier; Fig. 6 is a like view of another modified form of the elevated carrier; and Fig. 7 is an enlarged cross section of the same on the line 7—7 of Fig. 6.

The cable A over which travels the trolley or carriage B, supporting the sugar cane, merchandise or other load C, is supported at suitable intervals by supporting bars D provided at their top edges with grooves or seats for the reception of the cable A, as plainly indicated in Figs. 4 and 7. The supporting bar D is pivotally supported on the pivot E′ of a hanger E depending from a ring F′ held on chains F extending upwardly and passing over guide pulleys G journaled in bearings G′ attached to a supporting framework H, of any approved construction. The chains F are connected with springs I attached by clips or other fastening devices J to the framework H, so that the supporting bar D of the hanger E is yieldingly supported from the springs I by the use of the chains F and hence the cable A is free to yield and is securely held in the supporting bar or chute D when the trolley B with its load passes over the cable at the point of suspension.

As shown in Figs. 3 and 4, the supporting bar D′ is pivoted on the pivot E′ of the hanger E at a point about one-third the distance from the receiving end of the supporting bar, and the hanger E is suspended from a swivel K held in the lower end of a spring L connected at its upper end by a swivel N to the eye O′ of a bolt O attached to the framework H′. Thus by the arrangement described the supporting bar D′ is yieldingly supported on the spring L and the rear end of the supporting bar is curved according to the abrupt changes in the grade of the track, so that the cable A is not liable to leave the supporting bar D′ as the latter is free to swing on the pivot E′ and is yieldingly supported from the spring L.

If desired, a clip P may be employed extending over the cable A′ and fastened at its side by bolts Q to the supporting bar D′, as plainly indicated in Figs. 6 and 7.

The bolt O may be in the shape of a U-shaped bolt, as indicated in Fig. 5.

From the foregoing it will be seen that by the arrangement described the cable is yieldingly supported so that the cable is not liable to leave the supporting bars D, D′ especially along abrupt changes in the grade of the track or cable A.

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

1. An elevated carrier provided with a cable forming a track for the trolley to run on, a supporting bar having a seat for the cable to rest in, a hanger engaging the said supporting bar, flexible connections on which the said hanger is suspended, a framework, springs connecting the said framework with the said flexible connections, and guide pulleys carried by the said framework and over which pass the said flexible connections.

2. In an elevated carrier, the combination of a cable forming a track for a trolley to run on, a supporting bar for sustaining said cable, a framework, and mechanism connected with said framework and with said supporting bar for the purpose of supporting the latter, said mechanism including flexible connections extending in opposite directions to said framework, and springs dis-

posed upon opposite sides of said supporting bar.

3. In an elevated carrier, the combination of a cable forming a track for the trolley to run on, a supporting bar engaging the cable and adapted to sustain the same, a hanger connected with said supporting bar, flexible connections secured to said hanger and extending in different directions therefrom, guide pulleys engaging said flexible connections and disposed on opposite sides of the cable, yielding members secured to said flexible connections for allowing movement to the supporting bar, said yielding members being disposed upon opposite sides of said supporting bar and secured to said framework.

4. The combination of a cable forming a track, a supporting bar engaging said cable, a hanger connected with said supporting bar for sustaining the same, flexible connections secured to said hanger, guide pulleys engaging said flexible connections and disposed upon opposite sides of the cable, a framework, springs disposed from opposite sides of said cable and secured respectively to said flexible connections, and a framework connected with said springs.

5. An elevated carrier provided with a cable forming a track for the trolley to run on, a supporting bar having a seat for the cable to rest in, a hanger having a pivot on which the said supporting bar is pivotally supported, a framework, a spring device for yieldingly supporting the said hanger, and means for fastening said spring device to said framework.

6. The combination of a stationary supporting member, a substantially U-shaped member partially encircling the same, means for holding said substantially U-shaped member upon said supporting member, a spring connected with said substantially U-shaped member, and means for mounting a cable upon said spring.

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

THOMAS JEFFERSON DRIVER.

Witnesses:
L. C. CHILD,
J. P. CURTS.