

C. LEWELLEN.
ELEVATED CABLE RAILROAD.
APPLICATION FILED AUG. 16, 1910.

993,259.

Patented May 23, 1911.

3 SHEETS-SHEET 1.

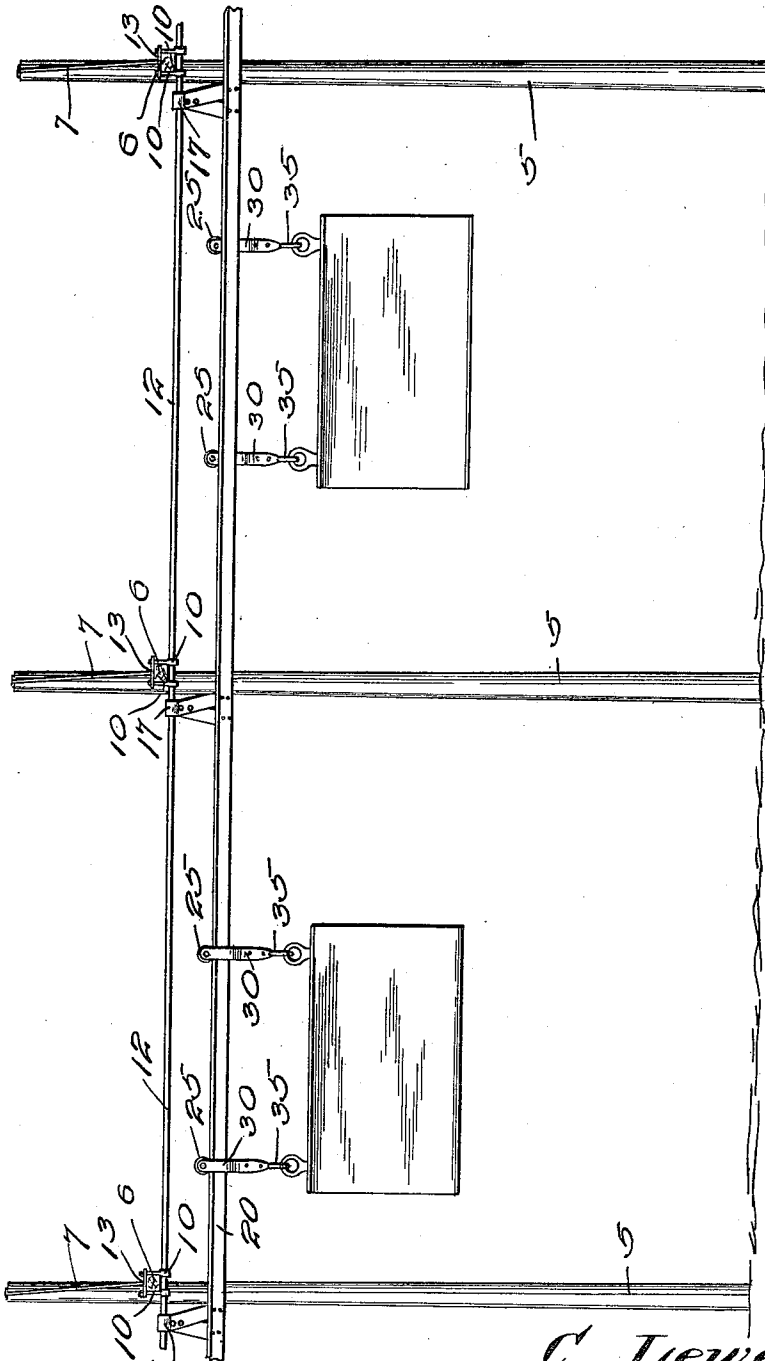


Fig. 1

Witnesses
J. A. Cunningham
J. E. Burch.

Inventor
C. Lewellen,

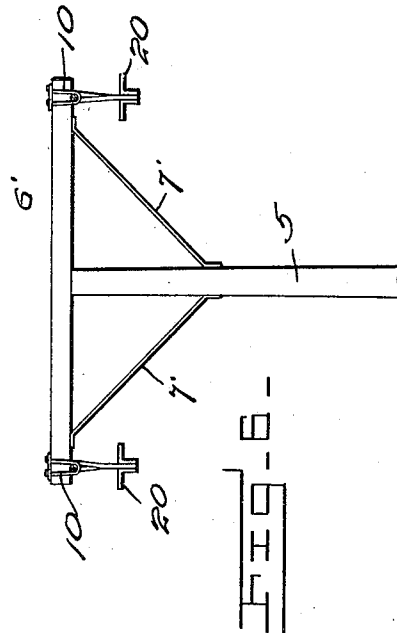
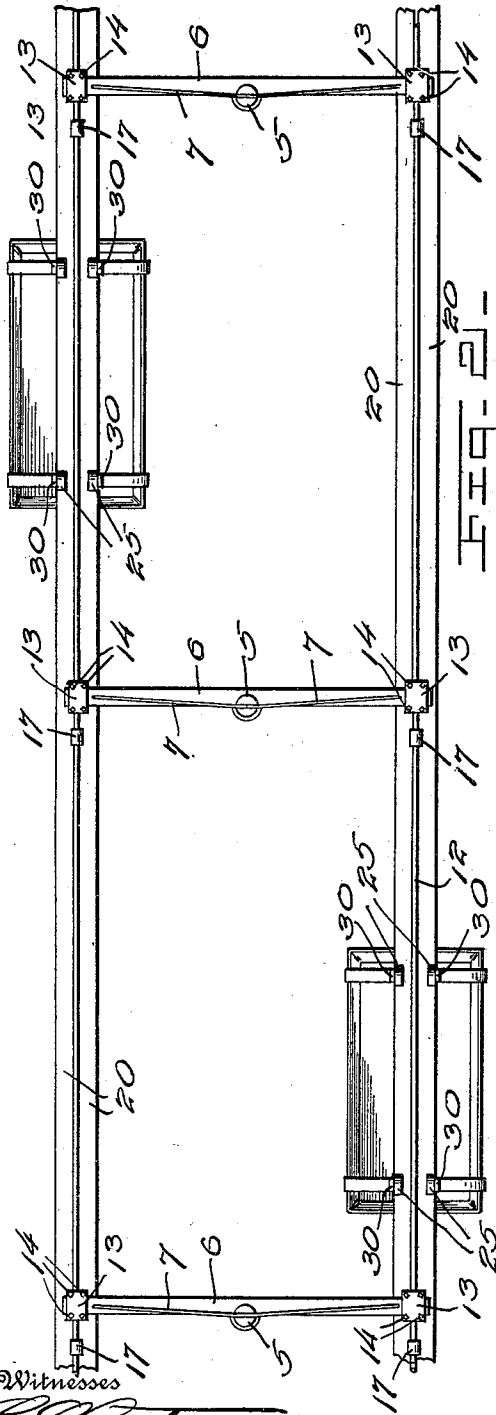
By *Howard & Chandler*
Attorneys

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3 SHEETS—SHEET 2.



Witnesses

J. E. Burch.

Inventor
C. Lewellen,

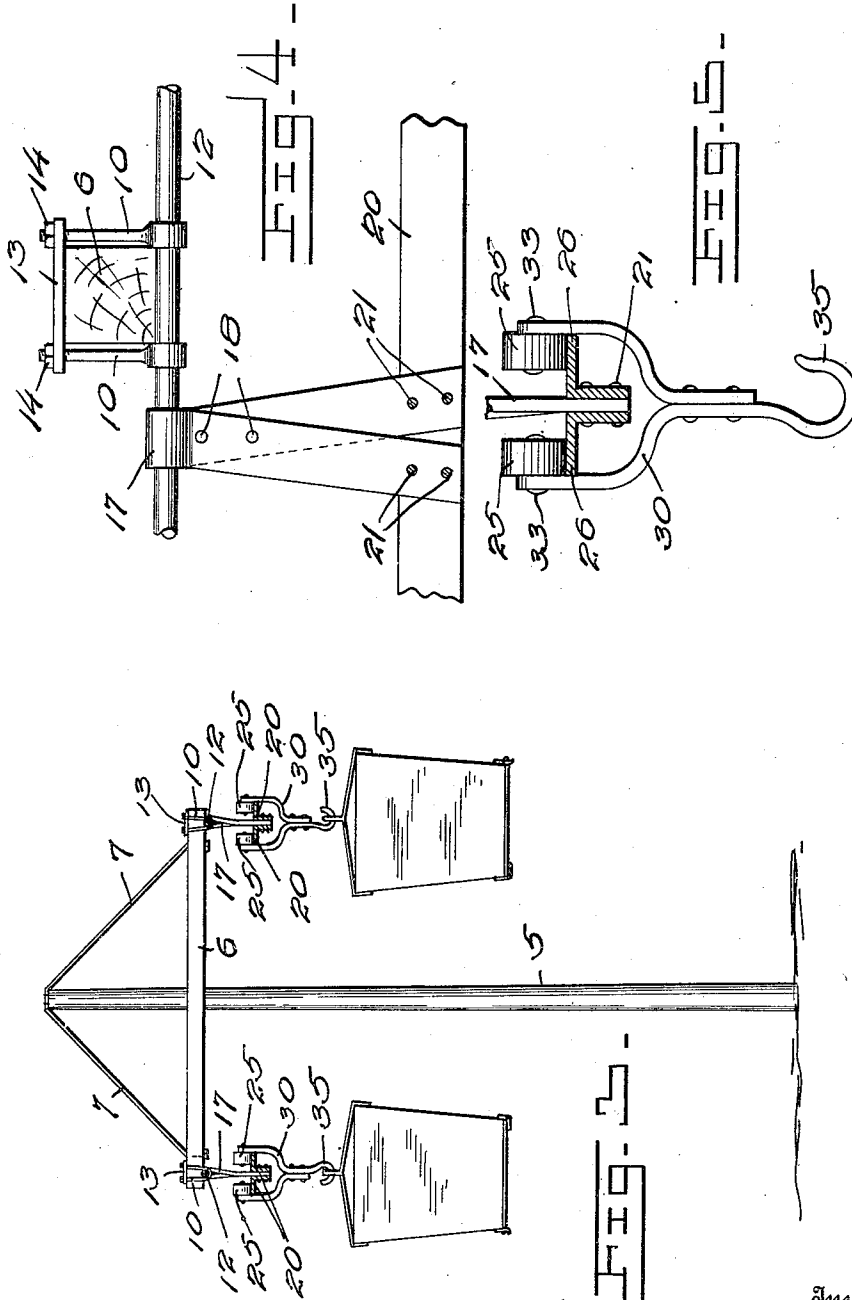
By *Stoddard & Chandler*
Attorneys

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3 SHEETS-SHEET 3.



Witnesses
J. A. Linn
J. E. Burch

Inventor
C. Lewellen

By *Howard & Charles*
Attorneys

UNITED STATES PATENT OFFICE.

CANDY LEWELLEN, OF CRAWFORDSVILLE, INDIANA.

ELEVATED CABLE-RAILROAD.

993,259.

Specification of Letters Patent. Patented May 23, 1911.

Application filed August 16, 1910. Serial No. 577,441.

To all whom it may concern:

Be it known that I, CANDY LEWELLEN, a citizen of the United States, residing at Crawfordsville, in the county of Montgomery and State of Indiana, have invented certain new and useful Improvements in Elevated Cable-Railroads, of which the following is a specification.

This invention has relation to certain new and useful improvements in elevated cable railroads.

The primary object of my invention is to provide an elevated transportation system, including a carrying cable from which is suspended an angle iron track.

With the above and other objects in view, the present invention consists in the combination and arrangement of parts as will be hereinafter more fully described and particularly pointed out in the appended claims, it being understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 shows a side elevation of an elevated cable railroad embodying my invention, Fig. 2 shows a top view, Fig. 3 shows an end view, Fig. 4 shows an enlarged detached detail disclosing the method of securing the strap metal hanger to the angle iron track, Fig. 5 shows an enlarged detached sectional detail disclosing the sheave frame and connected sheaves or rollers as running upon the angle iron track, Fig. 6 is an end view of the device, showing a slight modification of the construction of bracing the cross arm to the post.

In my present invention, I provide an elevated cable supported railroad, including a duplex rail, made of two angle irons held in spaced relation to provide a maximum of dignity with a minimum of weight. In the drawings, the numeral 5 designates a suitable post or standard to which is secured by any suitable means the cross arm 6, this cross arm being given additional strength by means of the brace 7 secured to the upper end of the post 5 and at its lower end carrying the arm as disclosed. Held to each end of the arm 6, by means of the U-shaped clip 10, are the cables 12. The ends

of the clips 10 pass through a bearing plate 13 and above are secured by means of the nuts 14. By means of the nuts 14 the cable 12 is securely forced against the under face of the arm 6 as disclosed in the drawings. Held upon the cable 12 at predetermined points, are the strap metal hangers 17 which are looped over the cable and are connected by means of suitable rivets 18 so that their lower ends are spread outward in the manner shown in Fig. 4.

The rails as used in my invention are in the form of angle irons 20, these angle irons having rivet perforations or apertures to receive the rivets 21 by means of which these angle irons are secured to the lower ends of the strap metal hangers. As shown in Fig. 5, the rails are held in parallel spaced relation with one thickness of strap hanger between them. In order to present the greatest bearing surface to the sheaves or rollers 25 arranged to work thereon, these angle irons are so positioned that their outstanding webs 26 extended across the ends of the straps as shown in Fig. 5 last referred to. This arrangement forms a very rigid structure. Any suitable carriage may be used in connection with these rails, and in Fig. 5 I show the hangers or sheave frames 30 which above carry the sheaves or rollers 25 each rotating upon an arbor 33. Below the sheave frame is provided with a hook 35, though other means may be used whereby a receptacle car or platform may be secured to the sheave frame to be used in transporting the articles or material upon this elevated cable system.

By means of the U-shaped clips 10, the cables can be readily detached from the supporting arms. The device is simple and inexpensive in construction, and both durable and efficient in operation. In Fig. 6 the brace 7' is secured to the post below the cross arm 6 and the top of the post terminates at the cross arm, and the posts are rigidly anchored in each instance. It is further understood that the rails 20 may be constructed of steel or other metal, as the important feature in connection therewith is the manner of suspending the rails.

What is claimed is:

1. In combination, a pole, a cross arm, a cable at the end of said cross arm, a strap metal hanger looped over said cable, and two angle irons riveted in parallel spaced

relation to the ends of said hanger with their outstanding webs extending across the ends of said strap.

2. In combination, a pole, a cross arm, a
5 brace supporting said arm, a cable at the
end of said cross arm, a strap metal hanger
looped over said cable, and two angle irons
riveted in parallel spaced relation to the
10 ends of said hanger with their outstanding
webs extending across the ends of said strap,
with one thickness of the strap between said
rails, as and for the purpose set forth.

3. In an elevated cable railroad, the combination with a post; of a cross arm secured
15 to the post, cables carried at the ends of the
arm, metal hangers secured to the cables,
said hangers having depending portions
spaced apart to provide a single thickness
of metal and rails secured to the opposite
20 sides of the depending portions.

4. In an elevated railroad, the combination with a suitably anchored upright; of an arm secured to the upright, a cable at right angles to the arm, U-shaped clips engaged with the cable and bolted to the arm 25 and angular track members suspended from the cable.

5. An elevated railroad, comprising a vertical support, an arm on the support, cables carried thereby, tracks suspended 30 therefrom having oppositely extending portions, sheave frames and rollers carried thereby disposed upon the tracks.

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

CANDY LEWELLEN.

Witnesses:

ANDREW YOUNT,

WILLIAM A. SWANK.

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