

No. 702,907.

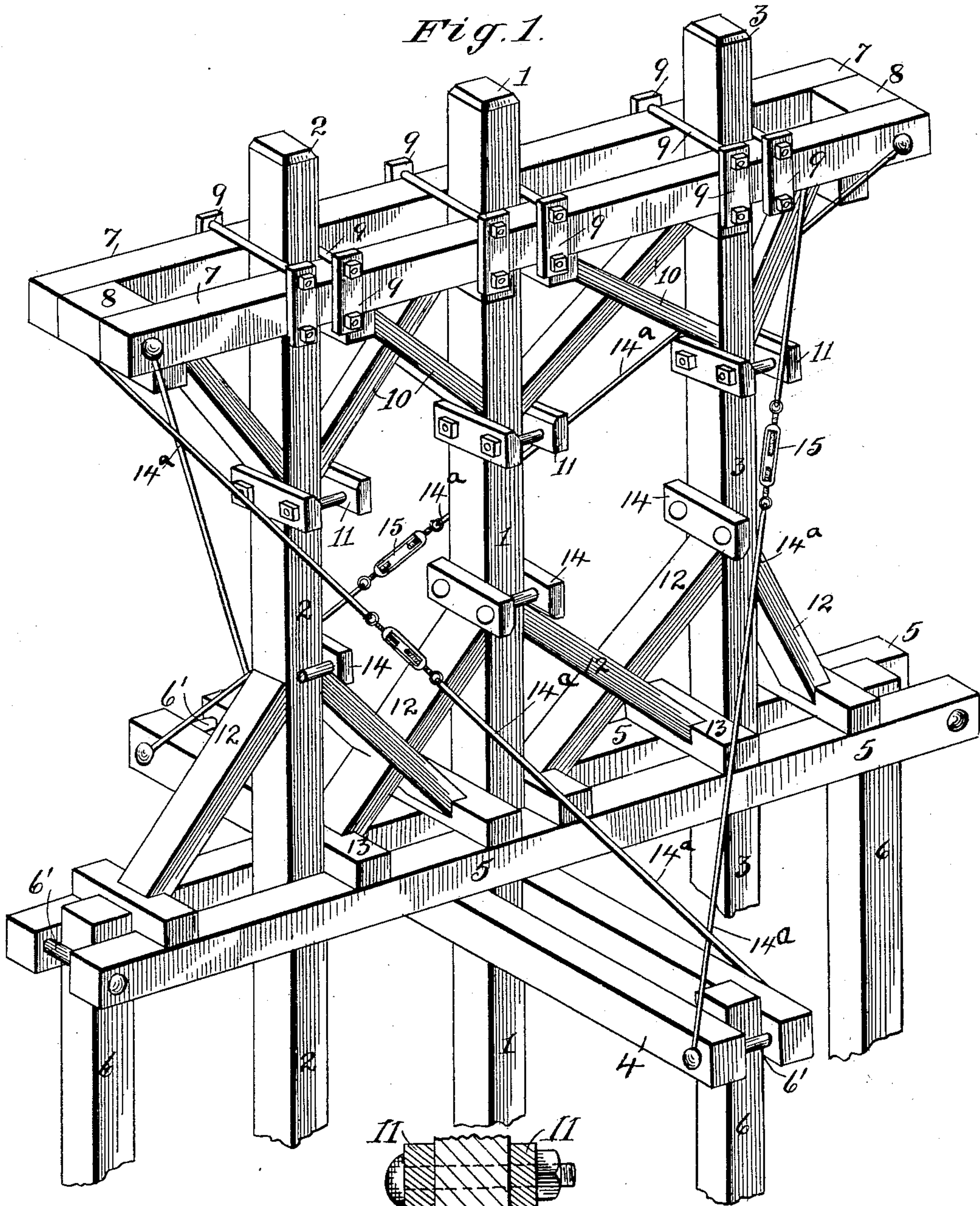
Patented June 24, 1902.

T. ALEXANDER.  
SUPPORT FOR OVERHEAD CARRIERS.

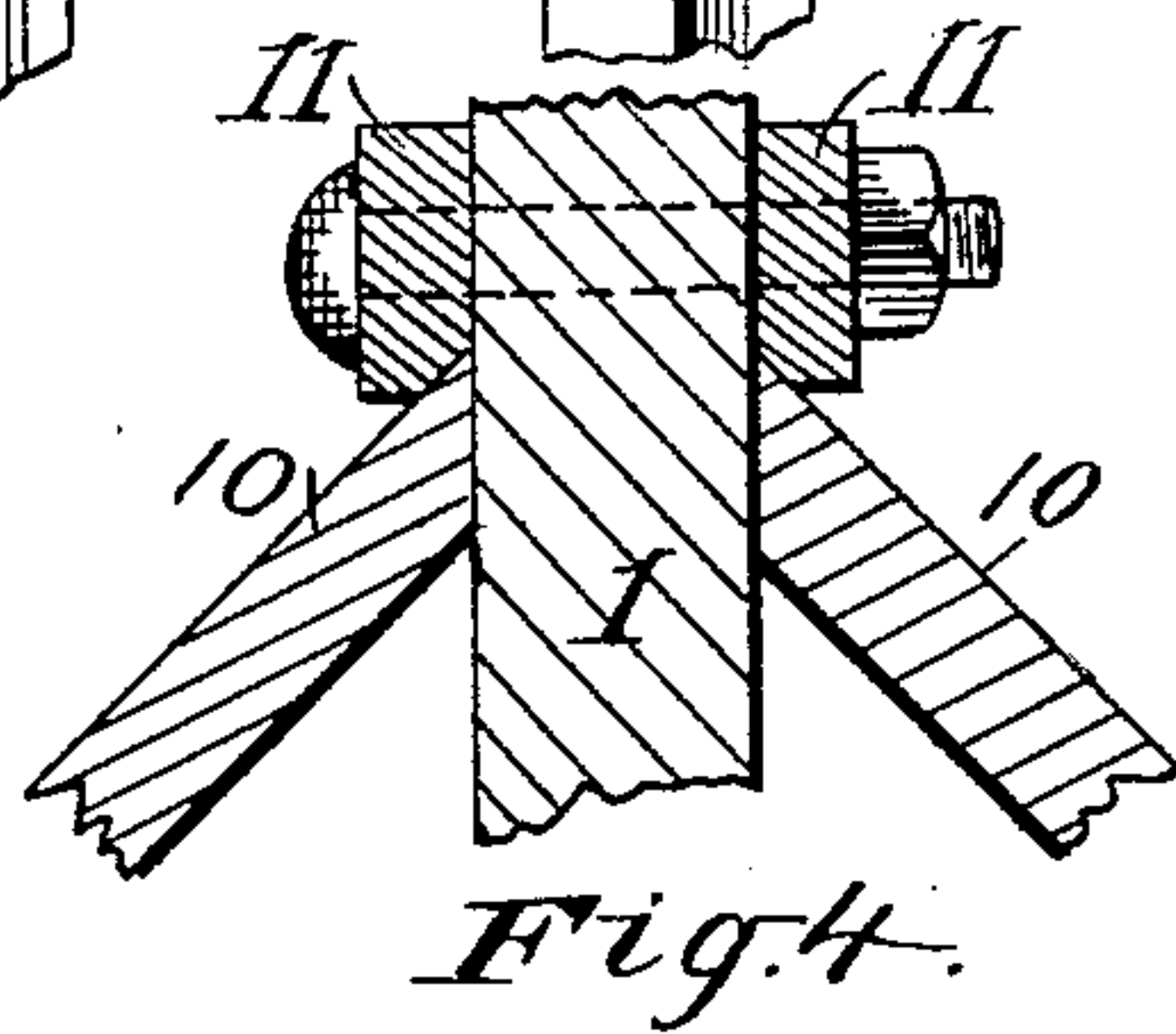
(Application filed Oct. 7, 1901.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:  
W. R. Edelen.  
Amos W. Hart



INVENTOR  
Tony Alexander.  
BY Munn & Co.  
ATTORNEYS



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Fig. 2

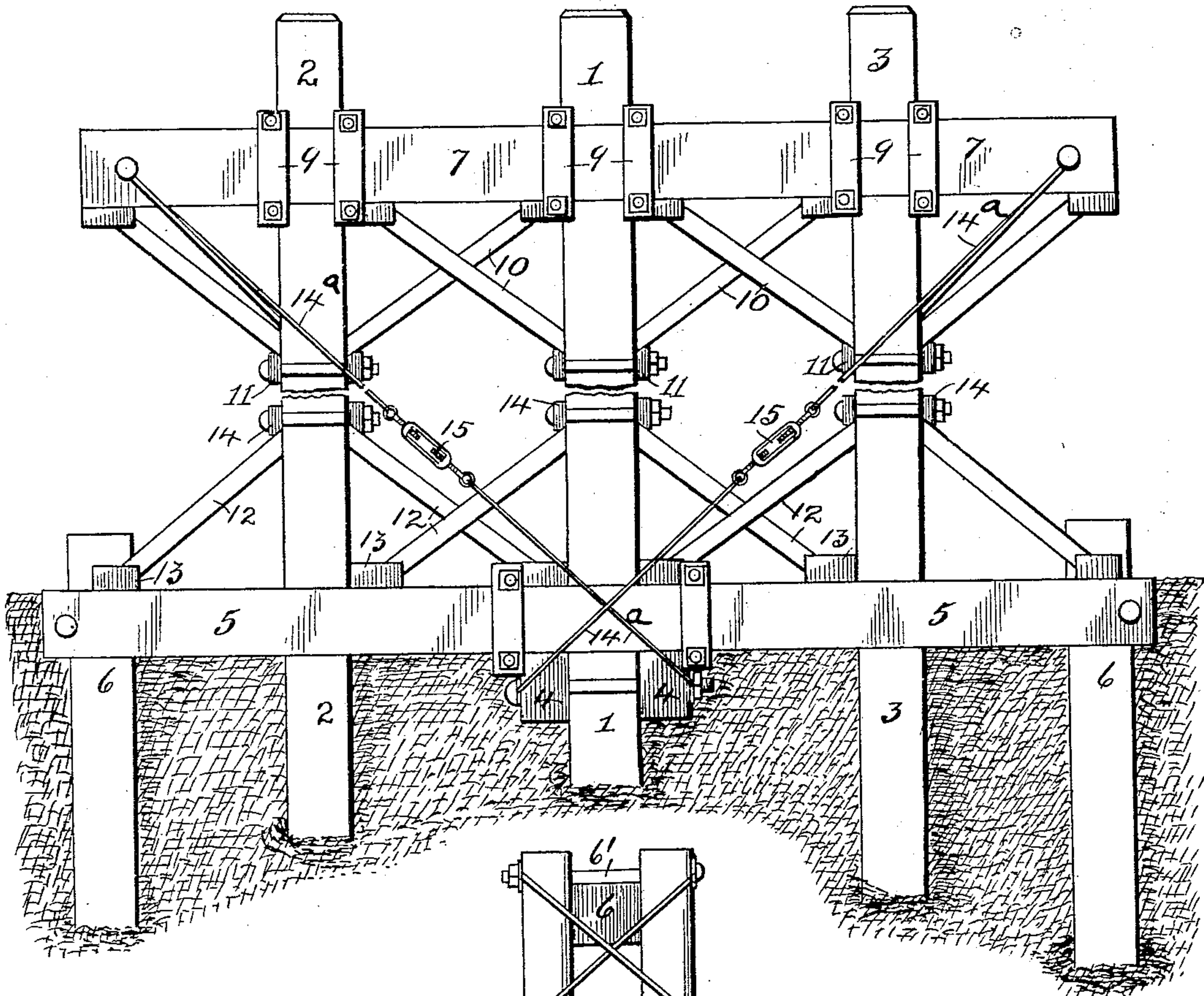
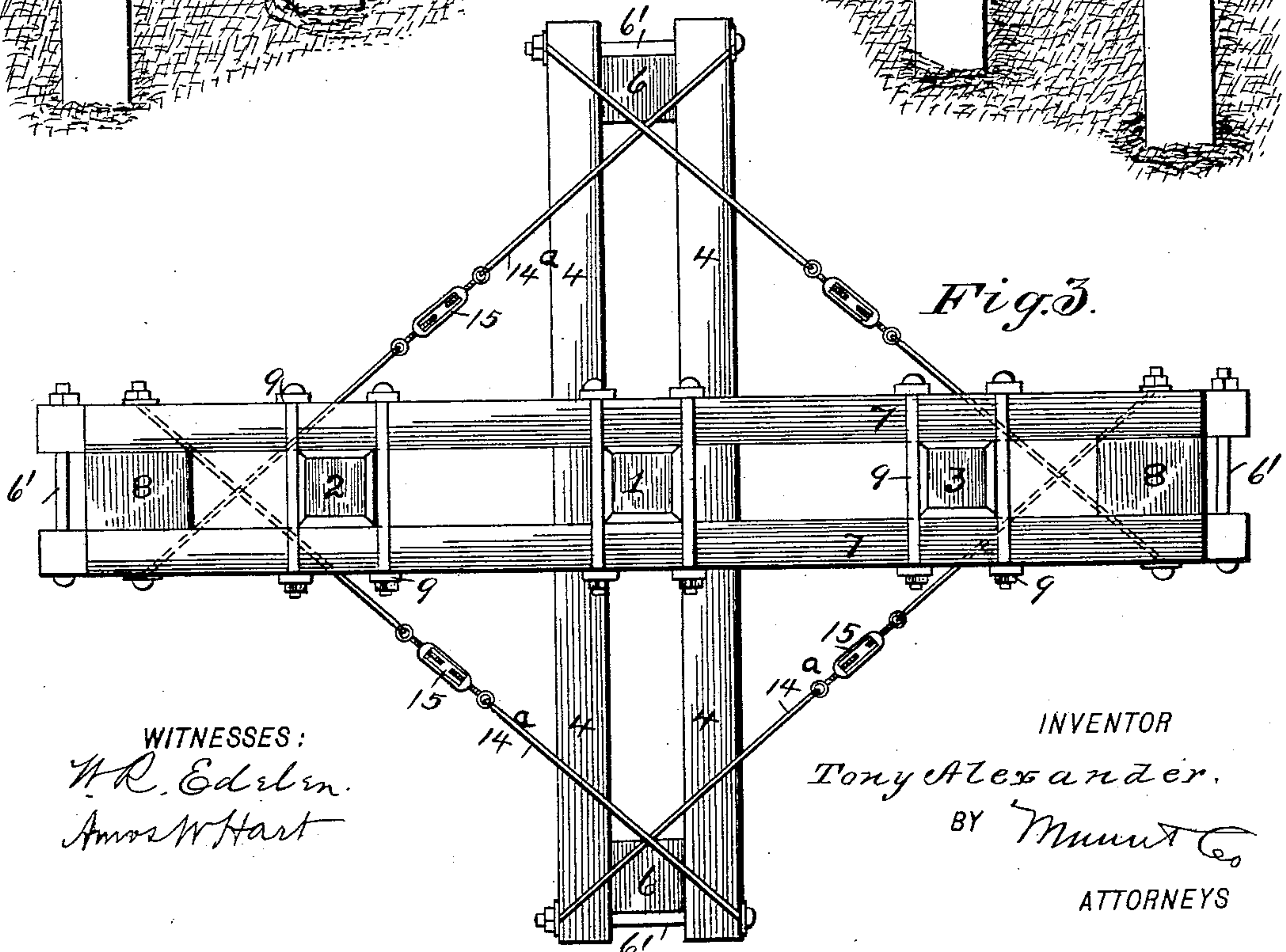


Fig. 3.



WITNESSES:  
H. R. Edelen.  
Amos W. Hart

INVENTOR  
Tony Alexander.  
BY *Munn & Co.*  
ATTORNEYS



# UNITED STATES PATENT OFFICE.

TONY ALEXANDER, OF BISMARCK, MISSISSIPPI, ASSIGNOR OF ONE-HALF TO  
GIDEON ALEXANDER, OF NEW ORLEANS, LOUISIANA.

## SUPPORT FOR OVERHEAD CARRIERS.

SPECIFICATION forming part of Letters Patent No. 702,907, dated June 24, 1902.

Application filed October 7, 1901. Serial No. 77,780. (No model.)

*To all whom it may concern:*

Be it known that I, TONY ALEXANDER, a citizen of the United States, and a resident of Bismarck, in the county of Lawrence and State of Mississippi, have made certain new and useful Improvements in Supports for Overhead Carriers, of which the following is a specification.

My invention is an improvement in post or frame supports for the track or wire rope of an overhead carrier.

One of the chief difficulties in constructing such carriers is the provision of supports or posts that shall have due strength, rigidity, and durability without involving too great cost. I have devised an improved post which meets all requirements, and the details of construction and arrangement of parts are as hereinafter described, and shown in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved post or support. Fig. 2 is a face or side view. Fig. 3 is a plan view. Fig. 4 is a detail section.

The vertical portion of the frame-support consists of three posts 1 2 3, which are in transverse alinement. The foundation is composed of the two sets of base cross-bars or mudsills 4 and 5, which are arranged at right angles to each other and one above the other. These foundation sills or bars 4 and 5 are in practice bedded in shallow ditches or furrows, as shown in Fig. 2, so that they are firm in position. The three posts 1 2 3 are also driven into the earth, the middle one, 1, being preferably the longest. At the ends of the two sets of mudsills 4 5 a vertical anchor-post 6 is arranged, as shown, whereby the foundation is further rendered still more firm and rigid. This post is secured by clamp-bolts 6'. A set of horizontal bars 7 is secured to the upper portions of the posts 1 2 3, the same being parallel to the upper sills 4 and extending beyond the outside posts 2 3. A block 8 is secured between the ends of bars 7, and at this point the rails or wires to be supported are in practice laid and fastened in place.

It will be seen that the posts 1 2 3 pass between the two cross-bars of each set 4 5 7. The upper bars 7 are secured by metal clamps 9, that surround the parts, as shown. These

clamps consist of iron or steel rods, apertured plates applied to their threaded ends, and nuts which screw on the latter. Thus the pressure may be regulated as required for holding the bars 7 at any required height. Diagonal wooden braces 10 are arranged below the bars 7, their upper ends abutting blocks 8 and their lower ends being beveled and resting against the sides of the posts 1 2 3 and supported by vertically-adjustable clamps 11. The latter are formed of bars which are beveled on the upper inner side, and screw-rods pass through them, as shown. It is apparent that the cross-bars 7, braces 10, and clamps 11 may be adjusted higher or lower, as conditions may require, to support a rail or wire rope at different heights. The posts 1 2 3 are further provided with diagonal base-braces 12, which rest on blocks 13, that lie upon bars 5, and their upper ends about the posts and adjustable screw-clamps 14, whose construction and adjustment are similar to the clamps 11, before described. The whole arrangement admits of the posts 1 2 3 being driven farther into the ground, if desired, after the support has been set up for use.

In order to render the framework still more rigid and particularly to resist the effect of torsion due to travel and traction on the rail or wire rope supported upon the bars 7 I employ the ties 14<sup>a</sup>. These extend obliquely from the ends of the lower sills 4 to the ends of the upper cross-bars 7. Thus there is a set of such ties 14<sup>a</sup> on each side of the support. It will be further seen that the members of each set or pair cross each other, they being attached to the sills and bars 7 on the sides or corners which are farthest apart.

Each of the ties 14<sup>a</sup> comprises two iron or steel ropes and an interposed turnbuckle 15. By means of the latter the tension may be regulated at will.

By the above-described construction, arrangement, and combination of parts I provide a post or frame-support which combines maximum strength, rigidity, lightness, and cheapness, besides adaptation for vertical adjustment.

What I claim is—

1. The improved cable-support comprising



a series of vertical posts adapted to be driven into the ground and arranged in line as shown, top cross-bars and lower cross-bars arranged parallel to each other, and means for clamping the cross-bars to the posts as shown and described, whereby they are adapted for vertical adjustment as specified.

2. The improved cable-support comprising a series of posts adapted to be driven into the ground, top cross-bars, lower cross-bars, means for securing them to the posts at any required point, and supplemental anchor-posts connected with the ends of the lower cross-bars and adapted to be driven into the ground, substantially as shown and described.

3. The improved support comprising a series of vertical posts arranged in alinement transversely and made of such length that they are adapted to be driven into the earth, top cross-bars secured to the posts, foundation sills or bars, and oblique ties extending between and connecting the ends of the upper cross-bars and one of the foundation bars or sills, substantially as shown and described.

4. The improved support comprising vertical posts, a top cross member, foundation bars or sills, and ties connecting the ends of the upper member with one of the said sills, and provided with devices for adjusting their tension or length, substantially as shown and described.

5. The improved support comprising one or more vertical posts, cross-bars attached to the upper portion of the same, foundation-sills crossing each other at right angles and secured to the posts, and ties connecting the ends of the upper cross-bars with the ends of the sill which is at right angles to said cross-bars, substantially as shown and described.

6. The improved support comprising a series of vertical posts arranged in transverse alinement, cross-bars attached to and rigidly connecting the upper ends of said posts, foundation-sills attached to the lower portion of the central post and arranged at right angles to the upper bars, and oblique ties connecting the ends of said cross-bars and sill, the arrangement being such that the ties cross

each other in the manner shown and described.

7. The improved support comprising vertical posts, cross-bars attached to the same, diagonal braces applied between the said cross-bars and posts, and clamps which are slidable vertically on said posts and thus adapted to abut the inner ends of the braces in whatever position or adjustment they may be.

8. The improved support comprising one or more vertical posts, cross-bars attached to the upper portion of the same, and clamps embracing both posts and bars and adapted for being tightened or relaxed, as required to provide for attachment, removal, or adjustment of the cross-bars, substantially as shown and described.

9. The improved support comprising vertical posts, cross-bars applied to the upper portions thereof, clamps for securing them to the posts, oblique braces and abutting clamps upon which the braces rest, the arrangement being such that the cross-bars, braces, and both clamps may be adjusted vertically as required, substantially as shown and described.

10. The improved support comprising vertical posts, cross-bars, braces, and clamps secured to the upper portion of the posts, and sills or foundation-bars arranged transversely and also in line with the series of posts at a point removed from the lower end of the latter, and means for securing the said sills in any vertical adjustment, substantially as shown and described.

11. The improved support comprising vertical posts, top cross-bars for supporting a rail or cable, means for securing the bars to the posts in any vertical adjustment, foundation-sills crossing each other at right angles and means for securing them to the posts in any vertical adjustment, substantially as shown and described.

TONY ALEXANDER.

Witnesses:

SOLON C. KEMON,  
J. MIDDLETON.