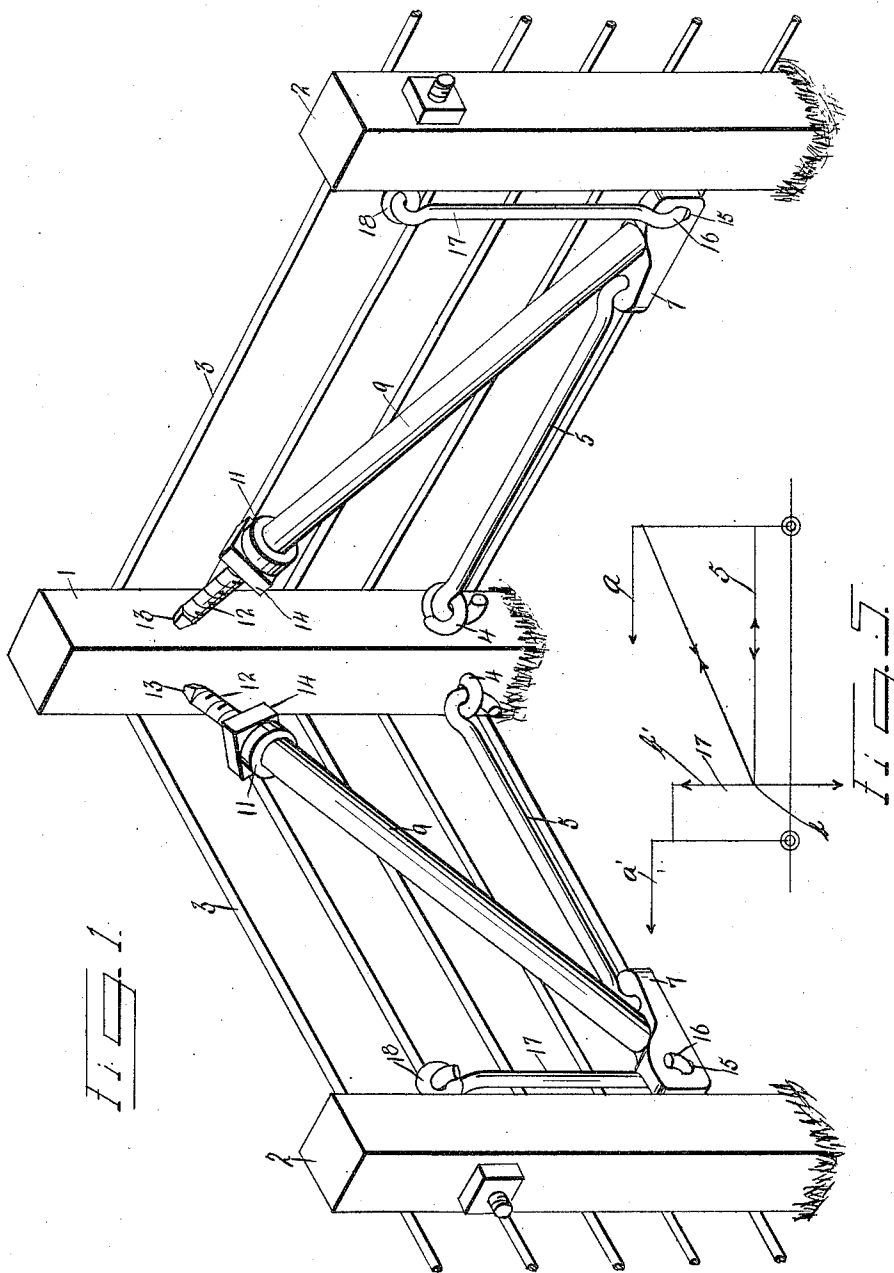


W. A. FOURNIE.
END AND CORNER POST ADJUSTING SUPPORT.
APPLICATION FILED NOV. 4, 1910.

1,018,894.

Patented Feb. 27, 1912.

2 SHEETS—SHEET 1.



Witnesses

D. E. Stoddell

Frank A. Howard

Inventor

William A. Fournie.

by *Charles H. Chandler*

by *Geo. H. Chandler*

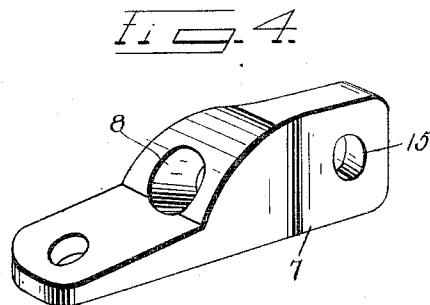
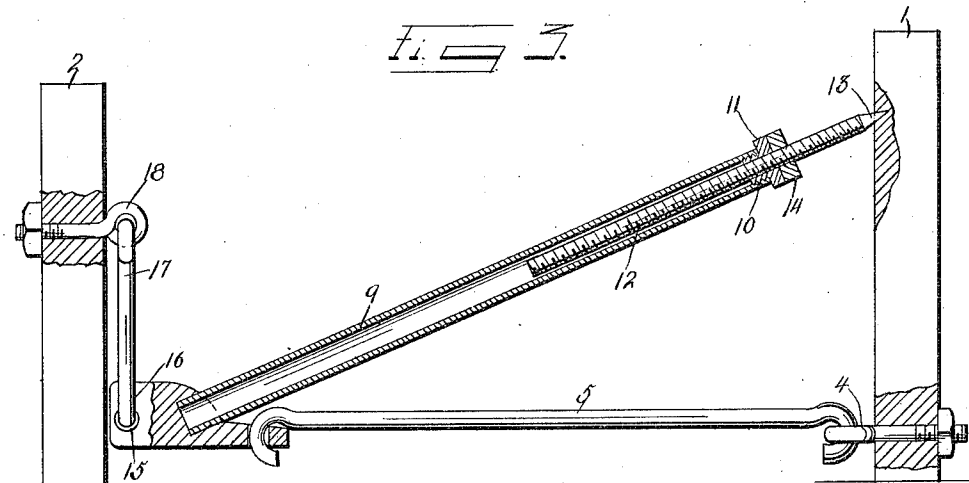
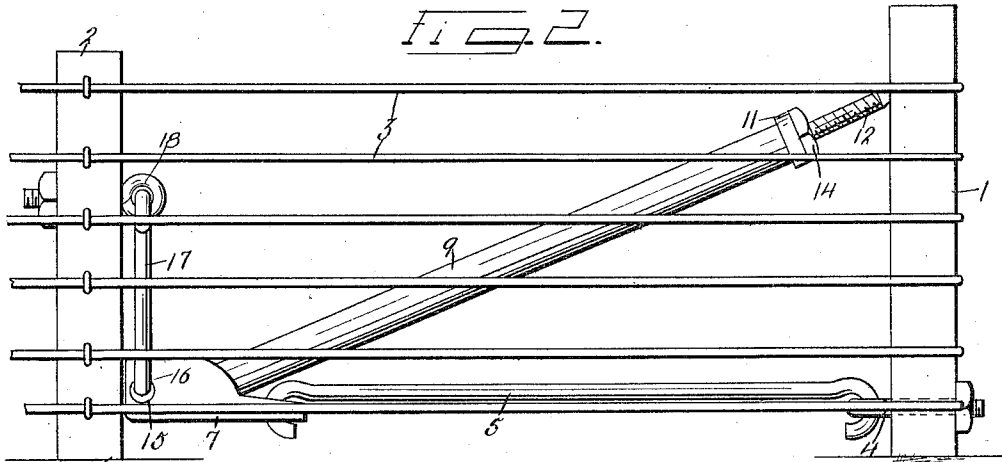
Attorneys

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Witnesses
J. E. H. H. H.
Frank A. Howard

Inventor
William A. Fournie
by *Charles Chandler*
By *Geo. H. Chandler*
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM A. FOURNIE, OF BELLEVILLE, ILLINOIS.

END AND CORNER POST ADJUSTING SUPPORT.

1,018,894.

Specification of Letters Patent.

Patented Feb. 27, 1912.

Application filed November 4, 1910. Serial No. 590,729.

To all whom it may concern:

Be it known that I, WILLIAM A. FOURNIE, a citizen of the United States, residing at Belleville, in the county of St. Clair, State of Illinois, have invented certain new and useful Improvements in End and Corner Post Adjusting Supports; and I do hereby 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.

My invention relates to improvements in fence braces and more particularly braces used for corner posts and my object is to provide a construction which will be simple in construction and efficient in operation.

A further object is to provide means by which the posts adjacent the corner post may be made to bear part of the strain imposed upon the latter, and

It will also be understood that a primary object which governs to some extent every other consideration is to reduce the cost of devices of this character to the lowest possible limit, consistent with efficiency and durability.

With the above and other objects in view, the invention consists in a certain construction and arrangement of parts to be hereinafter more fully described, specifically pointed out in the appended claim and illustrated in the accompanying drawings which are attached to and form a part of this application.

In these drawings a preferred embodiment of the invention is shown in which,

Figure 1 is a perspective view of a fence corner post with my improved bracing in place. Fig. 2 is a side elevation of a single brace. Fig. 3 is a side elevation in part section. Fig. 4 is a detail perspective view of the triangle point casting, and Fig. 5 is a force diagram illustrating the method by which the strains of the corner post are in part transferred to the adjacent post.

Referring more specifically to these drawings, 1 indicates the corner post of a wire fence and 2—2 are the adjacent side posts connected to the corner post by the fence wires 3. Adjacent the bottom of each line side of the corner post a pair of eye-bolts 4 are secured in which are hooked a tie-rod 5. The outer end of this rod is caught through an aperture in the reduced extremity of the casting 7, which as best shown in Fig. 4 is an irregularly shaped

piece having a cylindrical opening inclined at an angle to its length. This opening, here designated as 8, is of a size suitable for the reception of the tubular strut 9, the other end of which is internally screw-threaded as at 10 to receive a flanged cap member 11. Housed within the bore of the strut and projecting therefrom at its ends is the threaded rod 12 having its end 13 pointed for engagement in the wooden post 1. An adjusting nut 14 is threaded upon the rod 12 and it will be seen that by turning down this nut the effective length of the strut increases.

The construction so far described constitutes only a particular form of the common triangular corner brace, the strut and tie-rod with the post forming a triangle or simple truss element. My invention consists primarily in modifying this structure so that the adjacent post will take part of the strain usually carried in full by the corner posts and further constitutes a safety device in that the parting of the wires between the adjacent post and the corner post will still leave the former as thoroughly braced as before. To accomplish this object the outer extremity of the casting 7 has an eye 15 formed therein in which engages the hooked end 16 of the vertical tie-rod 17. The upper end of this rod is caught through an eye-bolt 18 which is secured to the post 2.

Referring to the force diagram of Fig. 5 in which the posts are considered as pivoted about their bases, the pull of the wires are indicated at "a" and "a'". It will be seen that there is a resultant compression stress in the strut 9 and tension in the tie-rod 5 as well as in that numbered 17. The particular balancing which is the feature of the bracing here described lies in the fact that the force "a" transmitted down to the point "b" is balanced by the resultant force "b'" from the wire pull "a'".

It will be seen from the above description that by the addition of one tie-rod and fastening the ordinary triangular brace has been made into a balanced structure which normally divides its stress between the corner post and the adjacent post.

What I claim is:

The combination with two adjacent fence posts, of bracing means between said posts, said means consisting of an eye-bolt passed through the upper end of one of said posts, a link hanging downwardly from said eye-

bolt to a point adjacent the base of the post, a socketed casting pivotally secured to the lower end of said link, a second eye-bolt passed through the lower portion of
5 the other post, a link swingingly connected to said second eye-bolt and with its free end connected to said casting, and an expansible strut having one end seated in the socket of said casting and its other end engaging

against the upper end of the last mentioned 10 post.

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

WILLIAM A. FOURNIE.

Witnesses:

VICTOR FOURNIE,

V. H. SCOTT.

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