

G. F. THOMPSON.
 EVENER COUPLING.
 APPLICATION FILED MAY 23, 1908.

948,487.

Patented Feb. 8, 1910.

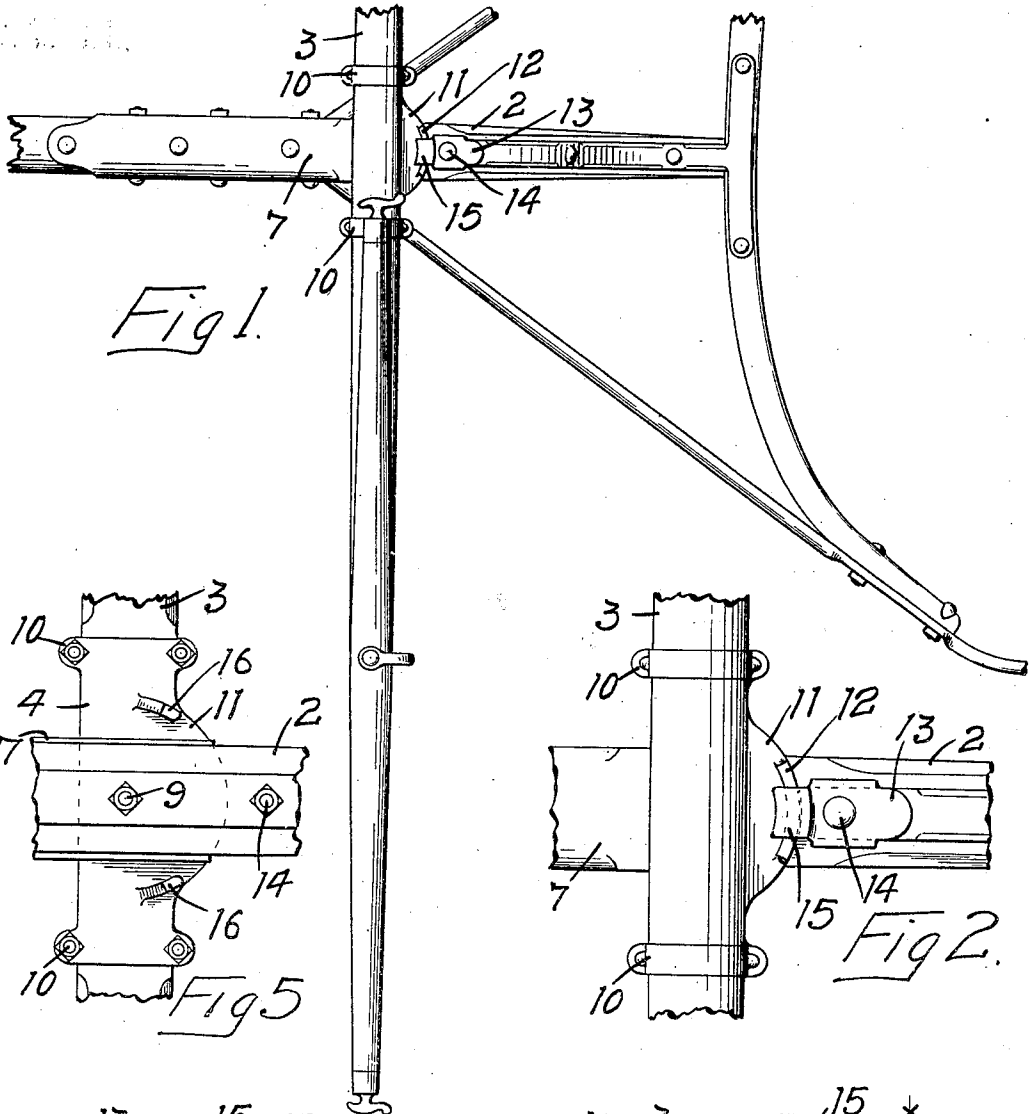


Fig. 1.

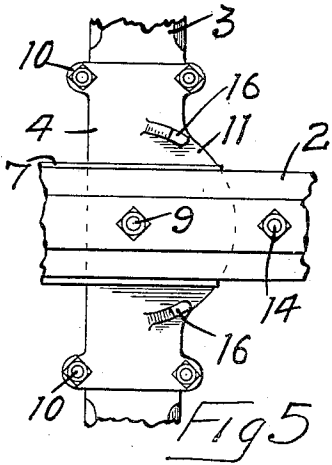


Fig. 5.

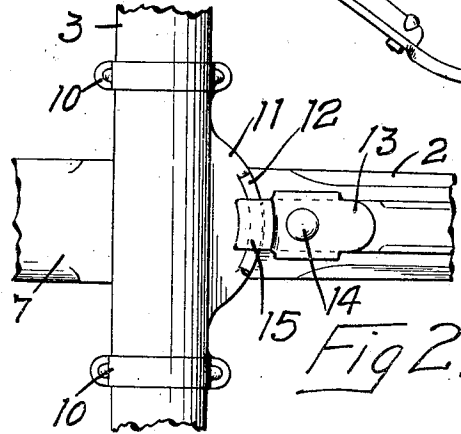


Fig. 2.

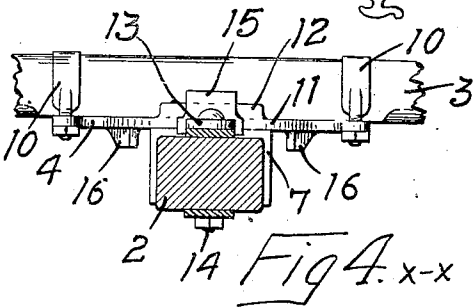


Fig. 4. x-x

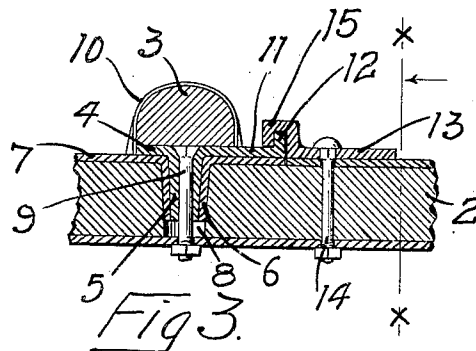


Fig. 3.

WITNESSES
M. Walstrom
J. A. Binghamton

INVENTOR
 GEORGE F. THOMPSON
 BY *Paul & Paul*
 HIS ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE F. THOMPSON, OF MINNEAPOLIS, MINNESOTA.

EVERENER-COUPPLING.

948,487.

Specification of Letters Patent.

Patented Feb. 8, 1910.

Application filed May 23, 1908. Serial No. 434,603.

To all whom it may concern:

Be it known that I, GEORGE F. THOMPSON, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful
5 Improvements in Everener-Couplings, of which the following is a specification.

The object of my invention is to provide a coupling which will do away with the necessity of a hole through the center of the
10 everener.

A further object is to provide an everener which will dispense with the stay straps usually required.

A further object is to provide an everener
15 having means for holding it in a horizontal position on the pole and preventing it from tilting sidewise thereon.

A further object is to provide a support for the everener which will cause it to oscillate
20 smoothly and evenly and prevent all danger or tendency of twisting.

My invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed
25 out in the claims.

In the accompanying drawings forming part of this specification, Figure 1 is a plan view of a portion of a pole and everener with my invention applied thereto. Fig. 2 is a
30 detail view showing the application of the everener to the pole. Fig. 3 is a sectional view illustrating the manner of mounting the everener on the pole. Fig. 4 is a sectional view on the line $x-x$ of Fig. 3 looking in
35 the direction of the arrow. Fig. 5 is a view of the under side of the pole and everener.

In the drawing, 2 represents a pole made in one piece or with the heel and straight portion made separately as described in my
40 companion application herewith.

3 is the everener and 4 a coupling plate having a hollow tapered stud 5 depending therefrom and fitting within a hub 6 on the cap plate 7, a tapered socket 8 being provided in the pole to receive said hub. The
45 cap plate has flanges depending on each side of the pole. A bolt 9 passes down through the stud and the pole and secures the coupling plate thereon but allows it to oscillate
50 with the everener. The coupling plate rests on the top plate and has end portions projecting laterally on each side and secured to the everener. The bolt fitting within the hollow stud has its head in engagement with
55 the everener coupling plate and a nut on its lower end in engagement with the bottom

plate of the pole. The ends of the plate 4 are provided with clamps 10 which rigidly secure the plate and the everener together. The everener is thus mounted on the pole
60 without the necessity of forming a hole in the everener to weaken it, and the arrangement of the clamps on each side of the everener center makes the everener stronger than one made in the usual way, as the leverage from
65 the ends of the everener to the clamps is less than it would be to the center of the everener. I can thus safely make the everener of lighter stock if desired.

By the use of the stud and hub connecting
70 the everener with the pole I am able to avoid all wear on the bolt 9 and prevent the everener from working loose and tilting sidewise on its pivot, a frequent occurrence in evereners as usually made. The coupling plate has a
75 rearwardly projecting flat flange 11 terminating in an upwardly projecting edge 12, and a plate 13 is secured to the pole by a bolt 14 and has a hook portion 15 overhanging the flange 12 and forming a guide therefor,
80 the flange and the hook being curved to allow the oscillation of the everener on its pivot.

This construction insures a broad bearing surface for the everener coupling on the pole
85 and prevents any twisting tendency of the everener, it being necessary to remove two bolts before the everener and coupling plate can be removed.

The rearwardly extending portion of the
90 coupling plate and the hammer strap bearing thereon and the projection of said coupling plate in front of the socket permit free horizontal oscillation of the everener, but prevent a rolling forward movement.
95

I provide also on the bottom of the coupling plate on each side of the pole, lugs 16 which allow a limited oscillation of the everener but engage the pole irons and prevent
100 the everener from swinging beyond a predetermined point. I am thus able to do away entirely with stay straps usually required with buggy pole evereners.

I claim as my invention:

1. The combination, with a pole having a
105 tapered socket extending therethrough, of top and bottom plates for said pole, said top plate having flanges depending on each side of said pole, and a hub fitting within said socket, an everener, a coupling plate adapted
110 to rest on the top plate of said pole and having end portions projecting laterally on each

side and secured to said evener, said coupling plate having a hollow tapered stud fitting within said hub, and a bolt fitting within said hollow stud and having its head in engagement with said evener coupling plate, and a nut on its lower end in engagement with the bottom plate of said pole, substantially as described.

2. The combination, with a pole having a socket therein, of top and bottom plates for said pole, said top plate having a hub fitting within said socket, an evener, a coupling plate resting on the top plate of said pole and having end portions projecting laterally on each side thereof, and means for securing said end portions to said evener, said coupling plate having a flat flange projecting rearwardly therefrom, and said flange having a broad bearing surface on said top plate and provided with a curved upwardly-turned rear edge, a hammer strap secured to said pole and provided with a hook at its forward end which overhangs the upwardly turned edge of said flange, and means for clamping said hammer strap on said pole in the rear of and close to the point where its hook engages the upwardly-turned edge of said flange, and said coupling plate projecting in front of the socket in said pole

and bearing on said top plate and whereby horizontal oscillation of the evener will be permitted but a forward rolling movement is prevented.

3. The combination, with a buggy pole having a socket therein, of top and bottom plates secured to said pole, said top plate having depending flanges on each side thereof secured to said pole, and a hub fitting within the socket in said pole, an evener, a coupling plate having a stud fitting within said hub, and means for securing said stud therein, said coupling plate having end portions projecting laterally on each side of said pole, and means for securing said end portions to said evener, and said end portions having depending lugs cast integrally therewith on each side of said pole and adapted when the evener is oscillated to engage the depending flanges of said top plate and limit the oscillation of the evener thereon, substantially as described.

In witness whereof, I have hereunto set my hand this 16th day of May 1908.

GEORGE F. THOMPSON.

Witnesses:

J. H. BALDWIN,
J. A. BYINGTON.