F. M. VILES.

GUY WIRE CONNECTION FOR LAND ANCHORS.

APPLICATION FILED APR. 26, 1909.

957,823. **Patented May 10, 1910.**

Fig. 1.

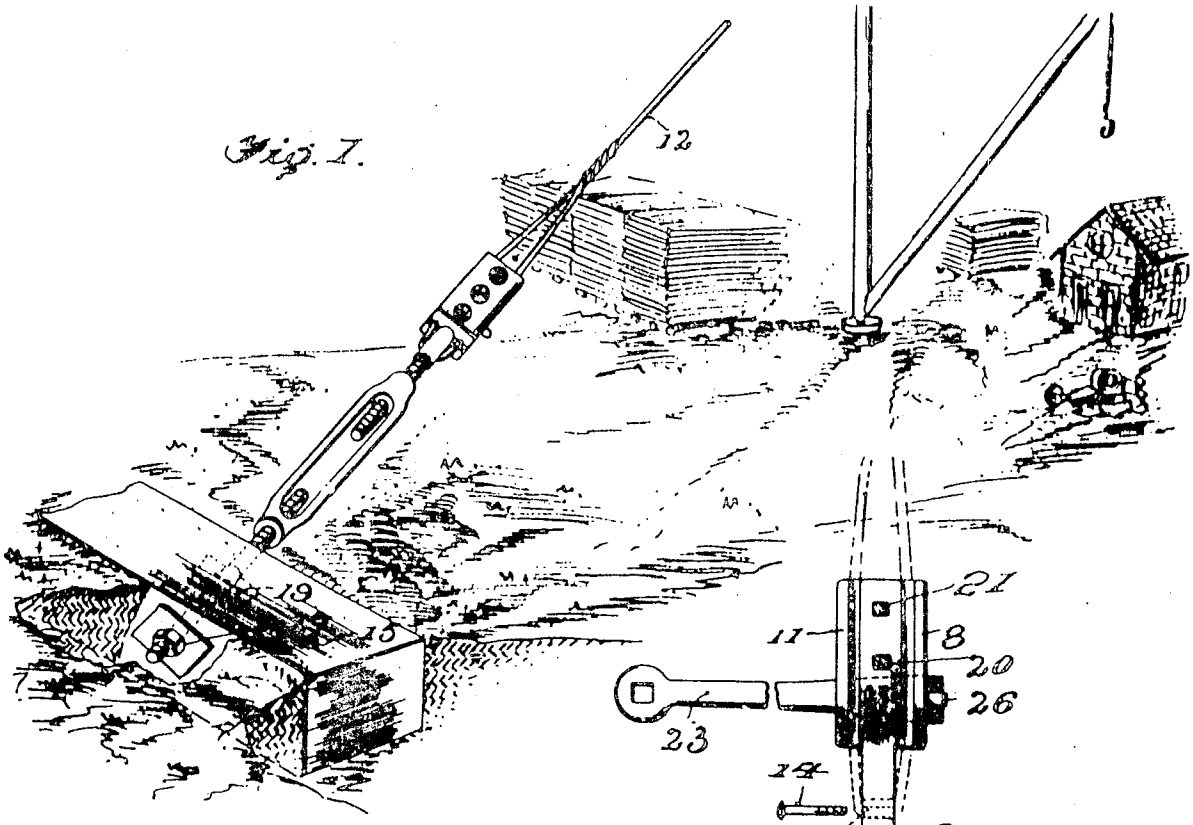


Fig. 3.

Fig. 4.

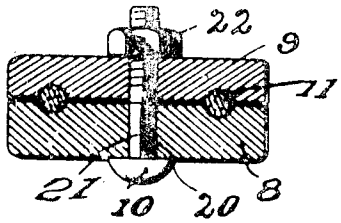


Fig. 5.

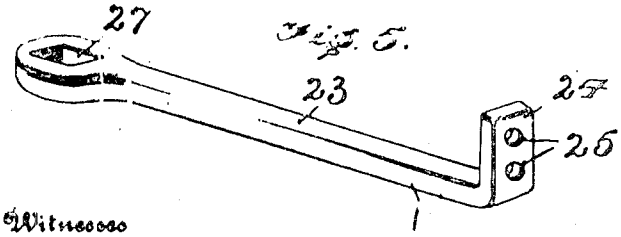
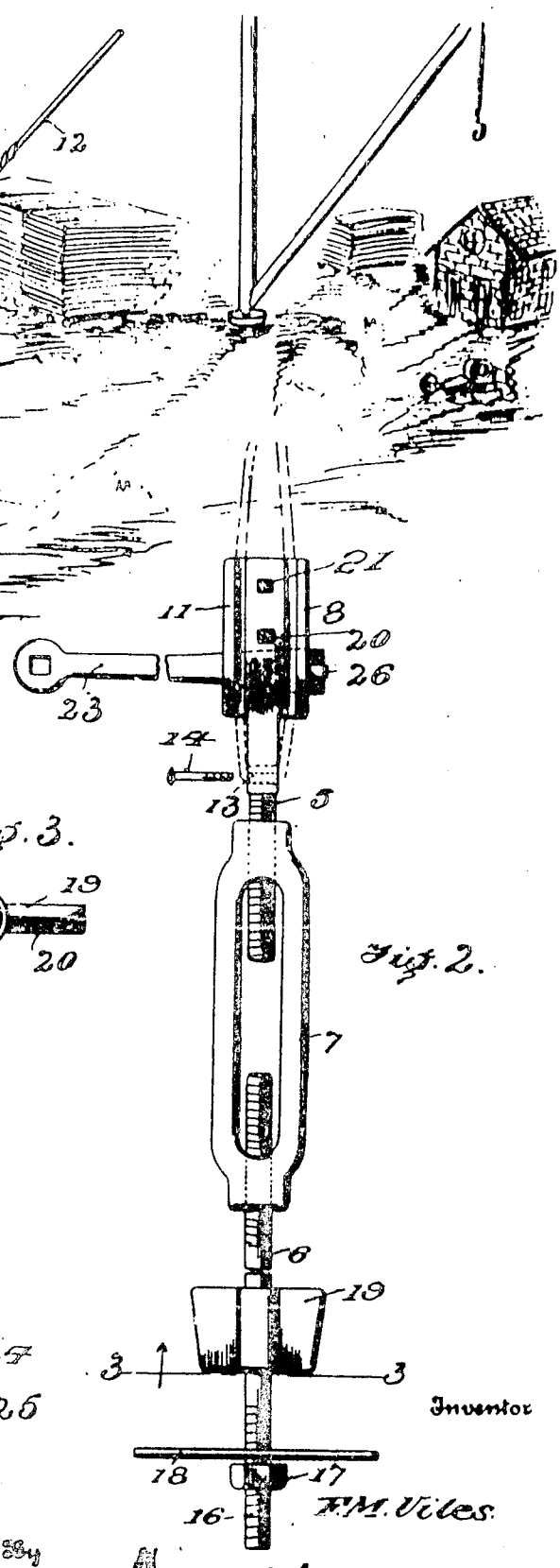


Fig. 2.



Witnesses

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GUY-WIRE CONNECTION FOR LAND-ANCHORS.

957,823. Specification of Letters Patent. Patented May 10, 1910.

Application filed April 26, 1909. Serial No. 492,199.

To all whom it may concern:

Be it known that I, FRANK M. VILES, a citizen of the United States, residing at Fitchburg, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Guy-Wire Connections for Land-Anchors, of which the following is a specification.

This invention relates to guy rods and more particularly to a combined guy rod and clamp especially designed for bracing and staying telegraph and telephone poles, electric poles and similar structures.

The object of the invention is to provide a guy rod having means at one end thereof for attachment to a guy wire and provided at its other end with an anchor engaging device, provision being made for adjusting the rod in the direction of its length, thereby to regulate the tension of the guy wire.

A further object of the invention is generally to improve this class of devices so as to increase their utility, durability, and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of a guy rod constructed in accordance with my invention; Fig. 2 is a front elevation of the same, one of the clamp sections being removed and the wrench shown in engagement with the lug or pin; Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 2 and looking in the direction of the arrow; Fig. 4 is a transverse sectional view of the wire clamp; Fig. 5 is a perspective view of the operating tool or wrench.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The improved device forming the subject matter of the present invention comprises spaced rod sections 5 and 6 having their inner ends provided with right and left hand threads respectively, for engagement with the correspondingly threaded sockets of a turn buckle 7 of any approved construction.

Secured to or formed integral with the upper end of the rod section 5, is an elongated enlargement 8 constituting the relatively stationary section of a clamping member, the mating section 9 of the clamping member being similar in construction to the section 8 and detachably secured thereto by bolts or similar fastening devices 10.

The inner faces of the clamp sections 8 and 9 are provided with longitudinally disposed seating grooves 11 for the reception of the adjacent strands of a guy wire, indicated at 12. The intermediate portion of the guy wire 12 is extended through a transverse opening 13 formed in the rod section 5, while the opposite ends thereof are extended between the clamping members 8 and 9 and secured in any suitable manner to a telegraph pole or other structure to be braced.

If desired, a bolt or pin 14 may be extended through the opening 13 to assist in retaining the wire in position, and in some cases, the end of the wire instead of being passed through the opening 13, may be secured to said bolt.

The lower end of the rod section 6 is extended through an anchoring member or block 15, and is provided with terminal right hand threads 16 for engagement with a suitable nut 17, there being a washer or wear plate 18 interposed between the nut 17 and the adjacent face of the anchoring member 15 to assist in preventing accidental displacement of the lower rod section.

Secured to or formed integral with the intermediate portion of the rod section 6, are lateral projections, preferably in the form of wedge shaped lugs 19, the cutting edges 20 of which are adapted to be driven or embedded in the adjacent surface of the anchoring member 15 so as to prevent accidental turning of the rod 6 when the turn buckle 7 is adjusted to effect the tension of the guy wire 12.

The headed ends of the clamping nuts 10 are provided with square shanks which engage correspondingly squared sockets or recesses 21 formed in the clamping member 8, suitable clamping nuts 22 being threaded on the terminals of the clamping bolts and arranged to bear against the outer face of

the clamp section 9, thereby to firmly clamp said section in engagement with the guy wire.

In order to prevent twisting or turning movement of the wire clamp when the turn buckle 7 is adjusted, a suitable tool or wrench 23 is provided, one end of which is bent to produce a laterally extending arm 24 having one or more apertures 25 formed therein and adapted to receive a pin or projection 26 extending laterally from one longitudinal edge of the clamping member 8, the opposite end of the wrench 23 being formed with a square socket 27 to facilitate adjusting the several clamping nuts.

In operation, the anchoring member 15 and lower rod section 6 are embedded in the ground, after which the guy wire 12 is threaded through the clamping sections 8 and 9 and the nuts 22 adjusted by turning the same with the wrench 23. The wrench is then positioned on the clamping member with the pin 26 extending through one of the openings 24 in the wrench as best shown in Fig. 2 of the drawings, and in which position it may be held against accidental turning movement when the turn buckle 7 is adjusted to regulate the tension of the guy wire.

Having thus described the invention, what is claimed as new is:

1. A device of the class described including spaced rod sections having their inner ends provided with right and left hand threads respectively, a clamp carried by one of the rod sections for engagement with a guy wire, means carried by the other rod section for engagement with one side of an anchor, a turn buckle engaging the threaded ends of the rod sections, and a wedge shaped member rigidly secured to the lower rod section and adapted to be embedded in another side of said anchor for preventing rotary movement of the lower rod section when the turn buckle is adjusted.

2. A device of the class described including rod sections having their inner ends threaded, a clamp carried by one of the rod sections for engagement with a guy wire, means carried by the other rod section for engagement with one side of an anchor, a turn buckle engaging the inner ends of the rod sections for regulating the tension of the guy wire, and lateral projections rigidly secured to the lower rod section in spaced relation to the anchor engaging means and adapted to be embedded in another side of said anchor for preventing rotary movement of said lower rod section when the turn buckle is adjusted.

3. A device of the class described comprising rod sections having their inner ends threaded, one of said rod sections being provided with means for engagement with a guy wire, means carried by the lower rod section for engagement with one side of an anchor, a turn buckle engaging the threads on the rod sections, and wedge-shaped lugs rigidly secured to the lower rod section in spaced relation to the anchor engaging means and adapted to be embedded in another side of the anchor for preventing turning movement of said lower rod section when the turn buckle is rotated.

4. A device of the class described including rod sections having their inner ends threaded, one of said rod sections being provided with a clamp for engagement with a guy wire and the other section provided with means for engagement with an anchor, a turn buckle forming a connection between the rod sections and engaging the threaded ends thereof, and a pin extending laterally from the clamp and adapted to engage a wrench for preventing rotation of the clamp when the turn buckle is adjusted.

5. A device of the class described including upper and lower rod sections having their inner ends provided with right and left hand threads respectively, one of said rod sections being provided with a clamp for engagement with a guy wire, the lower end of the lower rod section being provided with threads, the pitch of which is different from the pitch of the threads at the upper end of the lower rod section, a turn buckle engaging the right and left hand threads of said rod sections, laterally extending wedge shaped lugs rigidly secured to the lower rod section for engagement with one side of an anchor, a nut engaging the lower threads on the lug carrying section for engagement with another side of said anchor, and a pin extending laterally from the clamp for engagement with a wrench, thereby to prevent turning movement of said clamp when the turn buckle is rotated.

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

FRANK M. VILES.

Witnesses:
MAUD E. LEACH,
ESTHER M. FARQUHAR.