

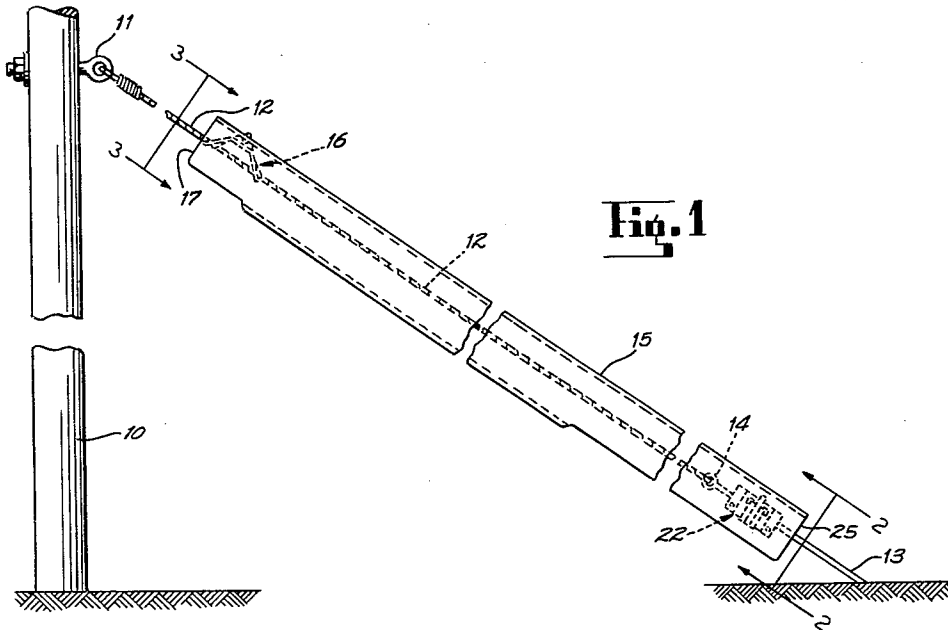
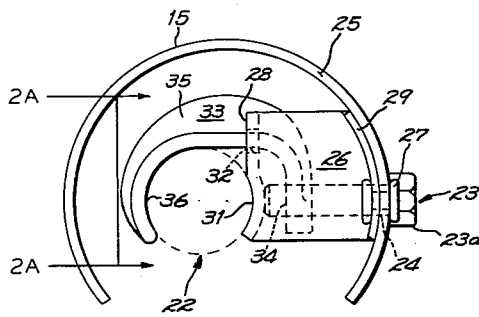
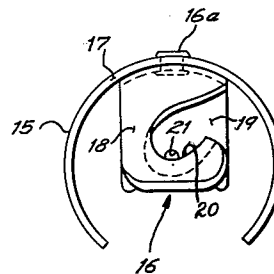
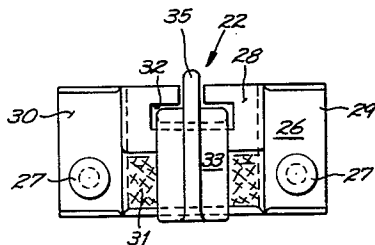
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GUY GUARD ASSEMBLY

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2 Sheets-Sheet 1



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2 Sheets-Sheet 2

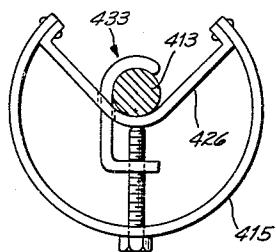


Fig. 4

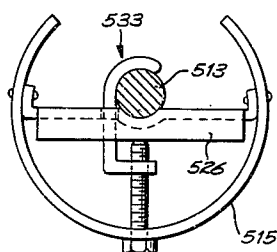


Fig. 5

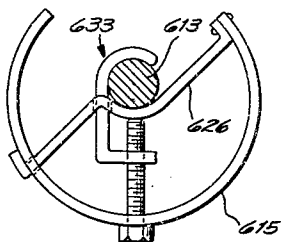


Fig. 6

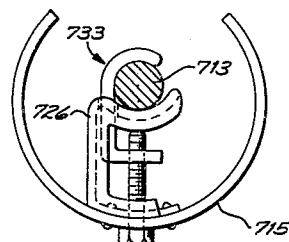


Fig. 7

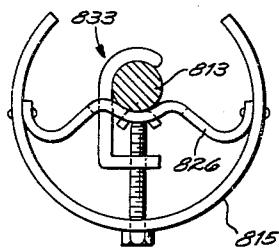


Fig. 8

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3,010,546

GUY GUARD ASSEMBLY

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3 Claims. (Cl. 189-31.5)

This invention relates in general to guy guard assemblies and more particularly relates to a guy guard assembly including novel mounting means.

An object of this invention is to provide an improved guy guard assembly including an improved type of mounting which is very simple in construction and easy to secure in position relative to a working guy strand and ground anchor.

Another object of the invention is to provide a mounting for guy guards and the like that is adapted for use on standard guy anchor rods of varying diameters, the mounting being equally effective independent of the size or diameter of the anchor rod.

A further object of the invention is to provide a guy guard protector wherein the mounting means is factory preassembled such that there are no loose parts to be lost during shipping or during field installation.

A further object of the invention is to provide a guy guard assembly of the type aforementioned which is open in design and offers no moisture traps to cause corrosion of the parts.

A further object of the invention is to provide apparatus of the type aforementioned which is easy to install in that the tightening means for the clamp portion is mounted on the exterior of the guy guard for engagement by a hand tool such as a wrench, pliers or the like.

A further object of this invention is to provide a guy guard assembly above described which is low in cost, easy to manufacture, and is otherwise well adapted for the purposes for which it was designed.

The novel features that are characteristic of the invention are set forth with particularity in the appended claims. The invention itself, both as to its organization and its method of operation together with additional objects and advantages thereof will best be understood by the following description of specific embodiments when read in connection with the accompanying drawings in which:

FIG. 1 is a vertical elevational view of the novel guy guard assembly, the components thereof being in assembled relation to a vertically extending pole or the like;

FIG. 2 is a view along lines 2-2 of FIG. 1;

FIG. 2a is a view along lines 2a-2a of FIG. 2;

FIG. 3 is a view along lines 3-3 of FIG. 1;

FIG. 4 is a view similar to FIG. 2 showing an alternative embodiment of mounting means;

FIG. 5 is a view similar to FIG. 4 of another alternative embodiment of mounting means;

FIG. 6 is a view similar to FIGS. 4 and 5 of another alternative embodiment of mounting means;

FIG. 7 is a view similar to FIGS. 4-6 showing another alternative embodiment of mounting means; and

FIG. 8 is a view similar to FIGS. 4-7 inclusive showing still another alternative embodiment of mounting means.

Returning now to FIG. 1, a vertically extending pole 10 such as a telephone pole or telegraphic pole or the like may be formed with an aperture to receive an eye bolt 11 which extends therethrough. To take the lateral thrust imposed on such poles 10, a guy strand 12 may be attached at one end to the eye bolt 11 and attached to a

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suitable ground anchor rod 13 at the head 14 by any of a number of suitable dead ending techniques that are well understood in the art.

The guy strand 12 is often provided with an elongated substantially hollow protector or guard 15, the function of which is well known and understood in the art. The particular guard 15 shown is roughly cylindrical in shape with a longitudinal coextensive aperture of sufficient width and configuration to permit entry of the guy strand and anchor rod head.

In mounting the guards 15 to guy strands 12 and anchor rods 13, it is desired to provide a quick, simple, easy method of field installation which requires an absolute minimum of moving parts while being flexible enough to be adapted to a great variety of sizes of ground anchor rods 13. The anchor rods 13 vary considerably in diameters depending upon the soil conditions and load requirements encountered at any one particular location. To these ends, a first mounting means 16 is rigidly attached, as by a rivet 16a to the interior of the guy guard 15 at its upper end 17. As shown in FIG. 3, the mounting means 16 comprises a shallow V-shaped strap member having free arms 18 and 19. Arm 18 is formed with a hook-like aperture 20 which is in communication with the side surface of said arm. Arm 19 is formed with a shallow V-shaped aperture 21. The apertures 20 and 21 are each adapted to receive and coax with the working guy strand 12 to fixedly engage and mount the upper end 17 of the guy guard 15 thereto. As shown in FIG. 3 the guy strand is inserted within the aperture 21 by merely rotating and tilting the guy guard 15 relative to the strand 12 and inserting the slotted portion 21 over the guy strand. Thus, the upper portion requires no bolts, etc., for quick easy mounting of the upper portion of the guard to the guy strand.

The second or lower mounting means 22 is shown in FIGS. 2 and 2a and essentially comprises tightening means 23 which takes the form of a screw threaded bolt member which is journaled in an aperture 24 formed in the wall of the guy guard 15 near the lower end 25. The head 23a of the bolt 23 is adapted for quick engagement with a wrench or the like. The mounting means 22 further comprises a strap member 26 which is fixedly mounted to the wall of the guy guard 15 over the aperture 24 by rivets such as 27. The strap member is generally hat shaped in cross sectional configuration, having a top portion 28 and mounting legs 29 and 30. The top portion 28 of member 26 may be formed with a roughened jaw portion 31 and with a slot aperture 32, the latter being adapted to receive a movable C-clamp member 33 having a jaw portion 36 in opposed relation to jaw 31. It is to be noted that the roughened portion of the jaw 31 may not be necessary in many applications. The bolt member 23 is adapted to be screwed into a threaded aperture 34 formed in one end of a generally C-shaped clamp member 33, the main body portion 35 of the clamp member 33 being adapted to slide in the slot 32 of the hat shaped member 26 to thereby move jaw 36 relative to jaw 31. Thus, it is seen by rotatable movement of the bolt means 23 by a wrench, the clamp jaw 36 is moved into and out of engagement relative to jaw portion 31 and the mounting means 22 is adapted to fit any of a number of plurality of sizes of anchor rods 13 while permitting easy field assembly from a position exterior of the guard 15.

The embodiments shown in FIGS. 4 through 8 are quite similar to the embodiment just discussed, the major distinction in each case relating to the members 426, 526, 626, 726 and 826 which include the fixed jaw. The movable jaw members 433, 533, 633, 733 and 833

and the tightening means therefore may be substantially identical to clamp member 33.

Although specific embodiments of the invention have been shown and described, it is with full awareness that many modifications thereof are possible. The invention, therefore, is not to be restricted except insofar as is necessitated by the prior art and by the spirit of the appended claims.

What is claimed as the invention is:

1. A mounting for securing a hollow curvilinear guy protector upon an elongated tensioned member disposed axially of and surrounded by said protector, comprising, in combination, a strap member fixedly attached to the interior of said guy protector and having a portion spaced radially inward from said guy protector, said radially inward portion of said strap member defining a jaw adapted to receive said tensioned member and having an aperture spaced from said jaw, means for clamping said tensioned member against said jaw including a C-shaped member having a jaw portion, and means including said aperture in said strap member adapted to slidably receive said C-shaped member for maintaining said C-shaped member in a plane radial of said guy protector while permitting movement of said C-shaped member in a direction to advance said jaw portion toward and away from said jaw of said strap member, said clamping means also including a threaded member accessible from the exterior of said guy protector and threadably engaging said C-shaped member and adapted when turned to move said C-shaped member in said direction to advance said jaw portion toward said jaw of said strap member.

2. Clamping means for securing a hollow, curvilinear, guy guard to an elongated member disposed axially within and surrounded by said guard comprising, in combination, a first member positioned within the interior of said guard and having a jaw portion elongated in a direction parallel to the axis of said guard adapted to receive said elongated member, said jaw portion being spaced radially inward from said guy guard, said first member also having a guiding aperture extending in a direction transverse to said axis, a clamping member slidably received within

said guiding aperture and having a jaw portion opposite said jaw portion on said first member and being slidable within said guiding aperture relative to said first member to advance and withdraw said jaw portion toward and away from clamping engagement with said elongated member, said guard having an opening therethrough intermediate its ends, and threaded means extending through said opening to a position exterior of said guard and threadably engaging said clamping member for moving said clamping member relative to said first member to permit clamping said elongated member between said jaw portions.

3. A guy guard assembly for a working guy strand, comprising, in combination, an elongated, longitudinally recessed, curvilinear guy guard member arranged over said guy strand and having an aperture therethrough, first and second attachment means for securing the ends of said guy guard member to an elongated tensioned member disposed axially within said guard member, one of said attachment means including a strap member having a first portion fixedly attached to the interior of said guy guard member and a second portion spaced radially inward from said guy guard member and defining a jaw adapted to receive said tensioned member, and two-piece means extending through said aperture in said guy guard member for clamping said tensioned member against said jaw, the two pieces of said clamping means being threadably engaged and one of said pieces having a jaw portion opposite said jaw on said strap member, the other of said pieces having a portion exterior of said guy guard member and being rotatable to move said jaw portion relative to said jaw on said strap member.

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