

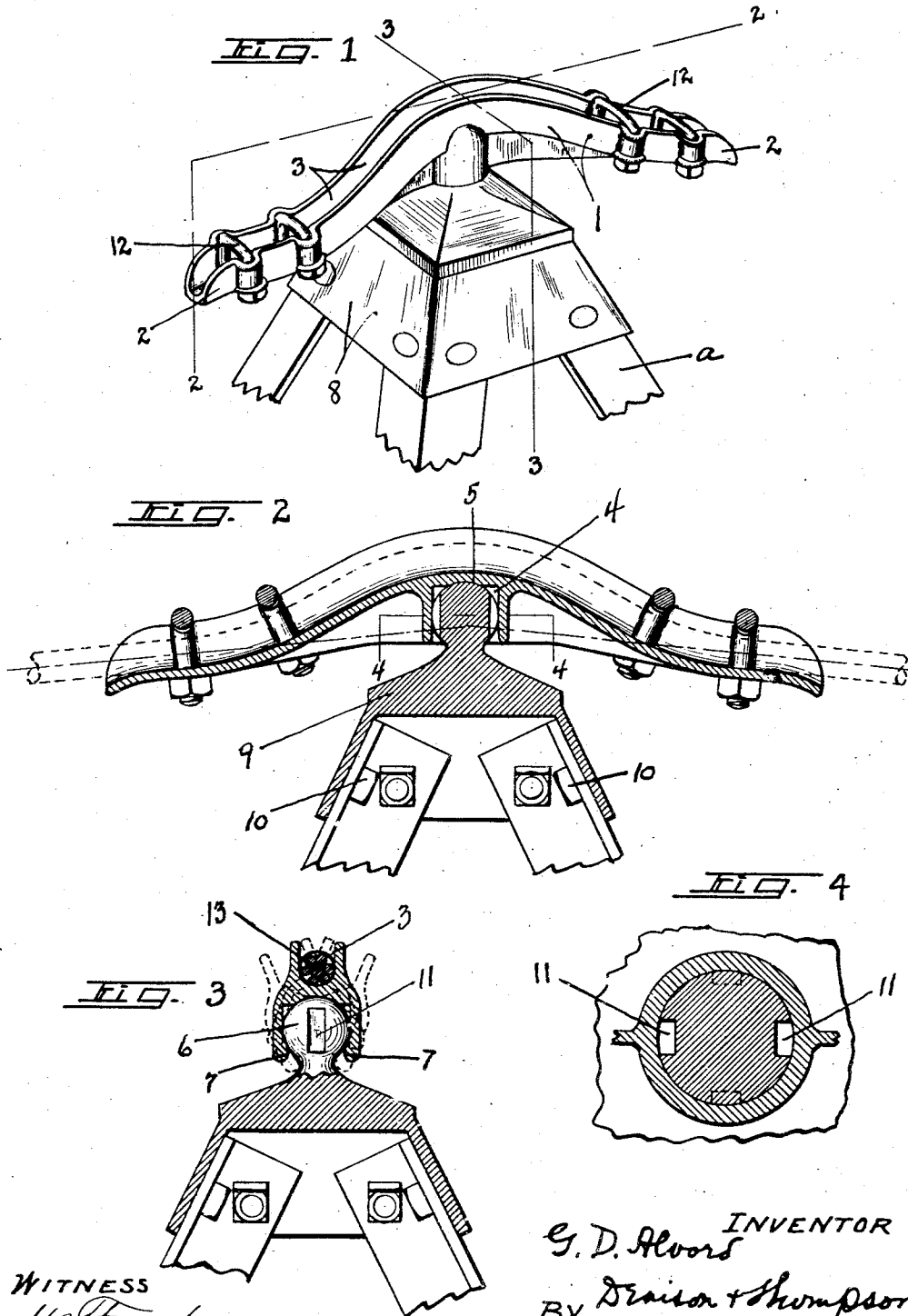
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CABLE BRACKET

Filed May 18, 1927



WITNESS

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UNITED STATES PATENT OFFICE

GROVE D. ALVORD, OF SYRACUSE, NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS,
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NEW JERSEY

CABLE BRACKET

Application filed May 18, 1927. Serial No. 192,262.

This invention relates to a new and improved bracket for attaching ground cables of high tension electrical lines to carrying towers or other supports.

5 The main object of my invention is to provide a means whereby a ground cable may be securely attached to a support by means of a flexible connection which will accommodate itself to any swaying or movement of the
10 cable.

Another object of my invention is to provide a means whereby the electrical connection between the ground cable and the support will be at all times positive without the
15 use of any auxiliary connections.

Heretofore ground cables have been attached in different makeshift ways and with the use of devices which were designed and made for entirely different purposes, or else
20 they have been attached by means of rigid connections.

My device is designed to give a clamp entirely different from and better than anything heretofore conceived.

25 Other objects and advantages relate to the details and form of the device, all as will more fully appear from the following description taken in connection with the accompanying drawings, in which:

30 Figure 1 is a perspective view of my device mounted on top of a carrying tower.

Figure 2 is a section on line 2—2, Figure 1.

Figure 3 is a section on line 3—3, Figure 1.

Figure 4 is a section on line 4—4, Figure 2.

35 In the different figures, like numbers refer to like parts.

My device consists of a saddle shaped upper member —1— with depending extremities —2, 2— and carrying a longitudinal groove —3— on the top thereof, said groove extending throughout the length of said member —1— and being open at both ends. Said groove —3— is substantially semi-circular with its opposite sides substantially perpendicular and extended above the axis of the semi-circular portion tangential to the ends thereof. The bottom of member —1— at substantially the center point thereof has an upwardly extending recess —4— substantially cubical in shape with a further recess
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—5— in the top thereof adapted to receive the top of a ball —6— and having on the bottom edge of said recess —4— two opposed inwardly extending lugs —7— on the sides corresponding to the longest dimension of member —1—.

The lower member of my device —8— consists of a body portion —9— adapted to be fastened to a tower —a— or other support by means of bolts —10, 10— or other convenient means. The body portion —9— carries on its top a ball —6— adapted to nest in recess —4—. On two opposed sides of ball —6— there are provided vertical slots —11, 11— of a size and shape to receive
65 lugs —7, 7—.

The ends of member —1— are provided with a cable clamping means such as clamps —12, 12— adapted to receive a cable —13— and confine it in groove —3—. 70

In operation my device works as follows:— bottom member —8— is fastened in position on tower —a— or other support with ball —6— extending upwardly and with slots —11, 11— facing the next adjacent towers 75 or other supports (not shown).

Upper member —1— is then positioned on top of ball —6— with lugs —7, 7— registering in slots —11, 11—. Upper member —1— can then be lowered until ball —6— nests in recess —5— with lugs —7, 7— below the center of the ball. Upper member —1— is then given a quarter turn placing groove —3— in a position to receive cable —13— longitudinally. In this position upper member —1— cannot be removed from lower member —8— as the distance between lugs —7, 7— is less than the diameter of the ball, but it may freely move in different directions. Cable —13— is then placed in groove —3— and fastened in position by clamps —12, 12—. Upper member —1— can now accommodate itself to the movement of cable —13— but will be held by such cable —13— from a rotary movement sufficiently great to permit
95 lugs —7, 7— to register with slots —11, 11—.

Altho I have shown and described a specific construction and form of parts, as illustrative of an embodiment of my invention, I do not desire to restrict myself to the exact 100

form, shape or arrangement of parts, as various changes may be made within the scope of the appended claims.

I claim:

5 1. In a device of the class described, a base plate adapted to be secured to the top of a support, a vertically extending ball on the top of the base plate, an elongated member having a recess in the bottom thereof adapted to receive and retain the ball, and to permit
10 free movement of the ball therein, a groove in the upper surface of the elongated member adapted to receive a cable, and means on each end of the elongated member for securing a
15 cable in the groove.

2. In a device of the class described, a base plate adapted to be secured to a support and having a ball extending vertically from the top thereof, a saddle shaped member having a
20 groove in its upper surface adapted to receive a cable and having a recess in its under surface adapted to receive and retain the ball, the ends of the saddle shaped member being so disposed in relation to the recess that a
25 line drawn between them will pass beneath the center point of the recess, and means for securing a cable in the groove in the saddle shaped member.

In witness whereof I have hereunto set my
30 hand this 5th day of May, 1927.

GROVE D. ALVORD.

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