R. C. BOOZER. INSULATOR SUPPORT. APPLICATION FILED JULY 11, 1914.

1,167,042.

.

•

Patented Jan. 4, 1916. 3 SHEETS-SHEET 1.

 \odot

Org.h.



Mitnesses Alle Callon Inventor Ralph C. Doorer By Toree Dain VMay attyo. Hirbert Halae

. .

.

.

1,167,042.

R. C. BOOZER. INSULATOR SUPPORT. APPLICATION FILED JULY 11, 1914.

Patented Jan. 4, 1916. 3 SHEETS-SHEET 2.



Habert Halin

Ralph C. Boozer By Jonee Daie May attis.

•

.

.

R. C. BOOZER. INSULATOR SUPPORT. APPLICATION FILED JULY 11, 1914.



Patented Jan. 4, 1916. 3 SHEETS-SHEET 3.





• .

athey W. Carloon Herbert Falue

•

.

•

& Fonce Dain May attion

· · ·

UNITED STATES PATENT OFFICE.

RALPH C. BOOZER, OF CHICAGO, ILLINOIS, ASSIGNOR TO JOSLYN MANUFACTURING & SUPPLY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

INSULATOR-SUPPORT.

1,167,042.

Specification of Letters Patent.

Patented Jan. 4, 1916.

÷.,

Application filed July 11, 1914. Serial No. 850,335.

To all whom it may concern: In Figs. 1 to 4 inclusive, both of the bolts Be it known that I, RALPH C. BOOZER, engage both of the major members and said a citizen of the United States, residing at bolts pass through the pole at right angles Chicago, in the county of Cook and Stateto each other, thereby not only securing the 5 of Illinois, have invented certain new and fixtures to the pole but also preventing the 60 useful Improvements in Insulator-Supports, pole from splitting or checking at the top, of which the following is a specification. in both directions. My invention relates to means for sup-The J-shaped member 11 is laterally deporting insulators for electric wires, and flected at its bottom, as at 15, for support 10 has especial reference to fixtures of this of an insulator 16 and after its attachment 65 character for support of wires intended to to the pole 12, by the bolt 14, it extends vercarry relatively high tension electric curtically into a bayonet 17, which is adapted rent upon poles. to support a grounded guard wire 18 by Some of the objects of my invention are means of a clip 19. The Z-shaped major 15 to simplify and cheapen the manufacture member 10 extends laterally, as at 20, for 70 of such devices; increase their strength and support of an insulator 21, and it extends efficiency and to generally improve their diagonally to its other terminal, and after adaptability for use upon poles varying in it is attached to the pole, as by the bolt 14, size and to increase their durability. it extends laterally in Figs. 1 and 5, as at My device is especially well adapted for 20° 22, for support of an insulator 23. support of wires carrying high tension cur-75 In the modification shown in Figs. 3 and rent. 4, the upper end of the member 10, 22' ex-In power, or other long distance transtends directly over the top of the pole, or mission systems the wires issuing from the in other words, it is deflected to the right 25 power house and extending to an objective instead of to the left, as in the former in- 80 point are usually in multiples of three and stance, and in order that the bayonet 17 may it is for accommodation of such conductors be sufficiently separated from the insulator that my supporting structure is preferably. 23, attached to the end 22', I deflect the intended. bayonet portion 17, as at 17', so as to sepa-30 Other and further objects of my invenrate this grounded guard wire support a 85 tion will become apparent to persons skilled sufficient distance from the insulator 23. in the art from a consideration of the fol-The structures shown in Figs. 5 and 6 lowing description when taken in conjuncare provided with another bolt 24, upon tion with the drawings, wherein--which are located spacing nuts 25-25 to 35 Figure 1 is an elevation of the top porhold the members 10 and 11 properly sepa- 90 tion of a pole showing my fixture attached rated, in accordance with the thickness of thereto. Fig. 2 is a similar view taken at the pole 12. The attaching nuts 26-26, in right angles to the plane in which Fig. 1 association with the bolts secure the major is included. Fig. 3 is a similar view to Fig. members in proper relation. To add some-40 1, showing a slight modification, to which what more strength to the structure I pre- 95 reference will be hereinafter more specififer to bend the member 11 into an elbow cally made. Fig. 4 is a view thereof similar as at 11' which is separated from the axis to Fig. 2. Fig. 5 is another slight modificaof the pole 12 some distance to afford a tion. Fig. 6 is an elevation taken at right somewhat stronger bracket support, for the 45 angles to Fig. 5. insulator 21. In all the views the same reference char-100 The entire structure is made of angle iron, acters refer always to the same parts. as usual, and the weight of the wires car-In the preferred form, shown in Figs. 1 ried by the structure is practically balanced and 2, and in both modifications thereof, the and properly distributed with reference to 50 support consists of two major portions 10 the respective members. and 11 and in each instance these parts are 105 To apply my fixture to a pole it is only located on opposite sides of the pole 12, and necessary in any case to bore two holes, in each case only two attaching bolts 13 properly separated, through the pole through and 14 are placed through the poles to hold which the attaching bolts 13 and 14 are to 55 both of the members in place. pass. These holes may be bored through 110

•

1,167,042

the pole before the pole is erected or subsequently thereto, by a man upon the pole, as there is no fitting or trimming necessary for the application of the device.

While I have shown herein two modifications of my device for the purpose of indicating the direction in which my invention may depart from the preferred form, it is evident that it is susceptible of further 10 modification within the scope and intent of the appended claims.

Having described my invention, what I claim with a view and desire to secure by Letters Patent is: 15 1. An insulator support comprising a member having a horizontal part at each of its ends for reception of an insulator pin, and an intermediate diagonal part for attachment to a pole, and another member 20 having a horizontal part for reception of an insulator pin, a diagonal part for attachment to a pole and a vertical part for extension above the pole. 2. An insulator support comprising a 25 member having a horizontal part at each of its ends for reception of an insulator, and an intermediate diagonal part for attachment to a pole, and another member having a horizontal part for reception of the in-30 sulator pin, a diagonal part for attachment to a pole, and a vertical part for extension above the pole, said members being perforated through said diagonal parts whereby both members may be secured to a pole

a single bolt, and both members laterally deflected above said attaching parts toward the center of the pole at right angles to the said point of attachment and perforated, 60 whereby another bolt, taking through the pole at substantially 90 degrees from the first mentioned bolt, will secure both members to the pole at the latter point of at-65 tachment.

5. A device of the character described comprising a pair of insulator supporting members, one having an intermediate diagonal portion, said members adapted to be positioned on opposite sides of a pole and 70 attaching means for securing the members to the pole at the point of their intersections. 6. A device of the character described comprising a pair of insulator supporting 75 members, each having an intermediate diagonal portion, said members adapted to be positioned on opposite sides of the pole, and attaching means for securing the members to the pole at the point of intersection, both 80 members being laterally deflected at one side of said attaching means and a second attaching means passing through the laterally deflected portions and the pole at approximately right angles to the first attach-85 ing means. 7. An angle iron insulator support having a diagonal portion for attachment to a post, means passing through one leg of the angle iron for securing the support to a 90 post, said support being laterally deflected to contact with the post at a second point and attaching means passing through the other leg of the angle at the second men-95 tioned point. 8. An angle iron insulator support having a diagonal portion for attachment to a post, a bolt passing through the post and one leg of the angle iron, said support being laterally deflected to contact with the post 100 at a second point, and a second bolt passing through the post and the other leg of the angle iron at approximately right anglesto the first bolt. In testimony whereof I hereunto set my 105 hand in the presence of two subscribing witnesses.

35 by a single bolt.

3. An insulator support comprising a member having an intermediate diagonal part, the terminal ends whereof are adapted to receive an insulator pin, and a J-shaped 40 member, the lower terminal end whereof is adapted to receive an insulator pin, the upper vertical end of the latter being adapted to extend above the pole, said members adapted to cross on the pole and to be se-45 cured thereto by a single bolt.

4. An insulator support comprising a member having a horizontal part at each end, for reception of an insulator pin, and an intermediate, diagonal part for attach-50 ment to a pole and another member having a horizontal part for reception of an insulator pin, a diagonal part for attachment to a pole and a vertical part for extension above the pole, said members being perfo-55 rated through said diagonal parts whereby

.

р<mark>ичн</mark>ана славана Посто славана сл

.

RALPH C. BOOZER.

. . .

.

•

In the presence of— MARY F. ALLEN, Forée BAIN.

both members may be secured to a pole by

.