Nov. 4, 1947. R. V. TICHOTA 2,430,259

ELECTRIC INSULATOR FOR FENCE POSTS

Filed March 21, 1947

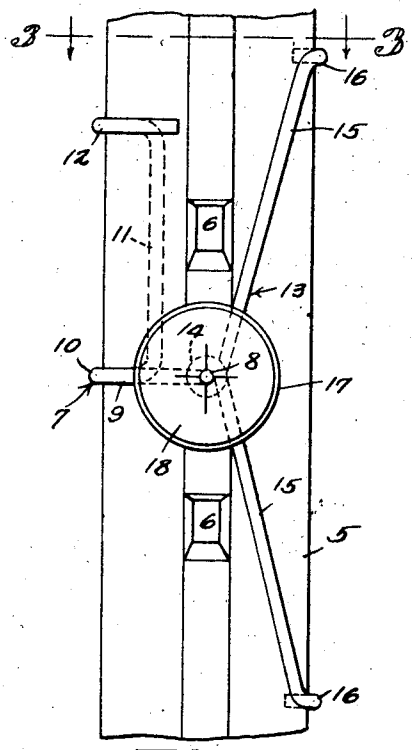


Fig. 1.

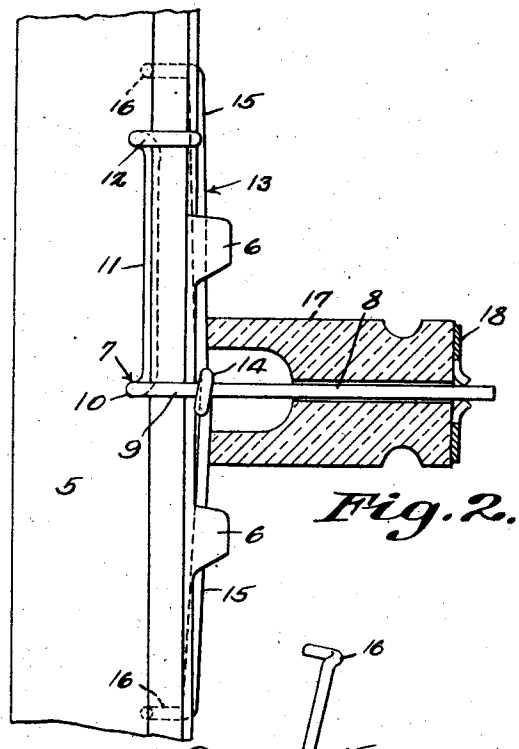


Fig. 2.

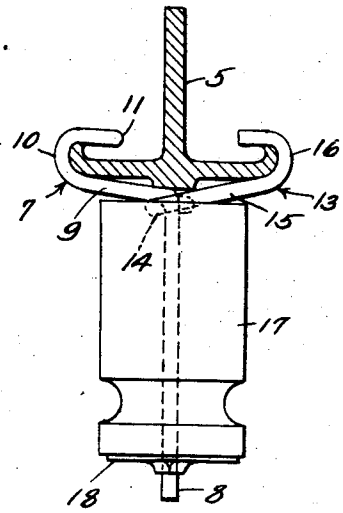


Fig. 3.

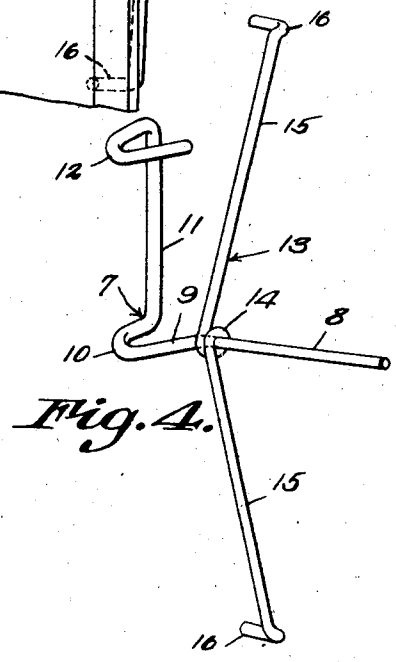


Fig. 4.

R. V. Tichota

INVENTOR

BY C. A. Snow & Co.

ATTORNEYS.

Patented Nov. 4, 1947

2,430,259

UNITED STATES PATENT OFFICE

2,430,259

ELECTRIC INSULATOR FOR FENCE POSTS

Rudolph V. Tichota, Dodge, Nebr.

Application March 21, 1947, Serial No. 736,201

4 Claims. (Cl. 174—161)

1

This invention relates to insulator supports designed primarily for use in connection with metallic fence posts used in the construction of electrically charged fences.

An important object of the invention is to provide a securing means for electric insulators, which is especially designed for use in connection with metallic fence posts constructed of T-iron, V-iron, U-iron or other suitable iron shapes, the insulator securing means being of a construction to securely grip the posts and be held thereon, without the necessity of using bolts, screws or similar securing devices.

Still another object of the invention is to provide a fastener of this character which may be readily removed and replaced to the end that vertical adjustment of the insulator along the post with which it is used, is made possible.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts, hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawing

Figure 1 is a fragmental elevational view of a post equipped with an insulator securing device constructed in accordance with the invention.

Figure 2 is an elevational view of the device, an insulator supported by the device, being shown in section.

Figure 3 is a sectional view taken on line 3—3 of Figure 1.

Figure 4 is a perspective view of the insulator securing device.

Referring to the drawing in detail, the reference character 5 indicates a metallic fence post, which is constructed preferably of T-bar material, the post being provided with the usual lugs 6 which are spaced apart, as clearly shown by the drawing, and between which I prefer to secure the insulators supported by the device.

The insulator securing device comprises a main supporting section 7 constructed of a length of wire material formed into a supporting shank 8 and a right angled end portion 9 which is curved as at 10 and extended substantially at right angles with respect to the portion 9, providing an arm 11 adapted to lie against the post, as shown by Figure 1 of the drawing.

The arm 11 is formed with a curved end 12 so

2

constructed that it fits around one edge of the post to clamp it to the post.

The insulator attaching device also includes the section 13 which embodies a length of spring wire material bent at a point intermediate its ends to provide an eye 14 for the reception of the supporting shank 8, as clearly shown by Figure 4 of the drawing.

The section 13 embodies arms 15 that are formed with hooks 16 at its ends thereof, to hook over the flange of the fence post with which the device is used.

These arms 15 are disposed at oblique angles with respect to the supporting shank 8, so that they may be readily fitted over a fence post, and the hooks 16 positioned.

It might be further stated that these arms when positioned, have their inner ends spaced from the right angled portion 9 so that when positioning the insulator, which in the present showing is indicated by the reference character 17, the inner ends of the arms 15 will be sprung downwardly to exert outward pressure on the insulator 17.

The insulator 17 is constructed of porcelain or similar insulating material, and against the outer end thereof is positioned the washer 18, on the outer end of the supporting shank 8, the washer having an opening formed by slitting the washer to provide fingers. These fingers are adapted to frictionally contact with the supporting shank 8, as the insulator 17 is positioned thereover and pressed towards the securing section 13, pressing the section 13 into close engagement with the outer surface of the post on which the device is positioned. The section 13 now becomes flattened and outward pressure of the section 13, will tend to cause the fingers of the washer to bite into the shank 8 and hold the insulator against displacement.

It will, of course, be understood that by exerting excessive force on the insulator from a point at its inner end, as by means of a prying tool, it will be possible to remove the insulator from the post.

It might be further stated that the insulator is provided with a groove whereby the charged electric wire may be secured thereto by wrapping the wire around the insulator.

From the foregoing, it is believed that the construction of the attaching device will be obvious, and that further detail description as to the structure and operation of the device is unnecessary.

What is claimed is:

1. An attaching means for attaching insulators

to metallic fence posts, comprising a main section constructed of a length of spring wire material, one end of the main section being extended at right angles providing a supporting stem, an adjustable section embodying a length of spring wire material formed with an eye intermediate its ends, through which the supporting stem is extended, connecting the sections of the attaching means, hooks at the ends of the said sections adapted to grip the side edges of a fence post, an insulator having a central longitudinal bore through which the supporting stem extends, and frictional gripping means positioned on the outer end of the stem resting against the insulator.

2. An attaching means for attaching insulators to metallic fence posts, comprising a pair of wire sections adjustable with respect to each other, means on the wire sections for gripping a metallic fence post on which the attaching means is positioned, a supporting stem forming a part of the wire sections, an insulator having a longitudinal bore, said stem being extended through the bore of the insulator mounting the insulator on the stem, and means positioned against the outer end of the insulator for gripping the supporting stem, securing the insulator to the supporting stem.

3. An attaching means for attaching insulators to metallic fence posts, comprising a pair of gripping members constructed of spring wire material, means for connecting the members for adjustment with respect to each other, a supporting stem forming a part of one of the members, an insulator having a longitudinal bore through which the stem extends supporting the insulator,

a washer positioned against the outer end of the insulator, said washer having an opening formed therein, the opening providing spring fingers adapted to grip the supporting stem, securing the insulator against outward movement on the supporting stem.

4. An attaching means for attaching insulators to metallic fence posts, comprising a pair of spring wire members adapted to grip a supporting post, one of said spring wire members having an eye, the opposite member having one of its ends extended at right angles providing a supporting stem, said supporting stem being extended through the eye, adjustably connecting the members, an insulator having a longitudinal bore through which the stem extends and on which the insulator is adjustably mounted, and a gripping member positioned on the stem and engaging the outer end of the insulator, said gripping member gripping the stem beyond the end of the insulator, preventing reverse movement of the insulator on the stem.

RUDOLPH V. TICHOTA.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
2,234,989	Tkach	Mar. 18, 1941
2,278,852	Hoffman	Apr. 7, 1942
2,306,389	Jorgensen	Dec. 29, 1942
2,423,785	Markman	July 8, 1947