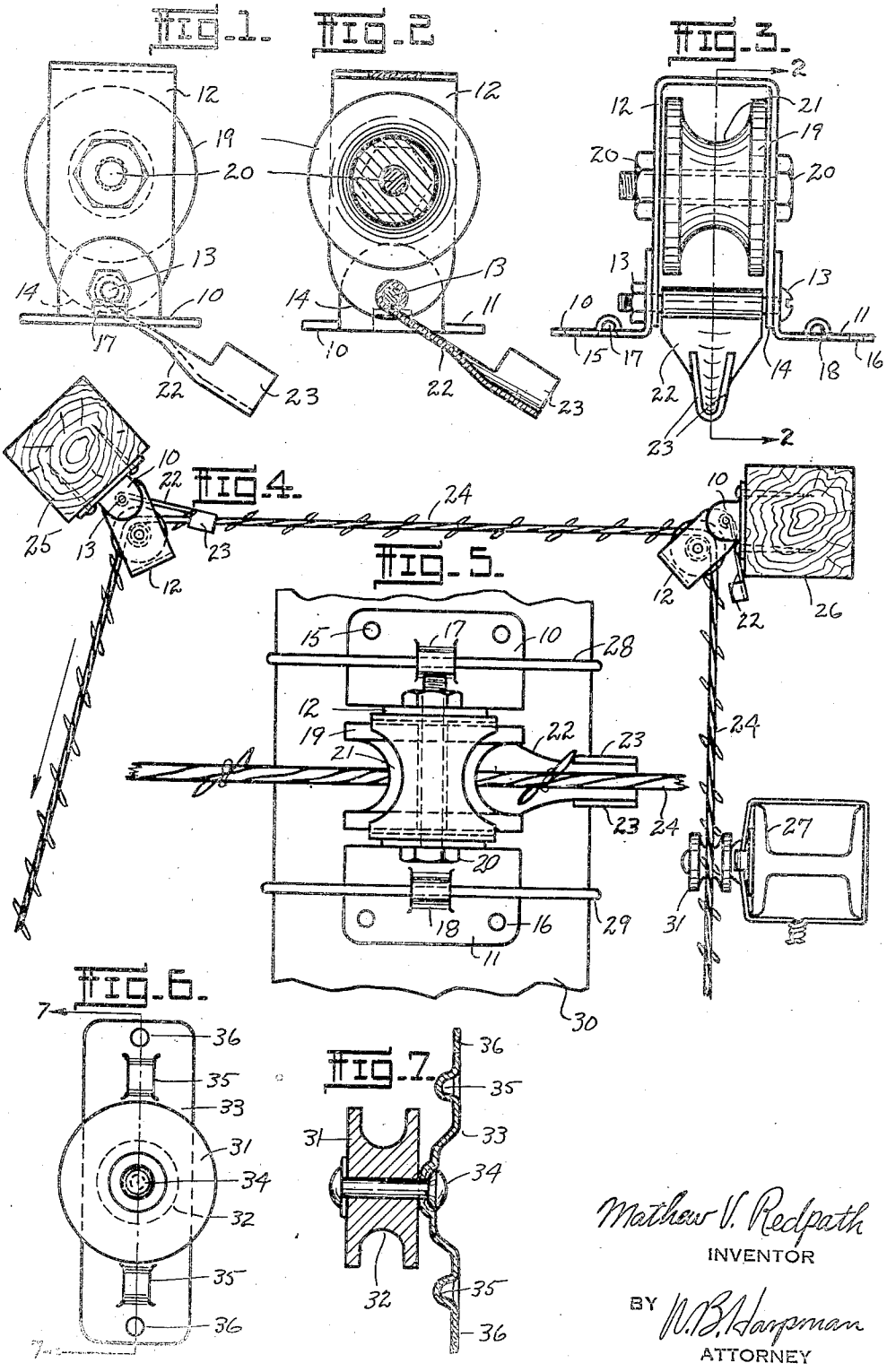
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ELECTRIC FENCE INSULATOR

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Mathew V. Redpath
INVENTOR

BY W. B. Harpman
ATTORNEY

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ELECTRIC FENCE INSULATOR

Mathew V. Redpath, near Columbiana, Ohio

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This invention relates to electric fencing and more particularly to an insulated bracket used in connection therewith.

The principal object of the invention is the provision of an insulated corner bracket for electric fencing.

A further object of the invention is the provision of an insulated corner bracket incorporating means for holding a fence wire in stretched position.

A still further object of the invention is the provision of an insulated bracket for electrical fencing incorporating means facilitating the mounting of a bracket on steel or wooden posts.

A still further object of the invention is the provision of a method of installing an electrical fence including stretching the fence over rotatable insulators and holding each straight section of fence in stretched position while subsequent sections thereof are installed.

The electrical fence insulator shown and described herein has been designed to facilitate the construction of single wire electric fences which are commonly employed for fencing in live stock. The principal novelty in the invention resides in the formation and construction of the insulated bracket which construction enables it to be used to hold a stretched section of fence while subsequent sections thereof are erected.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein—

Figure 1 is a side elevation of the insulating bracket.

Figure 2 is a cross sectional side elevation of the insulated bracket.

Figure 3 is an end elevation of the insulated bracket illustrated in Figure 1. Lines 2—2 on Figure 3 indicate the cross section illustrated in Figure 2.

Figure 4 is a top plan view of a section of fencing illustrating the use of two of the insulated corner brackets shown in Figures 1, 2 and 3.

Figure 5 is an enlarged end elevation of one of the insulated corner brackets illustrated in Figure 4 and shows a modification in the bracket attachment means.

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Figure 6 is a front elevation of a bracket carrying an insulator rotatably mounted thereon for use in connection with the insulated corner bracket shown in Figures 1, 2, 3, 4 and 5.

Figure 7 is a cross sectional side elevation taken on lines 7—7 of Figure 6.

By referring to Figures 1, 2 and 3 of the drawings it will be observed that an insulated corner bracket has been disclosed which consists of a pair of flanged base members 10 and 11 which support in pivotal relation thereto an inverted U-shaped body member 12. The body member 12 is pivotally affixed to the pair of flanged base members 10 and 11 by suitable means such as a bolt and nut assembly 13 as shown or a cotter key (not shown). The end portions of the U-shaped body member 12 are rounded, as indicated at 14, to provide for the partial rotation of the body member 12 about the pivot 13. Each of the flanged base members 10 and 11 are provided with punched openings 15 and 16, respectively, and raised loops 17 and 18, respectively, one or both of which are used in attaching the insulated bracket to a supporting means such as a fence post. The punched openings 15 and 16 provide for the insertion of a nail or screw and the loops 17 and 18 provide for the passing of a wire therethrough so that the device may be wired to a metal post. The U-shaped body member 12 has an insulator 19 positioned in a rotatable manner, as by means of a bolt and nut assembly 20, the insulator 19 being circular in shape and having a deep annular groove formed in the periphery thereof, as indicated by the numeral 21 in Figure 3. The bolt and nut assembly 13 which forms the pivot between the body member 12 and the flanged base members 10 and 11 has an arm 22 attached thereto by means of an eye formed in one end thereof, the arm 22 being positioned between the arms of the body member 12. The outermost end of the arm 22 is provided with a pair of upturned brackets 23 which define a channel therebetween lying on the central axis of the device and particularly in line with the deep annular groove 21 in the periphery of the circular insulator 19 thereof.

By referring now to Figures 4 and 5 of the drawings the manner of using the insulated corner bracket will be seen. In Figure 4 a section of fencing utilizing a barbed wire 24 is illustrated as positioned between a pair of corner posts 25 and 26, respectively, and a line post 27. The

insulated corner brackets are shown attached to the posts 25 and 26 by means of nails and the arm 22 of the bracket attached to the post 25 is shown holding the barbed wire 24 in stretched position as the brackets 23 on the arms 22 have been moved into position adjacent one of the barbs of the barbed wire 24 so that the stretched wire 24 is directly supported by the arms 22 and the bolt and nut assembly 13 which in turn is carried by the flanged base members 10 and 11. The barbed wire is passed through the device in the area between the insulator 19 and the arms 22. An arrow in Figure 4 indicates the direction of installation of the fence and by referring to the other corner post 26, as illustrated in Figure 4, the completely stretched and installed section of the fencing may be seen to pass through the insulated corner bracket attached to the post 26 and it will be observed that the arm 22 has been disengaged from the barbed wire 24 so that the wire is supported entirely on the insulator 19. It will thus be obvious that the arm 22 is used only during the construction of the fence to hold each section of the fence in stretched position as it is being erected and that immediately after the erection is completed the arms 22 are disengaged from the fence so that they will not cause a short when the electrical circuit is established through the wire 24.

By referring now to Figure 5 of the drawing an enlarged detail view of the use of the insulated corner bracket is illustrated it being observed that the brackets 23 on the arms 22 of the device engage the wire 24 by means of the barb formed thereon and thus serve to hold it. In Figure 5 the alternate method of attachment of the insulated corner bracket has been illustrated and attachment wires 28 and 29 are shown positioned through the loops 17 and 18, respectively, of the flanged base members 10 and 11, respectively, and passed about a metal post 30.

In Figures 4, 6 and 7 a rotatable insulated bracket has been illustrated and is used in connection with supporting straight sections of fencing formed with the insulated corner brackets heretofore described. By referring to Figures 6 and 7 these rotatably positioned insulated brackets may be seen to comprise a circular insulator 31 having a deep annular groove 32 formed in the periphery thereof, the insulator being supported on a base member 33 by means of a rivet or other suitable fastener 34 and the base 33 being provided with loops 35 and punched openings 36 so that it may be attached to either a wooden or metal post by either nails or wires as heretofore described in connection with the insulated corner bracket. The rotatable insulated bracket enables the insulated corner brackets to be used in stretching the fencing wire.

It will thus be seen that a simple and efficient insulated bracket has been disclosed which may be advantageously used in forming electrical fences and that the bracket not only supports and positions the fence wire with respect to supporting posts but may be used to hold the fencing wire in stretched position during the installation thereof.

Having thus described my invention, what I claim is:

1. An insulated corner bracket for electrical barbed wire fencing including a pair of flanged base members having a U-shaped bracket pivotally attached thereto, a circular annularly grooved insulator positioned in the said bracket, and an arm pivotally attached at one end to the said base members and having wire engaging means formed on the other end thereof, the said wire engaging means comprising spaced brackets projecting from the said arm.

2. An insulated corner bracket for electrical barbed wire fencing including at least one base member, an insulator mounting bracket pivotally attached thereto, a circular annularly grooved insulator positioned in the said bracket and an arm pivotally attached at one end to the said base member and having wire engaging means formed on the other end thereof, the said wire engaging means comprising spaced relatively short secondary arms projecting from the said arm at right angles thereto.

3. An insulated corner bracket for electrical fencing including a flanged base member, an insulator mounting bracket pivotally attached thereto, a circular annularly grooved insulator rotatably positioned on the said bracket and spaced with respect to the said base member, and an arm pivotally attached at one end to the said base member and having wire engaging means formed on the other end thereof, said wire engaging means comprising a bifurcated section on the said arm formed at right angles thereto.

4. An insulated corner bracket for electrical barbed wire fencing comprising a pair of flanged base members, a pivot member engaging the said flanged base members, a U-shaped bracket engaging the said pivot member, a secondary pivot member positioned through said U-shaped bracket, an insulator positioned on said secondary insulator in the U-shaped bracket, an arm pivotally attached to the first mentioned pivot member, the said arm having an end portion U-shaped in cross section and defining a bifurcated portion at right angles to the plane of the said arm.

MATHEW V. REDPATH.

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