Dec. 14, 1948. A. E. WEBER 2,456,547

ELECTRIC FENCE WIRE FASTENER

Filed Jan. 21, 1948

Fig. 1.

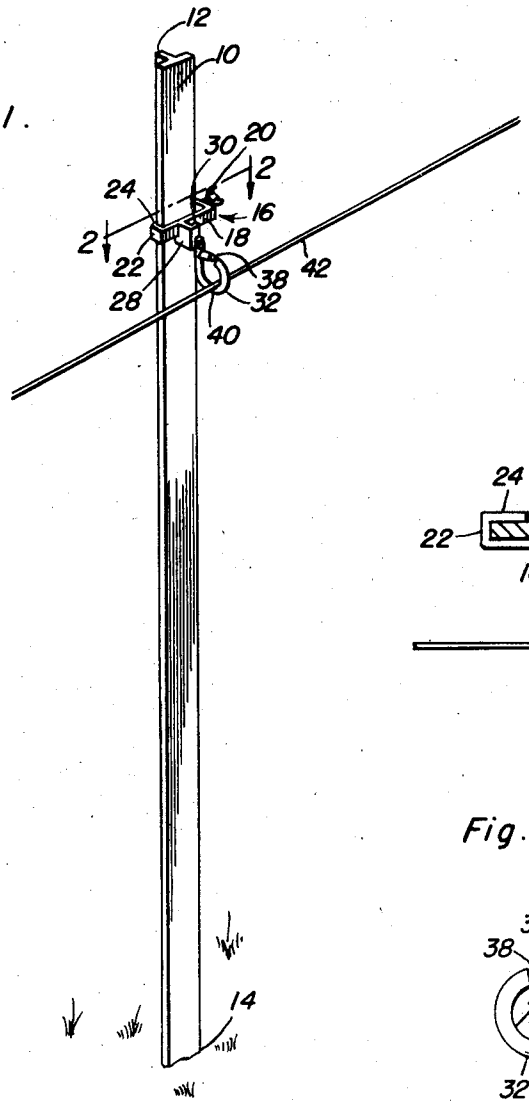


Fig. 2.

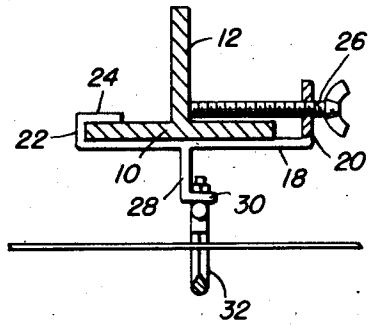


Fig. 3.

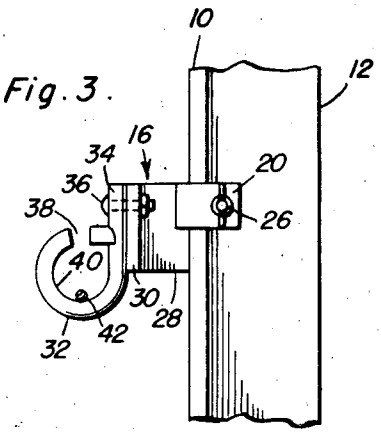
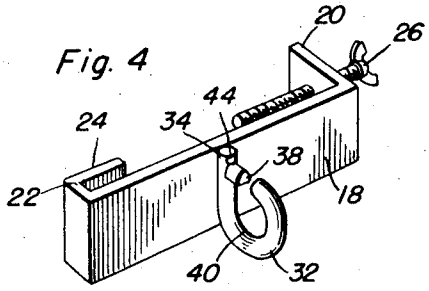


Fig. 4



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ELECTRIC FENCE WIRE FASTENER

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5 Claims. (Cl. 174—211)

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This invention relates to a device adapted and designed to detachably support a strand of electric wire to a fence post and is an improvement over my Patent No. 2,067,688, issued January 12, 1937.

By way of improvement over my prior patent, the present invention relates to a manually regulated and more conveniently adjustable wire fastener device for use on any type of suitable support, such as a fence post T-shaped in cross-sectional form.

The principal object of this invention is to provide a wire fastening bracket designed for coordination with any suitable type of fence post, wherein said bracket will detachably support on the fence post an electric conductor, such as an electric wire.

Another object of this invention is to maintain a plurality of electric wires in coordination with a suitable fence post, in such a fashion that water and moisture are prevented from adhering to the electric wire, adjacent the bracket, and grounding the fence.

Another object of this invention is to provide a wire fastening fixture or bracket wherein the wire may be more easily and conveniently secured to a fence post.

A meritorious feature of this invention is the provision in a wire fastener of a ring-like or annular member, which comprises a retaining element to support the wire to the bracket, which is secured around the fence post, the ring being provided with a radial slot or aperture to easily and conveniently enable the wire to be inserted within the ring.

Another feature of this invention is the provision of a ring-like wire retaining member, which is insulated and tapered inwardly to terminate in a feather edge disposed on the inner circumference of the ring in order to support the electric wire high and dry to obviate the possibility of water or moisture adhering to the wire adjacent the inner circumference of the ring.

Another feature of this invention is the provision of a clamp, supporting the ring to a suitable fence post, the clamp being easily and swiftly attached and detached.

With these and ancillary objects and other meritorious features in view, this invention consists of certain structural features and arrangements of parts, as will become more apparent as the following description proceeds and in view of the accompanying drawings wherein:

Figure 1 is a perspective view of a suitable post support, illustrating the electrical wire fastener

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assembly constructed in accordance with this invention;

Figure 2 is a transverse sectional view taken substantially from the plane of the line 2—2 on Figure 1;

Figure 3 is an elevational view showing a fragmentary portion of the fence post and wire fastener assembly as shown generally in Figure 1, and,

Figure 4 is an enlarged perspective view of a modification of the wire fastening device, constructed in accordance with the principles of this invention.

Referring now more particularly to the drawings, wherein an embodiment of this device is illustrated, and in particular Figures 1 to 3, inclusive, wherein similar characters of reference refer to similar parts throughout, there is shown a wire fastening fixture or bracket constructed according to this invention and shown in association with a T-shaped cross-sectional fence post 10.

The fence post comprises a plate or head portion 10 and a rib portion 12 formed integrally therewith and extending outwardly at right angles therefrom and positioned midway the longitudinal edges of the head or plate member 10, with the post seated in the ground 14.

Detachably secured to the fence post is a slidable fixture or bracket generally denoted by the character reference 16, which comprises a strap-like member 18, having its opposite ends 20, 22 bent laterally and offset at right angles to the longitudinal plane of the strap-like member. Lateral end extension or offset portion 22 has its end 24 bent inwardly to provide a retaining hook or clamp.

A suitable aperture is centrally disposed in the opposite offset portion or lateral extension 20 and is adapted to receive therein a wing bolt 26.

An outwardly extending portion 28 is formed on the face of the strap 18 and terminates in an angularly bent portion 30, which is bent parallel to the plane of the strap-like member 18.

It can thus be seen, with reference to Figure 2 of the drawings, wherein the clamp is shown secured to a T-shaped post, though this is meant to impart nothing in the way of limitation thereto, that the clamp is secured to the post by hooking or adjusting the channel hook portion formed by the end portion 24 of the lateral extension 22 and the strap-like member 18, around the longitudinal edge of the post and then tight-

ening up or screwing in the wing bolt **26**, until the end of the bolt contacts the rib portion **12**.

Suitably secured to the parallel extension **30** of the outwardly extending portion **28** by means of an aperture formed therein is an annular member or ring-like member, generally denoted by the numeral **32**, which is adapted to retain and detachably support a strand of electric wire or a suitable electric conductor.

Formed integrally with the ring-like member **32** is an upstanding substantially straight portion **34**, having an aperture formed therein and into which is inserted a bolt assembly **36**, which is inserted also through the aperture in the parallel portion **30** for securely affixing the ring-like member to the clamp **16**.

A radial slot **38** of suitable dimensions, so as to provide an ingress point for a strand of wire, is provided in the ring **32** and is adapted to allow the strand of wire to be gradually lowered into the supporting inner surface of the ring.

The inner surface or circumference of the ring tapers inwardly and terminates in a feather-edge inner circumference **40**, upon which a wire **42** is seated and which supports the wire **42** in a high and dry state, and prevents the accumulation of any moisture on the electric wire or conductor adjacent the ring seat, so as to obviate any possibility of the electric fence being grounded by the moisture.

Attention is now directed to Figure 4 of the drawings, wherein a modification of this invention is shown and which comprises the same clamping means, as above described, with the forwardly extending portion and lateral terminating section thereon **28** and **30**, respectively, dispensed with and the retaining ring carried directly to the face of the strap and supported directly thereon.

Of course, it is understood that the ring is to be constructed of suitable insulated material, such as, porcelain or the like, so that the charge in the wire is prevented from spreading to the clamp and the post.

It is also apparent that another modification of this invention is possible and would comprise the dispensing with altogether of the clamping means and the attachment of the ring directly to the face of the head or plate portion of the support, by means of a screw, such as the screw **44**, employed to attach the ring to the base of the strap-like member **18**, shown in Figure 4.

It is thought that the description taken in connection with the drawings will enable those skilled in the art to attain a clear and lucid understanding of the invention so that a more lengthy description is not thought necessary.

Of course, since many other uses and variations of the device will become apparent to those skilled in the art upon reading this description in connection with the drawings, it is to be understood that certain changes in style structure and arrangement of parts may be effected without a departure from the spirit of this invention within the scope of the appending claims.

Having thus described this invention, what I claim as new is:

1. A device for detachably securing a strand of electric wire to a support comprising a strap having lateral offset portions formed at each end, one of said offset portions terminating in an inturned portion, means supported parallel to the strap by the other offset portion for securing the strap to a support, a radially slotted ring secured to said clamp, a feather edged insulated inner circumference on said ring upon which the electric wire is seated.

2. A device for detachably supporting a strand of electric wire to a fence post comprising a strap having lateral offset portions formed at each end, one of said offset portions terminating in an inturned portion extending parallel with the strap for clamping engagement with a fence post, an aperture disposed in the opposite offset portion, a bolt mounted in said aperture for locking engagement with a fence post, an insulated radially slotted ring secured to the strap, a tapered feather edge disposed on the inner circumference of the ring.

3. A device for supporting a strand of electric wire to a fence post comprising a strap having lateral offset portions formed at each end thereof, one of said offset portions terminating in an inturned portion extending parallel with the strap for clamping engagement with a fence post, locking means mounted in the other offset portion, an angular offset portion secured to the face of the strap, an insulated notched ring supported by said offset portion said ring having a feather edge on the inner circumference thereof upon which the wire is seated.

4. A device for detachably supporting an electric conductor to a support comprising an insulated ring, a radial slot formed in the ring whereby a conductor may be placed within the ring, said ring tapering inwardly to terminate in a feather edged inner circumference for preventing the retention of moisture around the conductor.

5. In combination with a bracket adapted for detachable positioning on a support, a device for detachably supporting an electric conductor to the support comprising an insulated ring, a radial slot in the ring whereby a conductor may be placed within the ring, a tapered feather edge disposed on the inner circumference of the ring upon which the electric conductor is seated.

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