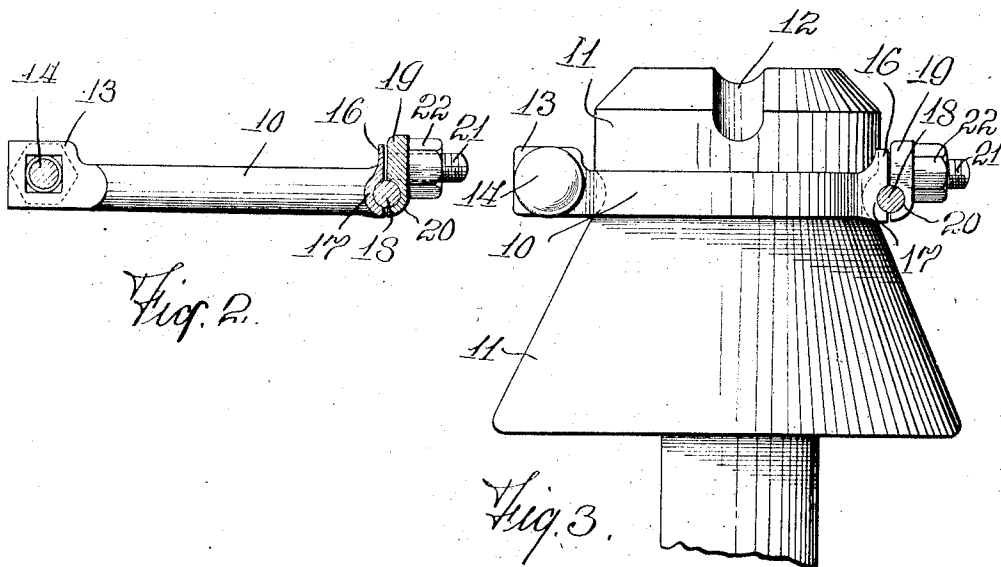
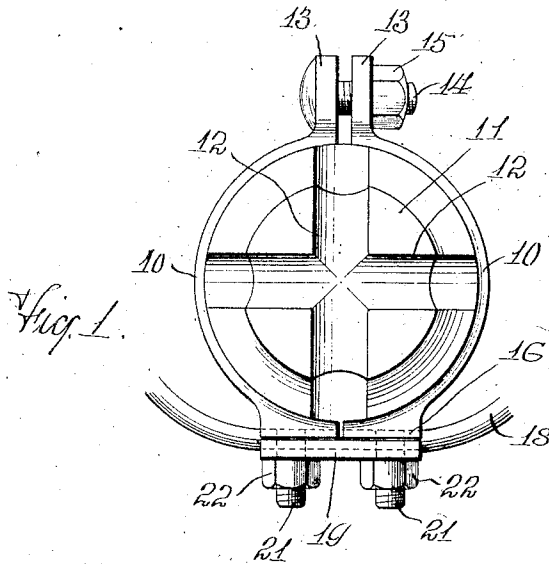


W. G. CLARK.
INSULATOR CLAMP.
APPLICATION FILED DEC. 28, 1908.

946,722.

Patented Jan. 18, 1910.

2 SHEETS—SHEET 1.



Witnesses:
Frank L. Stubbs.
Ralph Lancaster.

Walter G. Clark, Inventor,
By his Attorney,
W. C. Hutchinsons.

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2 SHEETS—SHEET 2.

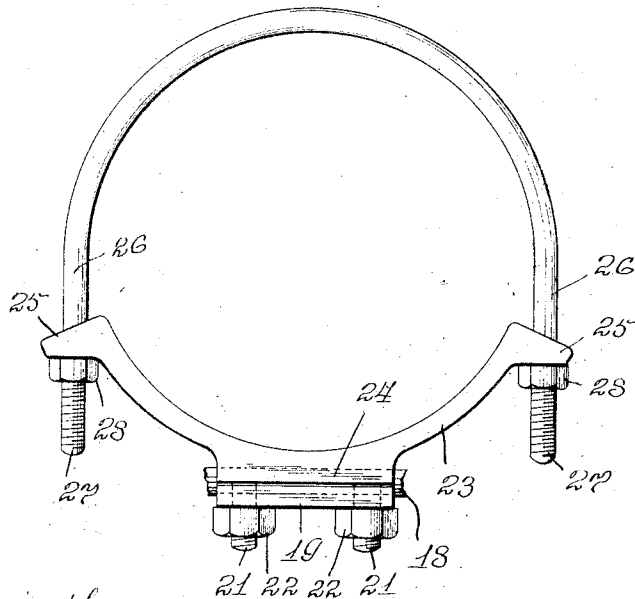


Fig. 4.

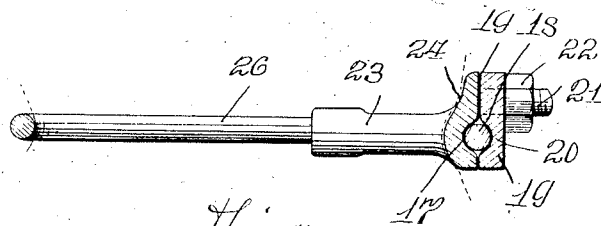


Fig. 5.

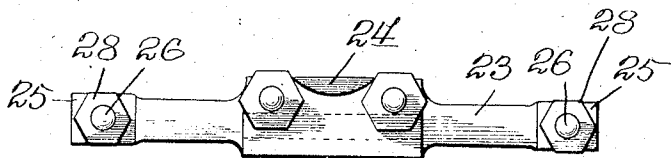


Fig. 6.

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UNITED STATES PATENT OFFICE.

WALTER G. CLARK, OF NEW YORK, N. Y.

INSULATOR-CLAMP.

946,722.

Specification of Letters Patent.

Patented Jan. 18, 1910.

Application filed December 23, 1908. Serial No. 463,691.

To all whom it may concern:

Be it known that I, WALTER G. CLARK, of the city, county, and State of New York, have invented a new and useful Improvement in Insulator-Clamps, of which the following is a full, clear, and exact description.

My invention relates to improvements in clamps such as are used to fasten a line wire to an insulator, and the object of my invention is to produce a clamp of this character which is cheap and simple, which is particularly easy to apply, and which will hold the wire as securely as is necessary.

My invention is especially intended to produce a clamp which is fully as serviceable and cheaper and simpler than clamps generally used for this purpose.

The invention is also intended to produce a clamp which can be used to great advantage on insulators around which the wire extends in a curved line or is extended out of a straight line in any way with relation to the insulator.

My invention is further intended to produce a simple clamp in which the parts are not only readily adjusted but are unusually secure.

With these ends in view, and with the general object of producing a clamp which is perfectly adapted for holding a line wire to an insulator, my invention consists of certain features of construction which will be hereinafter fully described and the novelty claimed.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar reference characters indicate corresponding parts in all the views.

Figure 1 is a plan view of my improved clamp as applied to a common form of insulator. Fig. 2 is a cross section showing the clamp in detail. Fig. 3 is a side elevation of an insulator provided with my improved clamp. Fig. 4 is a plan view of a slightly modified form of the clamp. Fig. 5 is a cross section of the structure shown in Fig. 4, and Fig. 6 is a side elevation thereof.

The clamp comprises two similar and generally semi-circular bands 10, which are preferably in the form of castings and which are also preferably curved on the inner side so that they can fit in the usual groove of the insulator 11. I have shown the clamp in connection with an ordinary insulator having crossing top grooves 12, so that if

desired a wire can be placed on the top of the insulator and bound in place in the usual manner. The insulator itself, however, has nothing to do with this invention, as it is applicable to any insulator having a side groove. The two clamping pieces or straps 10 have opposed flanges 13 at one side which are united by a suitable bolt 14 and nut 15, by which the clamping pieces can be tightened up to any necessary extent. At the front end the clamping pieces are widened vertically as shown at 16, and are concave on the front side as shown at 17 so that they will fit nicely against the line wire 18 which the clamp is intended to support on the insulator. Opposite the front end of the clamping pieces is arranged a tie-plate or coupling plate 19 which spans the joint of the meeting clamping pieces 10, and which is as wide or wider than the part 16 and has a concave inner side 20 forming a seat for the wire 18. The plate and the clamping pieces are held together by bolts 21 which can be integral with the parts 16 and can be separately applied, and these extend through the tie plate and are provided with nuts 22 so that by tightening the nuts the tie-plate 19 and the widened parts 16 of the clamping pieces can be made to grip the wire 18 to any desired extent.

It will be noticed that there are very few parts to this device, and that by simply manipulating the nuts 22 and the tie-plate 19, the wire can be bound to the clamping pieces as hard as desired, and that a single bolt 14 and nut 15 serves to tighten the clamping pieces to any desired extent on the insulator. In Figs. 4 to 6 I have shown the same principle, but slightly modified. Here instead of having the two clamping pieces arranged and shaped as shown in Figs. 1 and 2, I have a clamping piece 23 which fits the groove of an insulator and which has the thickened part 24 adapted to form a seat for the wire 18. The tie-plate 19 is used exactly as already described, and serves to grip the wire 18 and hold it against the thickened part 24 of the clamping piece 23. The clamping piece 23 has thickened or flanged ends 25 through which extend the threaded ends 27 of the second clamping piece 26, which in this case is in the form of a strap, and nuts 28 serve to fasten the two clamping pieces 26 and 23 together and to tighten them to any desired extent upon the insulator. It will also be observed that the

clamping pieces form the body of the insulator clamp, and that the essential thing is to have a simple means of attaching these clamping pieces to the insulator, to have the
5 seat on one part of the body of the insulator formed by these clamping pieces, and to have the plate arranged as shown to clamp the wire to the insulator body.

Having thus fully described my invention,
10 I claim as new and desire to secure by Letters Patent:—

1. In an insulator clamp, the combination of a body portion comprised of two members, a clamping bolt connecting the two
15 members at one of the junctions of said members and adapted to clamp said body portion upon an insulator, and a tie plate secured to that part of the body portion which is on the side of the insulator opposite the clamping bolt.
20

2. In an insulator clamp, the combination of a body portion comprised of two members, one of said members having a seat on the face thereof, clamping bolts for clamping
25 said body portion to an insulator, and a tie plate having fastening means independent of said clamping bolts and adapted to secure it opposite said seat of the body portion and at the same time clamp a wire between it and said seat.
30

3. An insulator clamp comprising separable members adapted to be clamped around an insulator, said members having a widened portion at one of the junctions of
35 the members making a seat for a line wire, with a tie plate clamped to said widened portion and adapted to clamp a wire on said

seat, and a clamping bolt independent of said tie plate and adapted to clamp said body members to an insulator.

4. An insulator clamp comprising separable members adapted to be clamped around an insulator and having a widened concave portion at one of the junctions of the said members, said widened portion
45 forming a seat for a line wire, a bolt projecting forward from each member at the widened portion, and a tie plate secured on said bolts and adapted to clamp a wire between itself and the widened portion of the
50 insulator clamp.

5. An insulator clamp comprising separable members adapted to be clamped around the body of an insulator and having a locking bolt to secure them at one end, the
55 opposite ends being formed into a seat for a line wire, and a tie-plate detachably secured to said seated ends of the said members and arranged to lock said members together and at the same time secure a wire between itself
60 and the said members.

6. An insulator clamp comprising opposed members adapted to be clamped around an insulator, the members at one junction having flanges to receive a bolt, and having the
65 opposed ends formed into widened seats to receive a wire, and a tie-plate adjustably clamped to said seats so as to secure a wire between itself and the said seats.

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Witnesses:

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