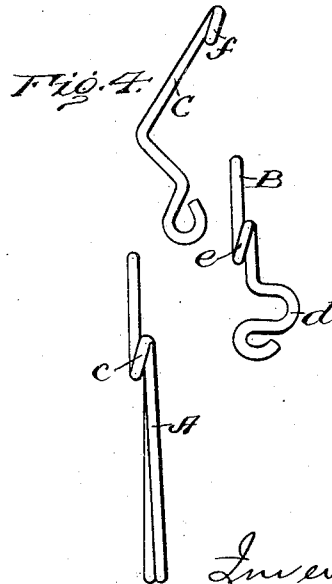
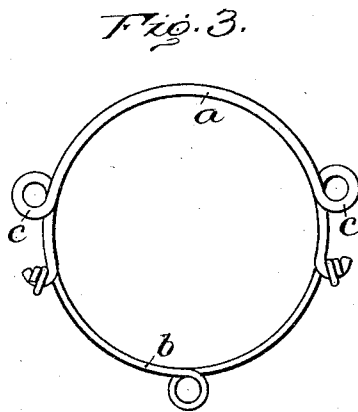
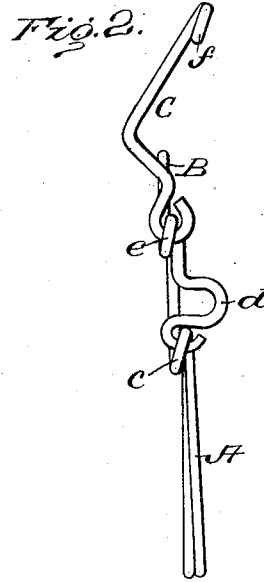
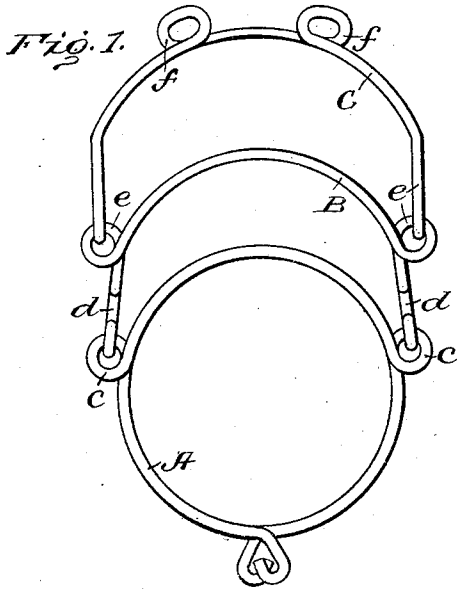


H. PARRA.
 MEANS FOR ATTACHING WIRES AND CABLES TO INSULATORS.
 APPLICATION FILED APR. 27, 1912.

1,054,138.

Patented Feb. 25, 1913.

3 SHEETS—SHEET 1.



Witnesses:
 R. C. Fitzhugh
 Jas. H. Anderson.

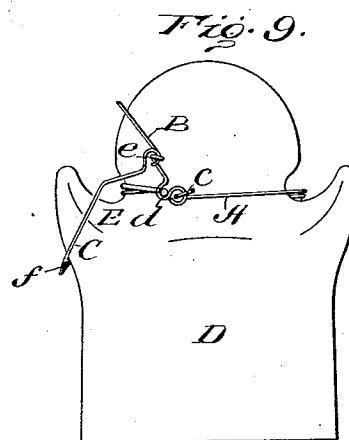
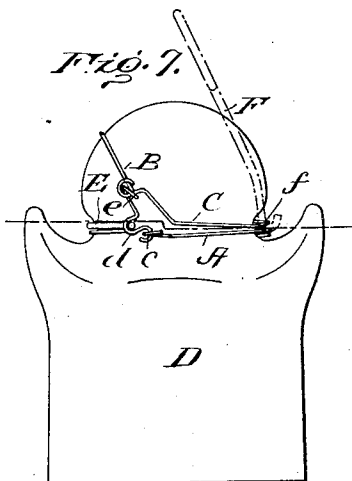
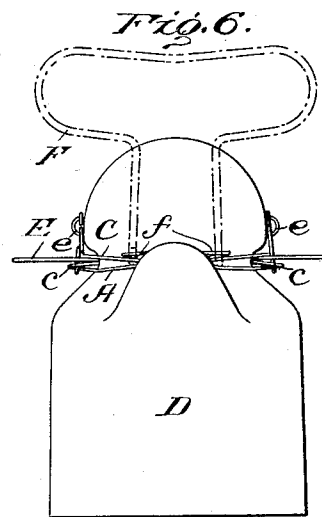
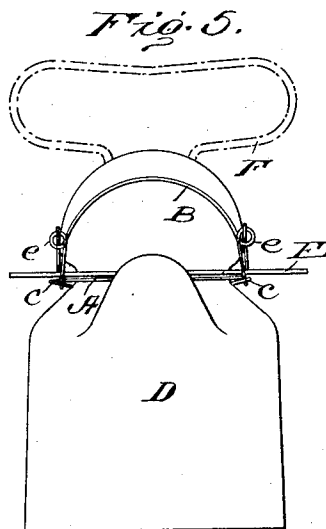
Inventor:
 Henri Parra,
 by
 Mauro Cameron, Lewis Thasie
 Attys.

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3 SHEETS—SHEET 2.



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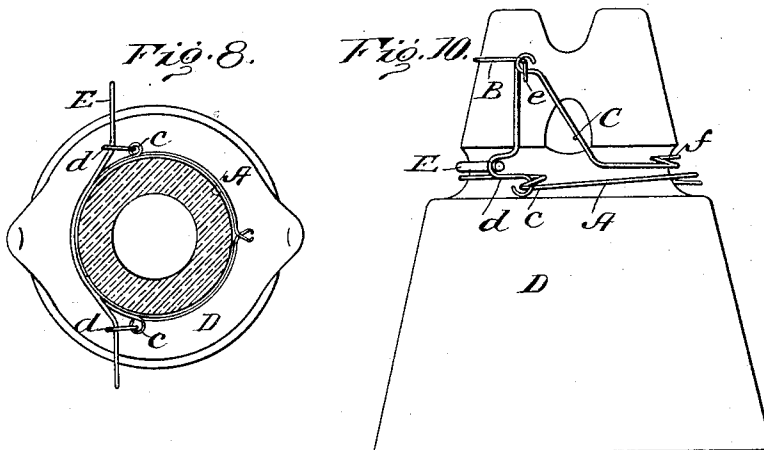
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3 SHEETS—SHEET 3.



Witnesses:
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Atty.

UNITED STATES PATENT OFFICE

HENRI PARRA, OF TOULOUSE, FRANCE, ASSIGNOR TO SOCIÉTÉ H. PARRA ET CIE., OF TOULOUSE, FRANCE.

MEANS FOR ATTACHING WIRES AND CABLES TO INSULATORS.

1,054,138.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed April 27, 1912. Serial No. 693,738.

To all whom it may concern:

Be it known that I, HENRI PARRA, of Toulouse, Haute Garonne, France, (whose post-office address is No. 29 Rue de Metz, Toulouse, Haute Garonne, France,) have invented a new and useful Improvement in Means for Attaching Wires and Cables to Insulators, which invention is fully set forth in the following specification.

The present invention has for its subject a clasp or securing device constructed of iron, wire or other metal, and which will enable conducting or other wires or cables of any kind, such for instance as electric, telegraph, telephone or other wires or cables, to be secured on insulators of all kinds in a reliable, quick and cheap way. This type of clasp or securing device comprises three elements, (1) an attachment collar which embraces or grips the annular throat of the insulator; (2) a clasp proper hinged at two points of the attachment collar and comprising two loops to receive the wire or cable; (3) a locking collar hinged at two points to the clasp and adapted to be forced over into the throat of the insulator so as to keep the cable in the clasp firmly in place and gripped against the insulator.

The manner in which the invention can be carried into effect will be understood from the following description with reference to the accompanying drawings which show by way of example devices constructed according to this invention.

Figure 1 is a view of the securing device laid out flat; Fig. 2 is a side view of Fig. 1; Fig. 3 shows a modified form of the attachment collar; Fig. 4 is a side view of the three component parts of the device; Figs. 5, 6, 7 and 8 are respectively a rear elevation, front elevation, side view and horizontal section of an insulator with the securing device applied thereto and in the locked position; Fig. 9 is a side view of the same insulator with the securing device in the open position; Fig. 10, shows a modification of Fig. 7.

The securing device consists as described of three different elements connected together.

1. The attachment collar A fitted exactly in the annular neck of the insulator D, and which may be in one piece having its ends crossed to enable the collar to grip the neck of the insulator. The attachment collar

may likewise be made in two pieces *a* and *b* Fig. 3, the part *b*, which can be readily replaced when worn, serving for causing the collar to grip the neck of the insulator.

2. The clasp B attached and hinged to the two ears *e e* of the collar A and having two loops *d d* into which the wire or cable is inserted. The clasp B has also two ears *e e* to which is hinged and attached the third member or locking collar. The clasp B fits on top of the head or cap of the insulator when this is spherical, or on the side of the head or cap in the case of conical insulators.

3. The locking collar C, hinged and attached to the two ears *e e*, and which is of circular form so as to fit accurately in the throat or neck of the insulator and prevent any shifting of the entire device; this locking collar has two ears *f f* at front, in which the operator can engage the arms of a stirrup shaped tool F as indicated in Figs. 5, 6 and 7, by means of which the locking collar C can be readily raised to enable the cable or wire to be removed from the clasp.

The securing device is used as follows:— The collar A having been placed in the neck of the insulator is tightened up until it embraces the same exactly so as not to yield to any movement. This is an easy and rapid operation, which can be done either before hand or on the post when the wire or cable is being fixed. The attachment collar being in position the wire or cable E is inserted into the two loops *d d* of the clasp B, and the locking collar C is forced over into the neck of the insulator either by the hand or with the aid of a stirrup-like tool F the arms of which are inserted into the ears *f f*. The clasp B is thus forced against the cap or head of the insulator and the cable is firmly gripped so that it cannot shift under traction.

In order to undo the device the arms of the tool F are if necessary inserted into the ears *f f* and the locking collar is raised, using the head of the insulator as a fulcrum for the tool.

What I claim and desire to secure by Letters Patent is:—

A device for attaching electric wires to insulator knobs, comprising an attachment collar adapted to be secured in the annular neck of an electric wire insulator, a clasp member hinged to the attachment collar and adapted to fit against the insulator, said re-

taining member having two loops for receiving an electric wire or cable and a locking collar hinged to the clasp member and adapted to be forced over into the annular
5 neck of the insulator and thereby retain the electric wire in place under said loops.

In witness whereof, I have hereunto

signed my name in the presence of two subscribing witnesses.

HENRI PARRA.

Witnesses:

LOUIS ROY,
L. DE ST. THIBAUD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."