

No. 824,172.

PATENTED JUNE 26, 1906.

W. CHAUSSE.
INSULATION CUTTER.
APPLICATION FILED OCT. 20, 1905.

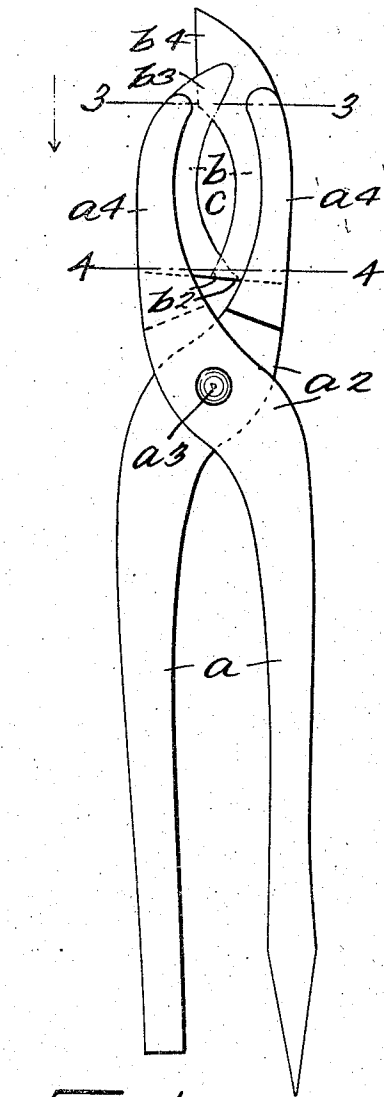


Fig. 1.

WITNESSES

J. C. Karsen
F. A. Stewart

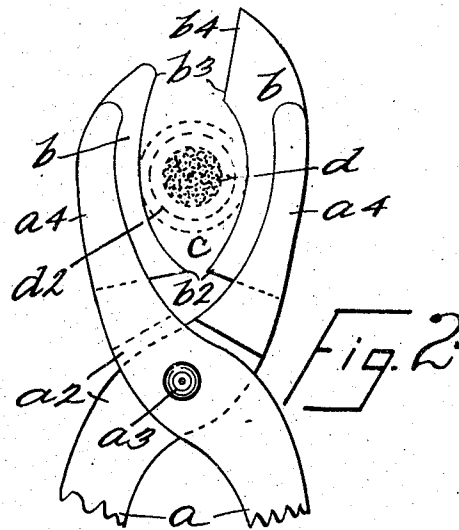
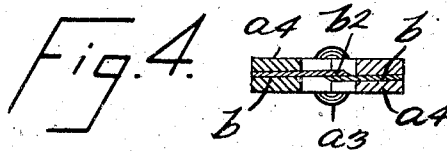
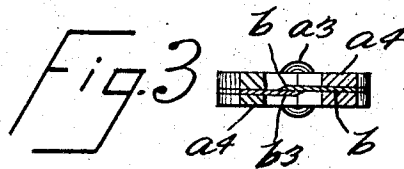


Fig. 2.



BY

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INSULATION-CUTTER.

No. 824,172.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed October 20, 1905. Serial No. 283,569.

To all whom it may concern:

Be it known that I, WILFRID CHAUSSE, a citizen of the United States, residing at Long Island City, in the county of Queens and State of New York, have invented certain new and useful Improvements in Insulation-Cutters, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to devices for use in cutting off and removing the insulation of electric cables in the operation of repairing said cables or making connections therewith; and the object of the invention is to provide an improved device of this class by means of which short sections of the insulation of electric cables may be cut off or separated from the main body thereof and said sections split longitudinally so as to facilitate their removal from the cable under certain conditions.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a side view of a device embodying my invention; Fig. 2, a similar view and showing a method of the operation of the device in cutting off a part of the insulation of an electric cable; Fig. 3, a transverse section on the line 3 3 of Fig. 1, and Fig. 4 a similar section on the line 4 4 of Fig. 1.

My improved device for cutting off or removing a part of the insulation of an electric cable is made of the general form of a pair of shears or pliers and comprises two handle members *a*, having curved shanks *a*², crossed and pivoted together at *a*³ in the manner of a pair of shears, and the said shanks are projected to form jaws *a*⁴, which are preferably from two to two and one-half inches long and the adjacent faces of which are preferably longitudinally concaved, and the ends of said jaws are tapered or curved inwardly.

Secured in each of the jaws *a*⁴ in any desired manner is a blade *b*, said blades being of the same general form as the jaws *a*⁴, and the cutting edges thereof are longitudinally concaved in such manner that when the handles *a*⁴ are pressed together and the blades *b* also forced together there is an elliptical opening *c* between said blades.

By reason of the formation of the blades *b*,

as above described, each blade is provided with a projecting heel portion *b*² and a projecting toe portion *b*³, and the jaws *a*⁴ and blades *b* are so shaped that the heel of one blade is in front and its toe behind the corresponding portions of the other blade, as shown in Fig. 1, and one of said blades is also provided at its toe end with a projecting member *b*⁴, whereby it is made longer than the other blade. The object of forming the blades, so that they will interlock, as above described, is to facilitate the operation thereof and prevent them from being wrenched out of position in cutting the insulation of an electric cable and twisting it off of the cable, and said blades may be made to interlock, as described, without beveling the edges thereof on the opposite sides.

The operation of cutting off a part of the insulation of an electric cable is shown in Fig. 2, in which the cable is indicated at *d* and the insulation thereof by the circular dotted lines *d*². This operation of cutting off a part of the insulation of an electric cable is similar to the operation of a pair of shears for a similar purpose; but when the blades *b* are forced inwardly so as to cut off a part or a section of the insulation, the device is also turned or rotated on the cable. In this operation the heel and toe portions of the blades *b* interlock, as shown in Fig. 1, and by wrenching or twisting the cutter or shears longitudinally of the cable the severed portion of the insulation may be moved longitudinally of the cable and slipped off of the end thereof if the cutting is done at the end of the cable. If it is desired to split the section or portion of insulation cut off longitudinally, the projected end member *b*⁴ of one of the blades is placed against the end of the cable and the end of the toe portion of the other blade is placed against the end of the section or portion of the insulation which has been cut off, and then by pressing the handles *a* together the section or portion of the insulation cut off will be longitudinally split, so that it may be unfolded from the cable, and this is the operation followed when the insulation is connected with the cable in such manner that the cut-off portion or section cannot be slipped off of the cable member and also when it is desired to remove or cut out or cut away a portion or section of the insulation of the cable at any point other than at an end thereof.

This device is simple in construction and operation and preferably adapted to accom-

publish the result for which it is intended, and while I have described my improvement as designed for use for the purpose of cutting off or removing a part of the insulation of an electric cable it will be apparent that the same may also be employed by plumbers and others for different purposes. It will also be apparent from the foregoing description that my improvement comprises simply a pair of shears having elongated jaws and blades of particular shape and constructed and operating in a particular manner.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A device of the class described, comprising a pair of handle members having crossed and pivotally-connected shanks, said shanks being provided with elongated jaws, and blades secured in said jaws, the cutting edges of said blades being longitudinally concave so as to form heel and toe portions

which interlock when said blades are forced together, substantially as shown and described.

2. A device of the class described, comprising a pair of handle members having crossed and pivotally-connected shanks, said shanks being provided with elongated jaws, and blades secured in said jaws, the cutting edges of said blades being longitudinally concave so as to form heel and toe portions which interlock when said blades are forced together, one of said blades being provided at its toe end with a projecting member, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 19th day of October, 1905.

WILFRED CHAUSSE.

Witnesses:

F. A. STEWART,
C. J. KLEIN.