

(No Model.)

F. M. CASEY.
INSULATED NIPPERS AND CUTTING INSTRUMENT.

No. 409,097.

Patented Aug. 13, 1889.

Fig. 1.

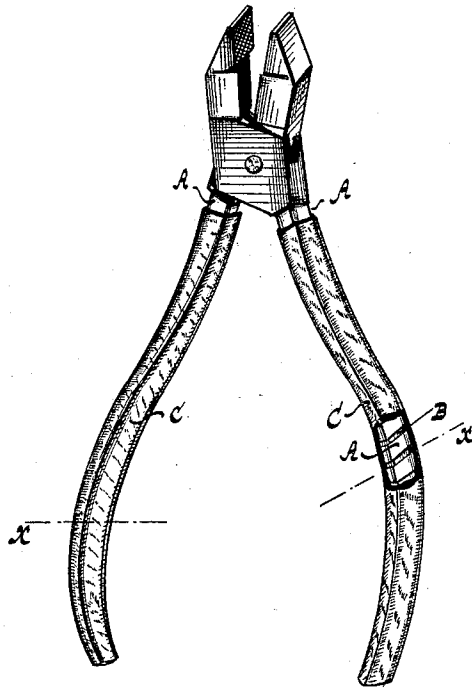


Fig. 2.



WITNESSES:

Adrian duRoi
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INVENTOR

Ermin M. Casey.

BY

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UNITED STATES PATENT OFFICE.

FIRMIN MICHAEL CASEY, OF MOUNT VERNON, NEW YORK.

INSULATED NIPPERS AND CUTTING-INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 409,097, dated August 13, 1889.

Application filed January 27, 1887. Serial No. 225,666. (No specimens.)

To all whom it may concern:

Be it known that I, FIRMIN MICHAEL CASEY, a citizen of the United States, residing at Mount Vernon, in the county of Westchester and State of New York, have invented new and useful Improvements in Insulated Nippers and Cutting-Instruments, of which the following is a specification.

This invention relates to the insulation of nippers and cutting-instruments in such a manner that an operator in cutting or handling therewith wires conveying a current of electricity will be protected from the electric current. This result is accomplished by covering or coating the handles of the instruments with insulating material—such, for instance, as glass, porcelain, or other vitreous material—so that when the operator uses the insulated instrument the charge or current of electricity will not be conveyed to his hand or body through or by means of its handle, and consequently he will be enabled to use the nippers or instrument with safety, and to cut the electric wires without danger of diverting the electric current through the handle to his hand or body.

My invention is further described herein-after, reference being had to the drawings, of which—

Figure 1 is a sectional perspective of nippers to which this improvement is applied. Fig. 2 is a cross-section in the lines *xx* of Fig. 1.

Similar letters indicate corresponding parts.

The letter A designates the handles of the nippers, which are coated or covered with suitable vitreous insulating material that will successfully resist the passage of a current of electricity. In order to properly secure the insulating material on the handles, so that it will not work off by use, recesses B B are formed in the handles, and the insulating material C is pressed into the recesses or caused to engage therewith in such a manner that the ends and sides of the recesses act as shoulders to prevent the insulating material from being moved, or from sliding on the handles, and to cause a permanent engagement between them.

When wires which convey electric currents are handled or cut, the current of electricity is liable to be diverted to the hand or body of the operator or workman, to the great danger of life or health. In order to prevent such danger and enable the workman to handle or cut such wires with safety, even when charged with electricity and in active use, the handles of the nippers are recessed, as shown, and are then coated or covered with the insulating material, so as to fully protect the hand when the workman is using the instrument, and prevent the passage of the electric current from the head of the nippers into the handles.

This invention relates to all metallic nippers and cutting-instruments whose handles or jaws have a scissors-like action for grasping, handling, or cutting wires or other electric conductors.

The insulating material used in carrying out this invention consists of glass, porcelain, or other suitable or efficient vitreous insulating fabric or material.

I do not restrict myself to the form of recess shown in the drawings, nor to the location thereof, as shown, as the form and location can be changed to suit the character of the insulating material, and to facilitate the application of the insulating material to the handles and insure its adhesion thereto.

I am aware that dental forceps have been sheathed with rubber or other non-conducting substance, and such I therefore disclaim.

What I claim as new, and desire to secure by Letters Patent, is—

As a new article of manufacture, nippers having handles covered with a vitreous insulating material, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

FIRMIN MICHAEL CASEY. [L. s.]

Witnesses:

ISAAC N. PRESSEY,
C. H. OSTRANDER.