J. H. COURTNEY.

WIRE STRIPPER.

APPLICATION FILED FEB. 7, 1914.

1,131,473. Patented Mar. 9, 1915.

Fig. 1.

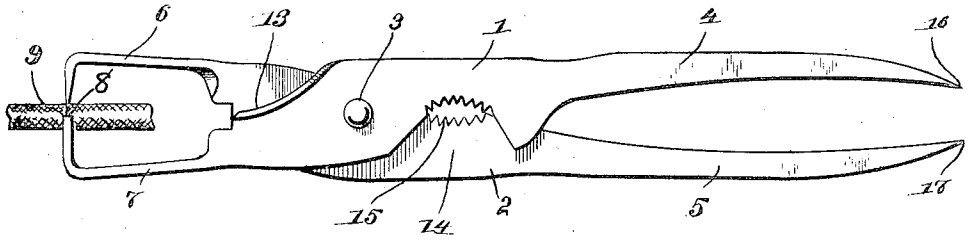


Fig. 2.

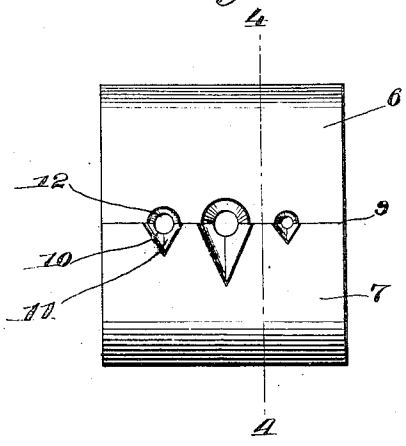
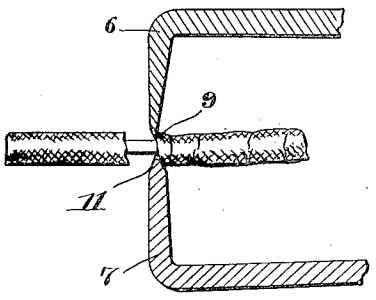


Fig. 3.



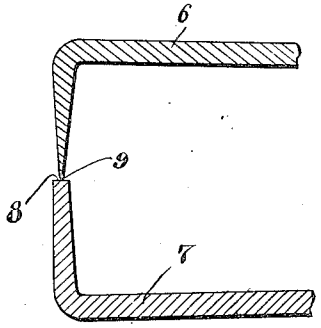


Fig. 4.

Witnesses

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WIRE-STRIPPER.

1,131,473. Specification of Letters Patent. Patented Mar. 9, 1915.

Application filed February 7, 1914. Serial No. 817,246.

To all whom it may concern:

Be it known that I, JOSEPH H. COURTNEY, a citizen of the United States, residing at Magdalena, in the county of Socorro and State of New Mexico, have invented new and useful Improvements in Wire-Strippers, of which the following is a specification.

This invention relates to a tool which may be used by electricians and linemen for various purposes in the installation of electrical apparatus, but in particular to a tool of this character which is adapted peculiarly for use as a wire stripper.

The primary object of the invention is to provide a wire stripper which is constructed so that it may be used effectively in stripping the insulating covering from electric conductors of varied sizes, without danger of severing the wire during this operation.

A further object is to provide a tool of the class set forth which is simple in construction and consists of few parts so as to be inexpensive in the cost of manufacture, easy to operate and very durable.

The invention consists in the features of construction, combination, and arrangement of parts, hereinafter fully described and claimed, reference being had to the accompanying drawings, in which:

Figure 1 is a side elevation of the tool, showing the same in use in splitting the insulating covering of an electric conductor; Fig. 2 is a front elevation of the tool when not in use; Fig. 3 is a longitudinal sectional view through the jaws of the tool, showing the same engaged with an electric conductor in the act of stripping the covering therefrom; and, Fig. 4 is a vertical sectional view on line 4—4 of Fig. 2.

In the drawing, the numerals 1 and 2 designate the pivoted members of the tool which are connected by means of the pivot pin 3. Coextensive handles 4 and 5 are provided upon the members 1 and 2, and coacting, inbent jaws 6 and 7 respectively are provided upon the members 1 and 2 oppositely with respect to their handles.

Each jaw of the tool is broadened transversely and the lower jaw 7 has its front and rear faces inclined so as to converge toward the flat upper face 8 of this jaw. The jaw 6, however, has its front and rear faces constructed tapering to such a degree that a sharp cutting edge 9 is formed for engagement with the upper face or anvil 8 of the jaw 7. The jaw 7 is provided in its anvil with a plurality of transversely spaced notches 10 which are graduated in size so as to be accommodated to a number of conductors. The edges of these notches are sharpened by beveling as at 11, and the jaw 6 is provided in its lower edge with a corresponding number of notches 12 which are adapted to register with the respective notches of the lower jaw and have their edges sharpened also.

Each set of registering notches of the jaws of the tool is adapted to receive an electric conductor of given diameter, but the edges of the notches are adapted to cut through the insulation alone as the jaws are brought together by proper manipulation of the handles of the tool, the anvil 8 being adapted for engagement with the sharp edge 9 of the jaw 6 to limit the movement of the said jaw and thus prevent the conductor from becoming severed when the tool is applied to the conductor for the purpose of stripping the insulation from one of its terminals. When the tool has been applied in this manner, the stripping operation may be performed by holding the conductor firmly with one hand and then drawing the tool outwardly from the conductor end with the hand grasping the same. This stripping operation may be facilitated by using the tool to split the insulating covering longitudinally prior to the act of stripping the desired portion thereof from the conductor end. This splitting may be accomplished readily by placing the end of the conductor upon the anvil 8 so as to extend transversely with respect to the tool, whereupon the cutting edge 9 of the upper jaw may be made to split the covering of the conductor longitudinally to the desired extent. As a result of this splitting, the stripping operation may be performed with greater ease.

In order that the tool may be used in several other capacities whereby it may be rendered particularly useful to electricians, linemen, and the like, the pivoted members 1 and 2 are provided adjacent to the jaws 6 and 7 with auxiliary wire-cutting jaws 13, whose cutting edges extend longitudinally and are movable past each other in the usual manner. The pivoted members are also provided on the opposite side of their pivot with respect to the wire-cutting jaws,

with wrench jaws 14 whose coacting edges are curved longitudinally and serrated as at 15. The handle 4 of the pivoted member 1 is terminally sharpened as at 16 so that it may be used as the engaging end of a screw driver, whereas the handle 5 of the pivoted member 2 is broadened, sharpened, and bifurcated as at 17 to provide a nail-pulling claw.

What is claimed is:

1. A pivoted member tool of the class described having operating handles and a pair of coacting jaws, the said jaws being transversely broadened and one of them having its inner edge flattened to provide an anvil, the inner edge of the opposite jaw being sharpened and adapted for engagement with the said anvil medially thereof, the said jaws being provided in their meeting edges with registering notches having their edges sharpened.

2. A pivoted member tool of the class described having operating handles and a pair of coacting jaws, the said jaws being transversely broadened and one of them having its inner edge flattened to provide an anvil, the inner edge of the opposite jaw being sharpened and adapted for engagement with the said anvil, the meeting edges of said jaws being provided with transversely spaced sets of registering notches of graduated sizes.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH H. COURTNEY.

Witnesses:
OSCAR REDEMANN,
J. R. FOSS.