

H. S. WAITE.
TOOL.
APPLICATION FILED FEB. 24, 1912.

Patented May 20, 1913.

1,062,310.

Fig. 1.

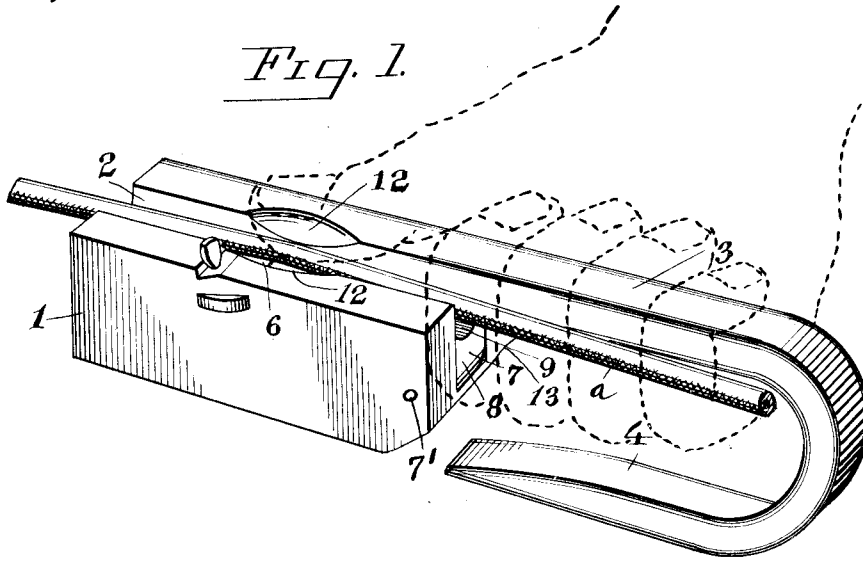


Fig. 2.

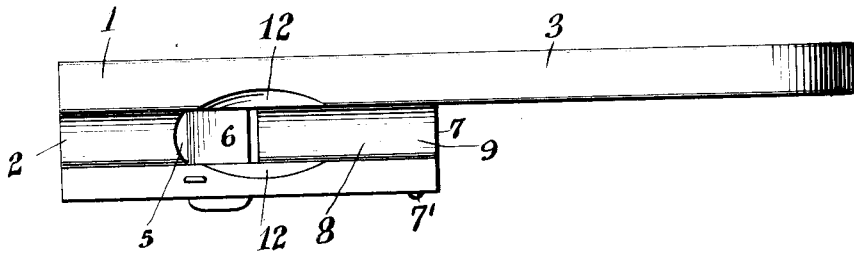
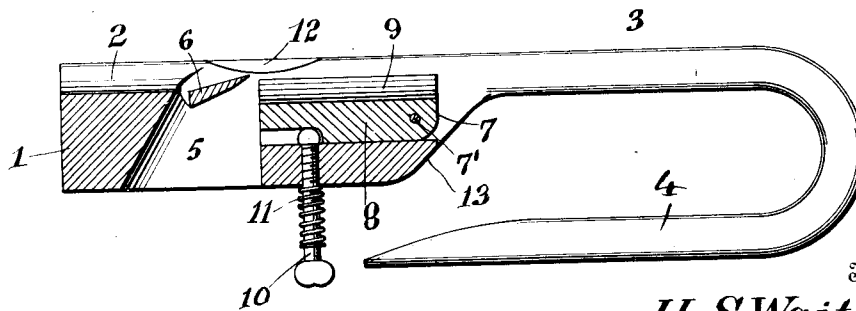


Fig. 3.



Inventor

H. S. Waite

Witnesses

M. F. Gannett
John J. McCarthy

By Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE.

HARRY S. WAITE, OF YUCCA, ARIZONA.

TOOL.

1,062,810.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARRY S. WAITE, a citizen of the United States of America, residing at Yucca, in the county of Mohave and State of Arizona, have invented new and useful Improvements in Tools, of which the following is a specification.

The present invention relates to improvements in tools and comprehends a tool for removing insulation from electric current conducting wires and the like.

In carrying out the invention, it is my purpose to provide a tool of this character whereby insulation, or other material, may be removed from wires in a simple and easy manner.

Furthermore, I aim to provide a tool of this character which may be adjusted to wires of various sizes to facilitate the removal of insulation or other covering therefrom.

A further object of the invention is the provision of a tool of this character which may be conveniently carried by a lineman, or other party, and which shall be extremely simple in construction, cheap to manufacture, easy to manipulate and efficient and positive in operation.

A still further object of the invention is the provision of a tool of this type which shall embody, amongst other features, a wire engaging member formed with a wire receiving groove and provided with a cutting blade arranged transversely of the groove and, preferably, disposed at an angle thereto to facilitate the removal of the covering of the wire, in the use of the tool; and means associated with the wire engaging member and adjustable to adapt the tool to wires of various diameters or sizes.

With the above and other objects in view which shall appear as the description progresses, the invention consists in the construction, combination and arrangement of parts hereinafter set forth in and falling within the scope of the appended claims.

In the drawings forming a part of this specification and in which I have illustrated what I now consider to be the preferred embodiment of the invention; Figure 1 is a perspective view of a tool constructed in accordance with the present invention, the same being shown in the hand of an operator and applied to a wire. Fig. 2 is a top plan view of the tool, and Fig. 3 is a central longitudinal sectional view of the same.

Similar reference characters designate like parts throughout the several views.

Referring to the drawings in detail, the tool, in the present instance, embodies a wire engaging member 1 of substantially rectangular contour and formed upon one side and for a portion of its length with a wire receiving groove 2 designed to engage the wire in the use of the tool, as clearly illustrated in Fig. 1 of the drawings. A handle 3 is preferably formed integral with the tool, and as shown in the present instance terminates in a hook 4 so that the tool may be carried by a lineman in the belt of the latter. In advance of the groove 2, the body 1 is provided with an irregular opening 5, immediately above which and projecting within the surface of the groove, is mounted a cutting blade 6 inclined upwardly with respect to the wire receiving groove to facilitate the removal of the covering from the wire, in the operation of the tool, the "shavings" of the wire covering or insulation passing through the opening from which they are discharged.

To adjust the tool to wires of various sizes so that the depth of the cut may be regulated, the tool is provided with an adjusting member 7 which, in the present instance, is pivoted at 7' in the wire engaging member 1 at a point below and in advance of the wire receiving groove 2. The member 7 preferably consists of a block 8 formed with a longitudinal groove 9 designed to cooperate with the groove 2 when the tool is applied to the wire to effect the removal of the insulation or covering from the said wire. An adjusting screw 10 is conveniently located within the body 1 and is designed to engage the adjusting member 7 to swing the latter upon its pivot 7', in the manipulation of the screw, whereby the adjusting member will move toward or away from the cutting blade to enable more or less surface to be presented to the blade, that is the adjusting member is moved relatively to the cutting blade to accommodate wires of various sizes whereby mutilation of the wire in the removal of the insulation or covering therefrom, is eliminated.

The adjusting screw 10 may be provided with a spring 11 or other suitable means to prevent accidental turning or displacement of the screw. Immediately above the blade, the wire engaging member 1 is formed with thumb engaging grooves 12 to permit the

wire to be held in operative engagement with the cutting blade in the use of the tool, the forward part of the wire engaging member 1, at its connection with the handle 3, being curved as at 13 to provide a hand grip.

In use the handle 3 is gripped in the hand of an operator and the wire, denoted at *a*, disposed within the groove 2 of the wire engaging member 1, after which the screw 10 is operated to swing the adjusting member 7 upon its pivot, to adjust the tool to the size of the wire. The tool is held in one hand and the wire in the other and the thumb of the tool-holding hand brought into engagement with the thumb grooves 12 to facilitate the binding of the wire against the cutting blade 10, and subsequently the tool is drawn longitudinally of the wire to strip the insulation therefrom.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

Having thus described my invention, what I claim and desire to secure by Letters-Patent is:

1. A tool of the class described comprising a wire engaging member provided with a wire receiving groove, a cutting blade pro-

jecting within the surface of the groove and inclined upwardly with respect thereto, and an adjusting member comprising a block pivoted within said wire engaging member and provided with a groove designed to cooperate with the first-mentioned groove, said block being adjustable relatively to the blade whereby the depth of the cut may be regulated.

2. A tool of the class described comprising a wire engaging member provided with a wire receiving groove and having an opening formed therein below the groove, a cutting blade carried by said member and projecting within the surface of the groove above the said opening, a block pivoted within said wire engaging member and adjustable relatively to the blade whereby the depth of the cut may be regulated, and means for swinging said block.

3. A tool of the class described comprising a wire engaging member provided with a wire receiving groove and having an opening formed therein below the groove, a cutting blade carried by said member and projecting within the surface of the groove above the said opening, a block pivoted within said wire engaging member and adjustable relatively to the blade whereby the depth of the cut may be regulated, means for swinging said block, and a handle connected to said wire engaging member whereby the latter may be pulled along the length of wire to strip the same.

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

H. S. WAITE.

Witnesses:

H. E. BENEDICT,
A. G. BENEDICT.