April 23, 1946. C. S. VAUGHAN, JR 2,398,979

CABLE STRIPPING TOOL

Filed Feb. 14, 1945 2 Sheets-Sheet 1

Fig. 1.

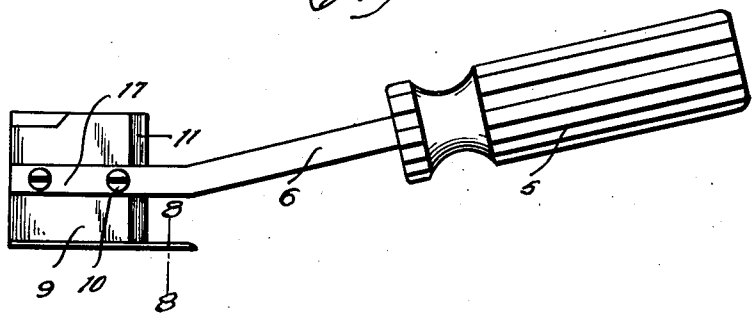


Fig. 2.

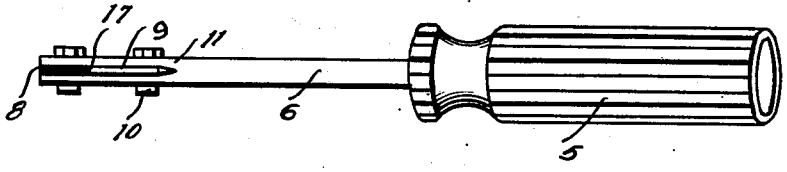


Fig. 3.

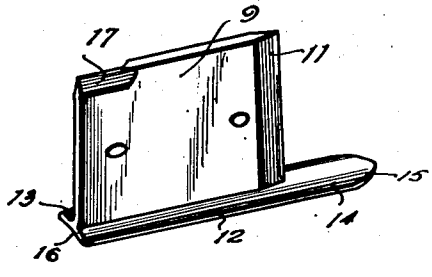


Fig. 8.



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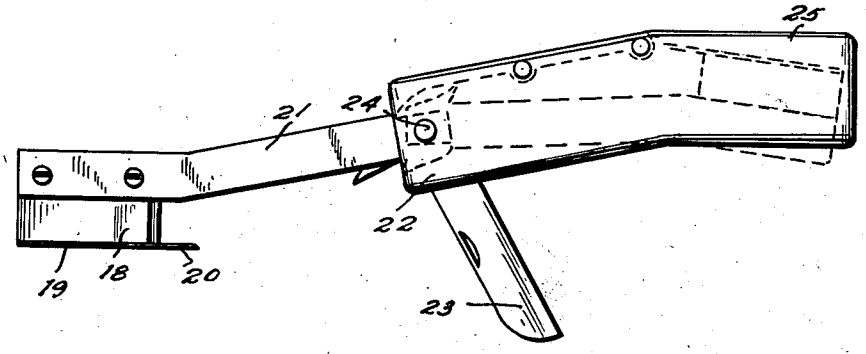
Attorneys

April 23, 1946. C. S. VAUGHAN, JR 2,398,979

CABLE STRIPPING TOOL

Filed Feb. 14, 1945 2 Sheets-Sheet 2

Fig. 4.



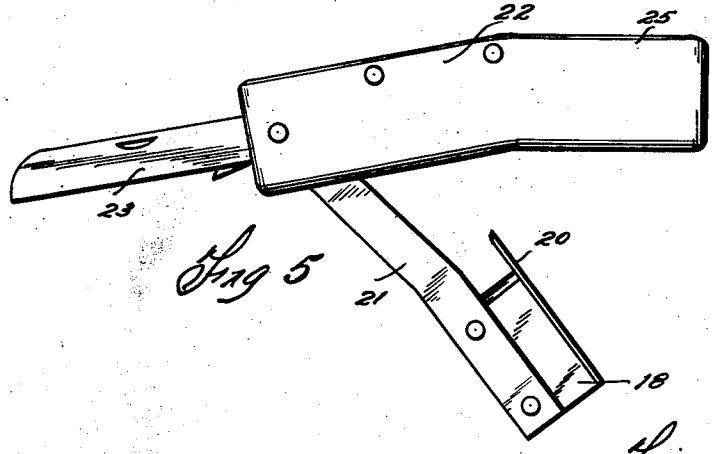


Fig 5

Fig. 6.

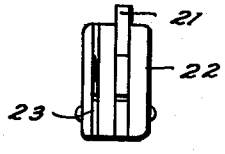
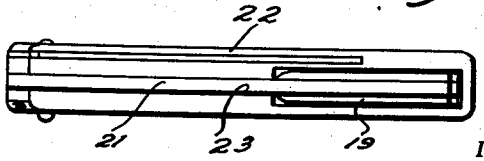


Fig. 7.



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UNITED STATES PATENT OFFICE

2,398,979

CABLE STRIPPING TOOL

Charles S. Vaughan, Jr., Tuscumbia, Ala.

Application February 14, 1945, Serial No. 577,765

1 Claim. (Cl. 30—91)

The present invention relates to new and useful improvements in cable-stripping tools, and more particularly to a cutting tool designed to facilitate the removal of non-metallic insulation covering from cables or the like.

An important object of the present invention is to provide a tool of this character by means of which the outer non-metallic covering of cables may be readily removed without danger of the wires encased therein.

A further important object of the invention is to provide a tool of this character which may be drawn along the wires under the covering thereof for the purpose of cutting or slitting the covering longitudinally in a manner to prevent injury or danger of cutting the fingers of the person operating the tool.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof and in which:

Figure 1 is a side elevational view illustrating one embodiment of the tool,

Figure 2 is a top plan view thereof,

Figure 3 is a perspective view of the cutting blade and guide shoe carried thereby,

Figure 4 is a side elevational view of a folding type of cutter,

Figure 5 is a similar view showing the cutter moved toward its folded position,

Figure 6 is a bottom plan view showing the cutter folded,

Figure 7 is an end elevational view, and

Figure 8 is a sectional view taken on a line 7—7 of Figure 1.

Referring now to the drawings in detail, and first with respect to the form of invention illustrated in Figures 1 to 3, inclusive, of the drawings, the numeral 5 designates a handle constructed of any suitable material, and from one end of which a rigid shank 6 projects, the outer end of the shank being inclined from the longitudinal center line thereof, as indicated at 7.

The shank 7 is bifurcated, as shown at 8, for receiving therein a blade 9 which projects outwardly from opposite sides of the shank. The blade is secured in position with the inclined end 7 of the shank positioned substantially midway of the opposite edges of the blade by means of screws or the like 10.

The inner edge of the blade 9 is beveled to form a cutting edge 11 and the lower edge of the blade is formed with laterally projecting flanges 12 and 13 projecting from opposite sides of the blade, the flanges extending inwardly beyond the cutting edge 11 to form a shoe 14.

The shoe 14 is rounded at its inner end, as indicated at 15, and is curved transversely to form a shallow channel 16 on its lower surface adapted to conform to the curvature of the wire or cable when the shoe is moved longitudinally along the surface thereof.

The outer, upper corner of the blade 9 is also formed with a cutting edge 17.

In the operation of the tool, the outer, non-metallic sheathing or covering of the cable is split longitudinally by the cutting edge 17 for a short distance and then the shoe 14 is inserted in the opening thus formed in the sheathing or covering and the shoe pulled under the sheathing or covering so that the cutting edge 11 will then cut the sheathing or covering longitudinally.

In the form of invention illustrated in Figures 4 to 7, inclusive, the blade 18 is formed at its lower edge with the flanges 19 and shoe 20 at the inner end thereof, while the upper edge of the blade is secured to an arm 21 pivoted in one end of a handle 22.

The handle 22 is constructed similar to the handle of a jack knife having a longitudinally extending slotted opening 23 in one edge thereof, and into and out of which the arm 21 and blade 18 is movable from the position shown by the full lines in Figure 4 of the drawings to the position shown by the dotted line, whereby the blade and shoe 20 are protected while the device is not in use.

The handle 22 may also be provided with one or more knife blades 23 pivoted on the pin 24 which also serves as a pivot for the arm 21.

The rear end of the handle may be inclined, as indicated at 25, to correspond to the inclined outer end of the arm 21 on which the blade 18 is attached.

Accordingly, in either form of the invention when the shoe of the stripper is inserted under the sheathing or covering of the cable, the handle will extend in an upwardly inclined position.

It will be apparent from the foregoing that the shoe carried at the inner end of the blade will travel in advance of the cutting edge of the blade during the stripping action so as to protect the wires of the cable from contact with the cutting edge of the blade.

In view of the foregoing description taken in conjunction with the accompanying drawings, it is believed that a clear understanding of the construction, operation and advantages of a tool of this character will be quite apparent to those

skilled in the art. A more detailed description thereof is accordingly deemed unnecessary.

It is to be understood, however, that even though I have herein shown and described a preferred embodiment of my invention, the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described, and the scope of the appended claim.

Having thus described the invention, what I claim is:

A cable-stripping tool comprising a blade having a vertical inner cutting edge, a flange on the lower edge of the blade projecting laterally at each side of the blade, a shoe on the inner end of the flange adapted for traveling under cable sheathing to be cut, said flange and shoe being transversely curved to conform to the wire enclosed in the sheathing, and means attached to the blade for pulling the blade longitudinally of the cable.

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