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T. EDWARDS

2,235,575

CABLE STRIPPING TOOL

Filed Jan. 8, 1940

Fig. 1.

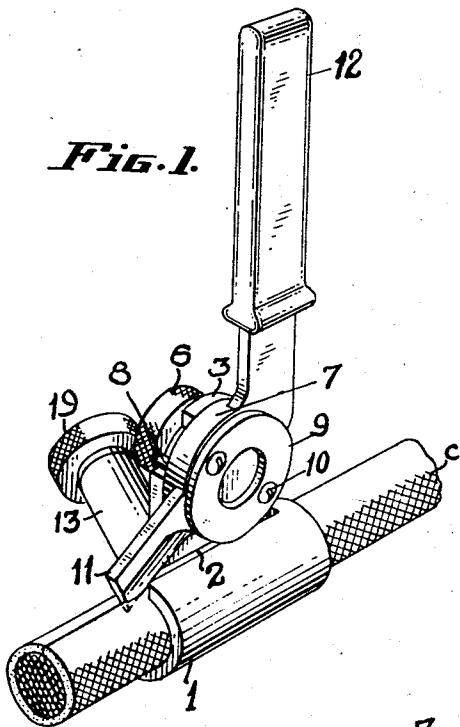


Fig. 2.

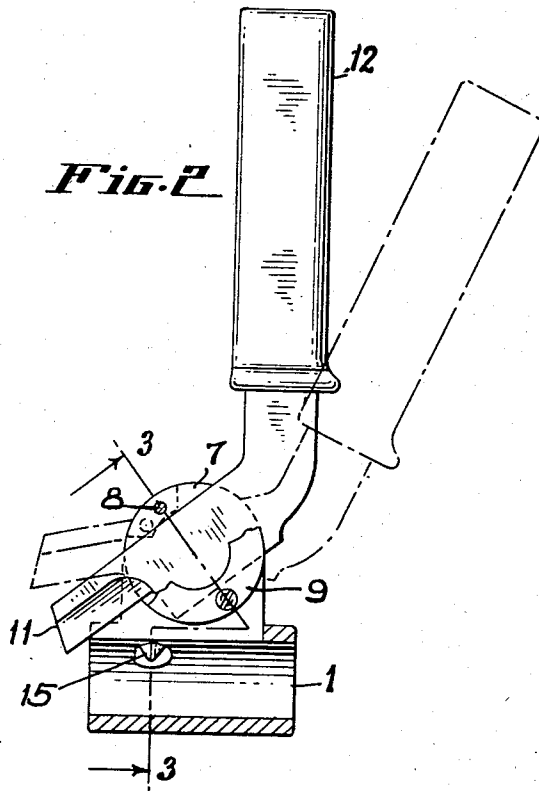


Fig. 3.

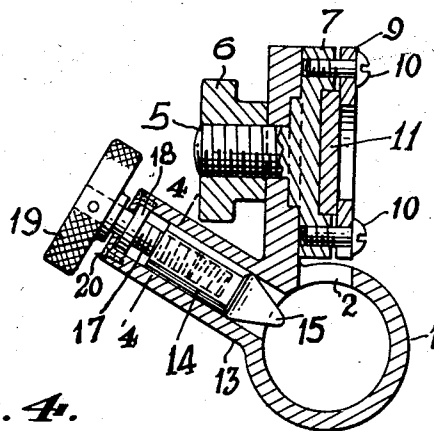
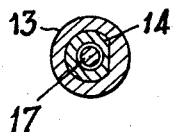
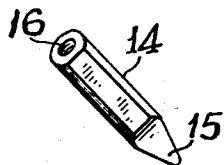
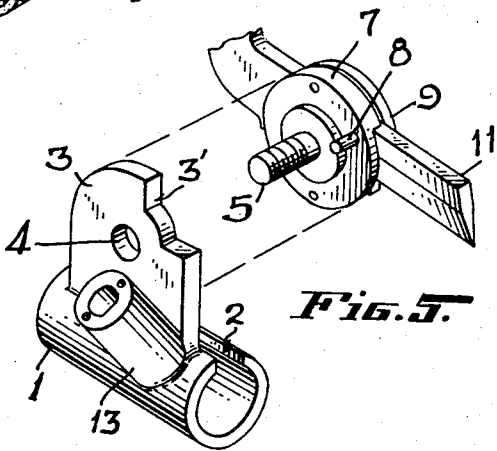


Fig. 4.

Fig. 5.



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CABLE STRIPPING TOOL

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4 Claims. (Cl. 30—31)

This invention relates to improvements in cable stripping tools, and more particularly to a cutting tool designed to facilitate the removal of sheathing from cables or the like.

5 An object of my invention is to provide an improved tool by means of which the outer covering of cables may be readily removed without damage to the various individual wires thereof.

10 Another object of my invention is to provide an improved tool of the kind characterized, having means for circumferentially cutting the sheathing of cables and for also longitudinally slitting the same.

15 Other and further objects of my invention will be pointed out hereinafter or will be indicated in the appended claims or will be obvious to one skilled in the art upon an understanding of the present disclosure. For the purpose of this application I have elected to show herein 20 certain forms and details of cable stripping tools representative of my invention; it is to be understood, however, that the embodiment of my invention herein shown and described is for the purpose of illustration only, and that therefore 25 it is not to be regarded as exhaustive of the variations of the invention, nor is it to be given an interpretation such as might have the effect of limiting the claims, short of the true and most comprehensive scope of the invention in the art.

In the accompanying drawing:

Fig. 1 is a perspective view of a cable stripping tool embodying my invention;

35 Fig. 2 is a vertical longitudinal section of the same, showing by the dotted lines the position of one of the cutting elements when in a disengaged position with respect to the cable;

40 Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2;

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 3;

45 Fig. 5 is a perspective view showing certain parts of the device in disassembled positions; and

Fig. 6 is a perspective view of the other of the cutting elements.

Referring to the drawing, the numeral 1 designates a cylindrical sleeve having a longitudinally disposed slot 2 at its upper side which is preferably open at one of its ends but closed at its other. Extending upwardly from the cylindrical sleeve 1 and positioned adjacent the slot 2 is a flange 3 having a central opening 4 through 50 which the threaded end of a bolt 5 loosely ex-

tends. The bolt is engaged by a nut 6 which is adapted to adjustably maintain the bolt in a fixed position on the flange 3. Secured to one end of the bolt 5 is a circular disc 7 having a pin 8 projecting therefrom which extends into 5 a notch or slot 3' in the flange 3. The movement of the disc 7 about its axis is restricted by the engagement of the pin 8 with the flange 3 at the ends of the notch or slot 3'. Positioned in a groove in the side of the disc 7 and clamped 10 securely thereon by means of a plate 9 and screws 10 is a knife blade 11 which is adapted to project into the cylindrical sleeve 1 through the slot 2. A handle 12 secured to the knife blade 11 serves to pivotally actuate the latter into 15 and out of engagement with a cable C slidably mounting the sleeve 1. The handle 12 is also adapted to pull the device along the cable to cause the knife blade to perform the longitudinal 20 slitting operation with respect to the sheathing of the said cable, and it also permits the rotation of the sleeve to cause the circumferential cutting of the sheathing as will be presently described.

25 Extending outwardly from the side of the sleeve 1 near the flange 3 is a tubular boss 13 having its central opening in direct communication with the interior of the said sleeve. Slidably but non-rotatably positioned in the boss 13 30 is an elongated block 14 having a knife blade 15 formed at its inner end and a threaded central opening 16 provided in its outer end. Extending into the threaded opening 16 in the block and operatively engaging therewith is a screw 35 17 having a collar 18 and a finger operating piece 19 secured thereto. The screw 17 is normally maintained in a non-retractable position with respect to the boss 13 by a ring 20 which is 40 secured as by screws to the end of the said boss. The ring, being in engagement with the collar 18, prevents the screw 17 from moving outwardly or inwardly as it is rotated by means of the finger piece 19. The turning of the finger piece 45 19 in a certain direction causes the block 14 to be actuated inwardly to bring the knife blade 15 into cutting engagement with the sheathing of the cable C. The rotation of sleeve 1 by means of the handle 2 will thereupon move the knife blade 15 in a circular direction to effect the cir- 50 cumferential cutting of the sheathing of the cable.

In normal operation the sheathing of the cable is first circumferentially cut by the knife blade 15, after which the latter is retracted by the 55

manipulation of the finger piece 19. The knife blade 11 is then brought into proper cutting engagement with the cable and is normally held in such a position by tightening the nut 6 on the bolt 5 or by manually holding the handle in a suitable position with respect to the cable. The subsequent pulling of the handle 12 in a direction along the length of the cable causes the longitudinal slitting of the sheathing.

10 Having described my invention what I claim is:

1. In a cable stripping tool, a sleeve adapted to be slidably mounted on a cable which is to be stripped of its sheathing, a knife blade adjustably mounted on the sleeve, handle means secured to the knife blade for moving the said knife blade to a position engaging with the sheathing of the cable or to a non-engaging position with respect to said cable, the said handle means secured to the knife blade being adapted for use in drawing the sleeve and knife blade along the cable, whereby the knife blade may be actuated to slit the cable longitudinally.

2. In a cable stripping tool, a sleeve adapted to be slidably mounted on a cable which is to be stripped of its sheathing, a knife blade pivotally mounted on the sleeve and positioned to be brought into cutting engagement with the sheathing of the cable, and a handle secured to the knife blade for moving the knife blade into and out of cutting engagement with the sheathing of the cable and for moving the sleeve and knife blade longitudinally along the cable,

whereby the cable sheathing may be slit lengthwise.

3. In a cable stripping tool comprising a sleeve adapted to be slidably mounted on a cable which is to be stripped of its sheathing, a knife blade pivotally mounted on the sleeve and positioned to be brought into and out of cutting engagement with the sheathing on the cable, a handle secured to the knife blade for moving the blade into and out of cutting engagement with the sheathing of the cable and for moving the sleeve and knife blade longitudinally along the cable whereby the sheathing may be slit lengthwise, and means carried by the sleeve for confining the pivotal movement of the knife blade within certain limits, whereby the knife blade will not be permitted to penetrate the cable beyond a certain depth.

4. A cable stripping tool comprising a slotted sleeve adapted to be slidably mounted on a cable which is to be stripped of its sheathing, an outwardly projecting flange secured to the sleeve, a knife blade pivotally secured to the flange and adapted to project through the slot of the sleeve and be brought into cutting engagement with the cable's sheathing, and a handle secured to the knife blade for moving the blade into and out of cutting engagement with the sheathing of the cable and for moving the knife blade and the sleeve longitudinally along the cable, whereby the cable sheathing may be slit lengthwise.

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