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SHEATH CUTTER

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Fig. 1.

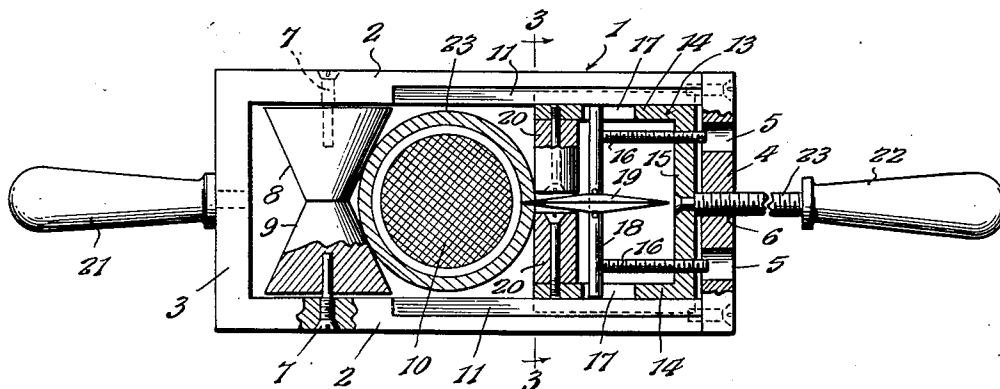


Fig. 2.

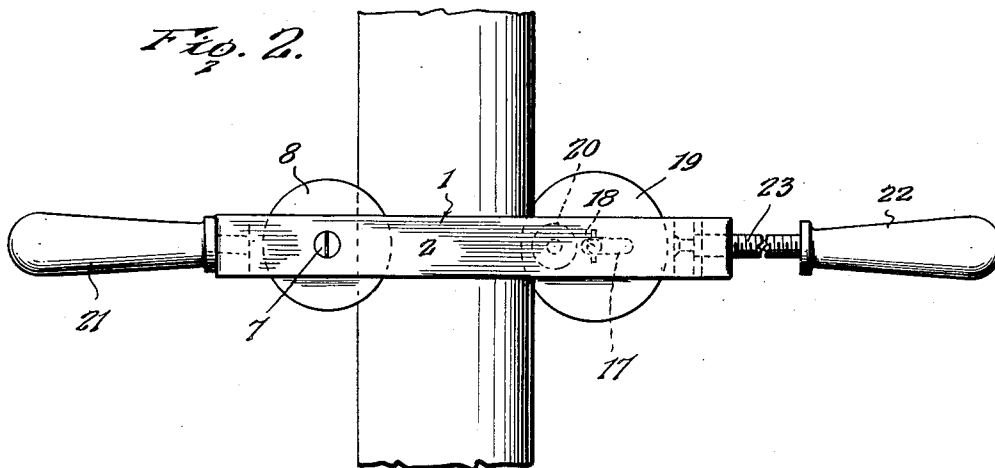
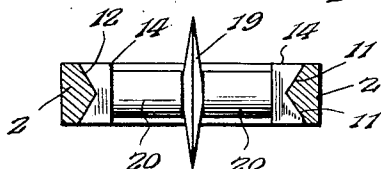


Fig. 3.



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SHEATH CUTTER

Application filed September 3, 1929. Serial No. 390,163.

The present invention is directed to improvements in sheath cutters.

The primary object of the invention is to provide a device of this character primarily designed for cutting the metallic sheaths from cables in order that the ends of cables may be stripped for splicing or other purposes.

Another object of the invention is to provide a device of this kind so constructed that the cutting disc thereof can be easily and quickly adjusted to cut sheaths without marring the cable or insulation thereof.

Another object of the invention is to provide a device of this character constructed in such manner that it can be moved longitudinally of a cable in order that the sheath thereof will be cut so that it can be conveniently removed.

Another object of the invention is to provide a device of this character which is simple in construction, efficient in operation, durable, and one which can be manufactured at a small cost.

With these and other objects in view, this invention resides in the novel features of construction, formation, combination and arrangement of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawing, in which:

Figure 1 is an elevational view of an embodiment of the invention applied, partly in section and partly broken away.

Figure 2 is a top plan view thereof.

Figure 3 is a sectional view on the line 3—3 of Figure 1.

Referring to the drawing, 1 designates a frame which is formed from metal and consists of side bars 2, said side bars being integrally connected at one of their ends by an end bar 3, the end bar 4 being detachably secured to the side bars. The end bar 4 is provided with spaced openings 5 and an intermediate threaded opening 6, the purpose of which will be later explained. The side bars 2 have mounted therein trunnions 7 which support the roller 8, said roller having an annular groove 9 formed therein for seating the cable 10. The side bars 2 are provided with beveled faces 11 for slidably engaging

the beveled grooves 12 of the side bars of the sliding frame 13. The frame 13 consists of the side bars 14 and an end bar 15, said end bar having threaded therein adjusting screws 16, said screws being alined with the openings 5, as clearly shown in Figure 1 of the drawing.

The side bars 14 are provided with diametrically opposed slots 17 for slidably receiving the ends of the shaft 18, said shaft having loosely journaled thereon a cutting disc 19. A pair of rollers 20 are rotatably supported by the side bars 14 of the frame and have their inner ends spaced to accommodate the cutting disc 19.

The end bar 3 has secured thereto a handle 21, there being a handle 22 having a threaded shank 23 engaged in the opening 6 of the end bar 4, the inner end of said shank being swivelly engaged with the end bar 15 of the frame 13.

Obviously, the frame 13 may be adjusted upon rotating the handle 22 so that sheaths of cables varying in diameter may be cut. As shown in Figure 1, the cutting disc 19 has been forced inwardly upon adjusting the handle 22 so that the edge thereof penetrates the lead sheathing of the cable 10, at which time the cable is engaged between the rollers 9 and 20. Upon grasping the handles 21 and 22, the frame 1 may be drawn longitudinally of the cable, which movement will cause the cutting disc to cut the sheath so that it can be readily removed. Owing to the presence of the screws 16, the cutting depth of the cutting disc can be conveniently regulated so that it will cut the sheath without damaging the insulation of the cable.

The shaft 18 may be adjusted upon rotating the screws 16 with a screw driver passable through the openings 5. Since the inner ends of the adjusting screws engage against the shaft 18, this can be readily accomplished.

Since the cutting disc 19 is loosely journaled on the shaft 18 and the cable will engage the rollers 9 and 20, the frame may be drawn along the cable with comparative ease.

The invention results in the provision of a tool embodying relatively adjustable main

and supplemental frames provided with cable engaging means disposed for the passage of the cable therebetween. A cutter mounted on the supplemental frame is independently adjustable to the thickness of the cable sheath or covering.

From the foregoing, it is thought that the operation and many advantages of the herein described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

What is claimed is:

1. A device for cutting cable sheaths comprising a main frame, a supplemental frame slidably adjustable therein, rollers carried by the supplemental frame, a shaft adjustably supported by the supplemental frame, a cutting disc loosely journaled on the shaft and movable between the ends of the rollers, a roller journaled in the main frame and co-acting with the rollers of the supplemental frame for seating a cable, whereby the sheath thereof will be engaged by the cutting disc.

2. A tool for cutting cable sheaths comprising relatively adjustable main and supplemental frames, transversely spaced cable engaging means carried by the supplemental frame, a cutter disposed between said cable engaging means, and means for independently adjusting the cutter to project its edge a greater or less distance beyond the said cable engaging means.

3. A tool for cutting cable sheaths comprising relatively adjustable main and supplemental frames, transversely spaced cable engaging means carried by the supplemental frame, a cutter disposed between said cable engaging means, means for independently adjusting the cutter to project its edge a greater or less distance beyond the said cable engaging means, and handles at opposite ends of the main frame, one of the handles swivelly engaging the supplemental frame and having screw thread engagement with the main frame.

In testimony whereof I affix my signature.
HARRY E. KORAB. [L. s.]

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