

Sept. 21, 1943.

F. G. WILSON, SR
ELECTRIC CABLE CUTTER

2,329,805

Filed Dec. 30, 1942

2 Sheets-Sheet 1

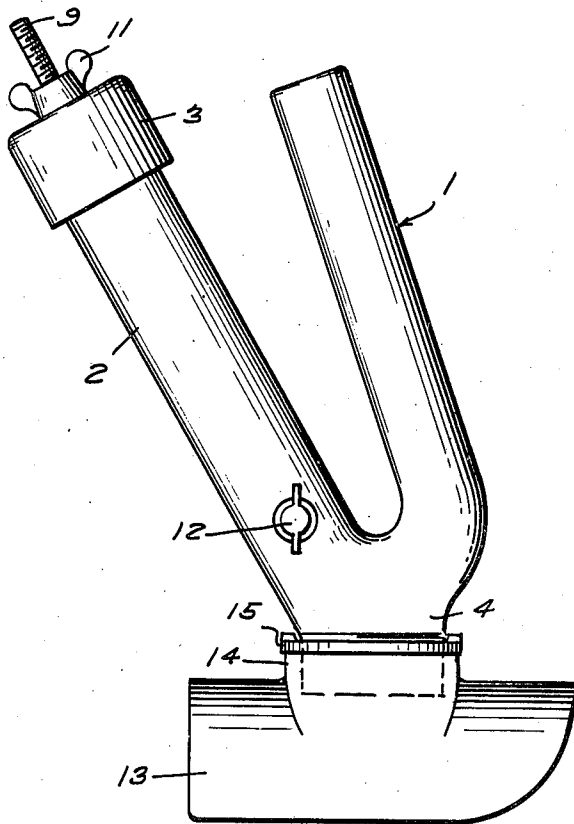


Fig. 1.

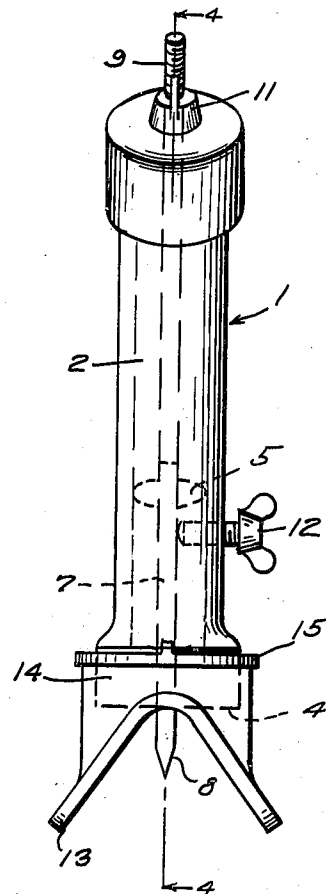


Fig. 2.

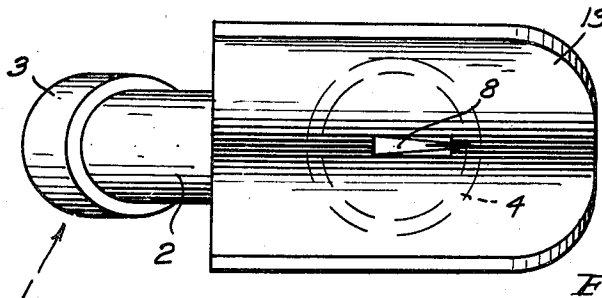


Fig. 3.

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2 Sheets-Sheet 2

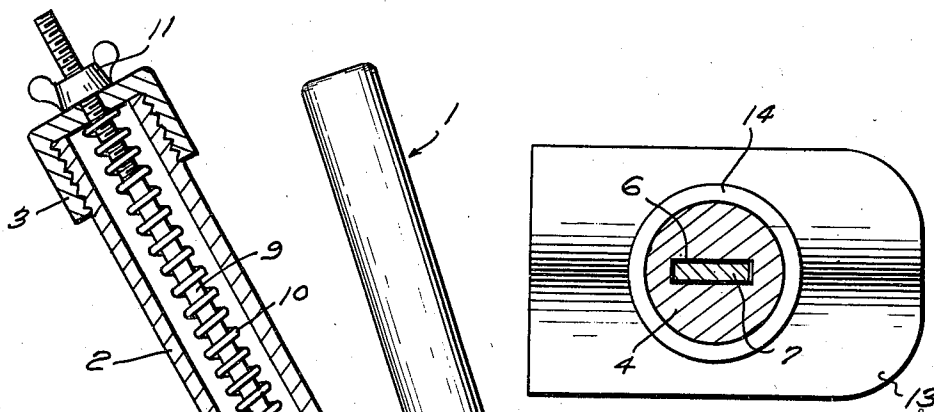


Fig. 5.

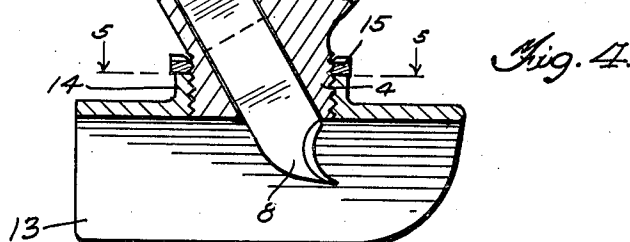


Fig. 4.

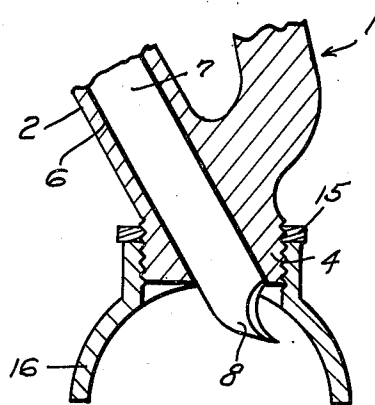


Fig. 6.

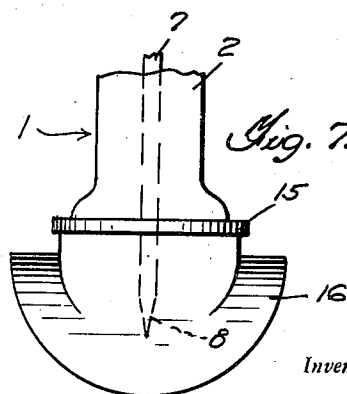


Fig. 7.

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UNITED STATES PATENT OFFICE

2,329,805

ELECTRIC CABLE CUTTER

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Application December 30, 1942, Serial No. 470,681

2 Claims. (Cl. 30—91)

The present invention relates to new and useful improvements in electric cable cutters and has for its primary object to provide, in a manner as hereinafter set forth, a tool of this character comprising an adjustable blade of novel construction whereby the insulation or other covering may be expeditiously cut without damaging the wire.

Other objects of the invention are to provide an electric cable cutter of the character described which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, safe and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in side elevation of an electric cable cutter constructed in accordance with the present invention.

Figure 2 is a view in rear elevation of the device.

Figure 3 is a bottom plan view.

Figure 4 is a view principally in vertical section, taken substantially on the line 4—4 of Figure 2.

Figure 5 is a view in horizontal section, taken substantially on the line 5—5 of Figure 4.

Figure 6 is a fragmentary view in vertical section through another form of the invention.

Figure 7 is a fragmentary view in front elevation of the modification.

Referring now to the drawings in detail, it will be seen that reference numeral 1 designates a substantially U-shaped, rearwardly inclined metallic handle, said handle including a tubular rear leg 2. Threaded on the upper end portion of the tubular leg 2 is a removable cap 3. A vertical threaded shank 4 of circular cross section depends from the bight portion of the handle 1.

The leg 2 of the handle 1 includes a substantially solid lower portion 5 having formed therein a rectangular bore or passage 6 which extends downwardly at an inclination through the shank 4. The passage 6 accommodates a slidably adjustable bar 7 of suitable metal. At its lower end, the bar 7 terminates in a knife 8.

Rising from the upper end of the bar 7 is a rod 9 which passes slidably through the cap 3. A coil spring 10 on the rod 9 has one end en-

gaged beneath the cap 3 and its other end engages with the upper end of the bar 7 for yieldingly urging the knife 8 downwardly. A thumb nut 11 is threaded on the upper end portion of the rod 9 and engaged with the cap 3 for raising the knife 3 against the tension of the coil spring 10. A thumb screw 12 is mounted in the lower portion of the leg 2 for frictionally clamping the bar 7 with the knife 8 thereon in adjusted position.

Threadedly mounted on the shank 4 is a combined guard and guide 13 of substantially V-shaped cross section. It will be observed that the knife 8 projects downwardly and forwardly in the guide 13. In the embodiment shown, the guide 13 comprises an upstanding neck 14 which is threaded on the shank 4. A lock nut 15 on the shank 4 is engageable with the neck 14 for securing the removable guide 13 in position.

It is thought that the operation of the device will be readily apparent from a consideration of the foregoing. Briefly, the knife 8 is adjusted in the guide 13 to cut at the desired depth through the medium of the thumb nut 11. Of course, the thumb screw 12 is loosened to permit adjustment of the blade 8, after which said thumb screw is again tightened on the bar 7. The guide 13 is then engaged with and drawn longitudinally on the electric cable in a manner to cause the knife 8 to penetrate and cut the insulation or other covering thereon. In this manner any desired length of the insulation or other covering may be expeditiously split for removal from the wire without damaging said wire. In addition to functioning as a guide, the member 13 also serves as a shield or guard for the knife 8. The construction and arrangement is such that the guide 13 may be expeditiously removed from the handle 1. Thus, various shapes and sizes of guides may be conveniently mounted for use on the handle 1.

The embodiment illustrated in Figures 6 and 7 of the drawings is particularly adapted to cut the insulation or other covering of the cable circumferentially. Toward this end, a guide 16 of substantially semi-circular cross section is mounted transversely on the handle 1 in lieu of the longitudinal guide 13. The guide 16 is mounted longitudinally of the cable whereby the knife 8 engages said cable transversely. The tool is then swung around the cable in a manner to cause the knife 8 to cut the insulation or other covering of said cable circumferentially. In other respects this form of the device is substantially similar structurally to the embodiment illus-

trated in Figures 1 to 5, inclusive, of the drawings.

It is believed that the many advantages of an electric cable cutter constructed in accordance with the present invention will be readily understood and although preferred embodiments of the device are as illustrated and described, it is to be understood that further modifications and changes in the details of construction may be resorted to which will fall within the scope of the invention as claimed.

Having described the invention, what is claimed as new is:

1. An electric cable cutter comprising a substantially U-shaped handle, said handle including a tubular leg, a guide, for the reception of a cable, mounted on the bight portion of the handle, a bar mounted for sliding adjustment in the tubular leg and projecting downwardly into the guide, a knife on the lower end of said bar, a cap on the tubular leg, a rod on the bar extending slidably through said cap, a coil spring on the rod engaged with the bar for yieldingly urging the knife downwardly in the guide, a nut threaded on the rod and engaged with the cap for adjusting the knife against the tension of the coil spring, means for releasably securing the

knife in adjusted position, and means for securing the guide in position on the handle.

2. An electric cable cutter of the character described comprising a substantially U-shaped metallic handle including a tubular leg, a cap threaded on one end portion of said tubular leg, a threaded shank of circular cross section integral with the bight portion of the handle, a substantially channel-shaped guide, said guide including a neck threaded on the shank for removably mounting the guide on the handle, a lock nut engaged with the neck for releasably securing the guide in position on the handle, a metallic bar mounted for sliding adjustment in the tubular leg and extending through the shank into the guide, a knife on the bar in said guide, a rod on one end of the bar extending slidably through the cap, a coil spring on the rod engaged with the bar for adjusting the knife in one direction, a thumb nut threaded on the rod and engaged with the cap for adjusting the knife in the opposite direction, and a thumb screw threadedly mounted in the tubular leg and engageable with the bar for releasably securing the knife in adjusted position.

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