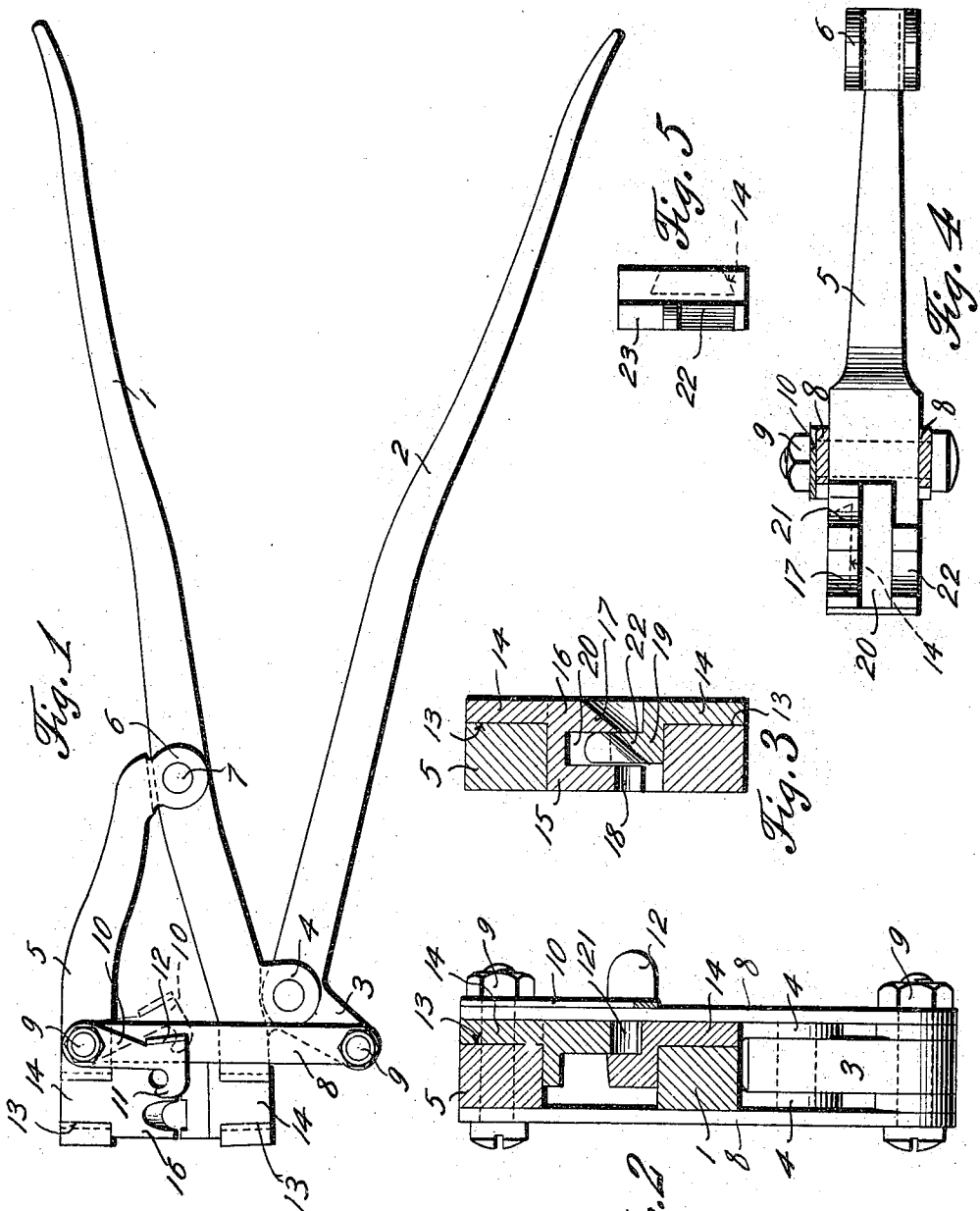


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WIRE CUTTER.

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WIRE-CUTTER.

961,794.

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To all whom it may concern:

Be it known that I, WILLIAM PETERS, a subject of the King of England, residing at Congress, in the county of Yavapai and Territory of Arizona, have invented certain new and useful Improvements in Wire-Cutters, of which the following is a specification.

This invention relates to wire cutters and is designed particularly to combine within one implement a device for cutting galvanized wire rope and tempered steel wire. It also contemplates the provision of an attachment for said cutter which will prevent the tempered steel wire from bending when the same is cut, and which will make a straight smooth cut, eliminating the flattened extremity which has heretofore always been experienced in wire cutters of this type and character.

A still further object of this invention is to construct a cutter for galvanized wire rope which, when it operates upon the latter, will not disengage the various strands of which the rope is constructed.

With the above and other objects in view, this invention consists of the combination, construction, and arrangement of parts all as hereinafter more fully described, claimed and illustrated in the accompanying drawings, wherein:

Figure 1 is a side elevation of a wire cutter constructed in accordance with the present invention; Fig. 2 is a vertical section through the cutters adapted for cutting tempered steel wire. Fig. 3 is a similar section through the cutters adapted for use on galvanized wire rope. Fig. 4 is an inside plan view of one of the cutting elements; Fig. 5 is an inside plan view of the cooperating cutter adapted to reciprocate in a slot formed in the opposite cutter.

Reference being had to the drawings, the present invention comprises the handle portions 1 and 2, the lower handle portion 2 having an angular bend 3 at its forward terminal to which is pivoted the opposite handle portion 1 by the downwardly extending ears 4. A link 5 is pivoted to the arm 1 by the ears 6 spanning the same and secured thereto by the pin 7. This link 5 is connected to the terminal of the angular bend 3 of the arm 2 by the straps 8 disposed on either side of the handles 1 and 2 and secured to each by the bolts 9.

A dog 10 comprising a hook pivotally suspended from the bolt 9 is approximately rec-

tangular externally at its lower end, the inner curve of the hook being complementary of the semi-circular opening 21, said hook being provided with a finger piece 12, and provides a means whereby tempered steel wire may be prevented from being bent when operated upon by the cutters.

At the extremities of the link 5 and the arm 2 are the dove-tail channels 13 in which are received the shanks 14 of the cutters. This construction makes it possible to remove the cutters whenever it is desired and sharpen or replace the same.

The cutter retained in the channel 13 of the link 5 comprises the shank 14 having a pair of downwardly extending cutter arms 15 and 16 separated by the channel 20, the arm 16 being of full width while the arm 15 is one-half the width thereof. The arm 16 has formed therein adjacent to the channel of the link a pair of registering openings 17 and 18. The opening 17 slopes toward the shank 14 on the exterior of the cutter and is approximately semi-circular conforming with the formation of the opening 18. Directly to the rear of the openings 17 and 18, and on the single portion of the arm 16 is a semi-circular opening 21.

The cutter blade operating in the handle portion 2 is provided with an angular arm 19 which is adapted to reciprocate in the channel 20 between the arms 15 and 16 of the former cutter blade. This arm is provided adjacent to the openings 17 and 18 with the cutting edge 22, said cutting edge being so constructed that upon the reciprocation within the channel 20 it forms a continuation of the sloping surface of the opening 17. The portion 23 of the arm 19 adjacent to the semi-circular opening 21 is approximately rectangular and is adapted to form in combination with the semi-circular opening a pair of square cutting edges.

From the foregoing it will readily be seen that the forward cutters or openings 17 and 18 in combination with the cutting edge 22 forms a means of severing galvanized wire rope without in any way disengaging the individual strands thereof.

The semi-circular opening 21 cooperating with the rectangular cutting surface forms a means whereby tempered steel wire may be cut. The provision of the dog 10 provides a means whereby the wire may be supported and as a result prevents the same from being bent and damaged, thus improving the cut

and making the same approximately square with respect to the longitudinal axis of the wire.

5 Having thus described my invention, what is claimed as new is:

10 1. In a device of the class described, the combination with two pivotally connected handle sections, a link pivoted to one of said handle sections and connected to the other
15 by a plurality of oppositely disposed straps, a cutter carried by said link, a cutter cooperating therewith, carried by the handle section pivotally connected to the link, said cutters being adapted to sever both galva-
20 nized wire rope and tempered steel wire, and means whereby said tempered steel wire may be prevented from being bent, comprising a supporting dog pivoted to the link adjacent to said tempered steel wire cutter.

20 2. In a device of the class described, the combination with two pivotally connected handle sections, a link pivoted to one of said

handle sections and connected to the other by a plurality of oppositely disposed straps, a U-formed cutter carried by said link hav- 25
ing coinciding semi-circular openings therein and a single semi-circular opening, a single cutter carried on the arm pivotally connected to said link having a sloping cutting edge adapted to cooperate with said co- 30
inciding openings in the U-formed cutter, a rectangular cutting edge adapted to cooperate with said single opening, and a dog pivotally connected to said link having a recess formed therein adapted to support tempered 35
steel wire when the same is being cut and prevent it from being bent.

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

WILLIAM PETERS.

Witnesses:

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