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A. A. SCHWINDT

BOLT CUTTER

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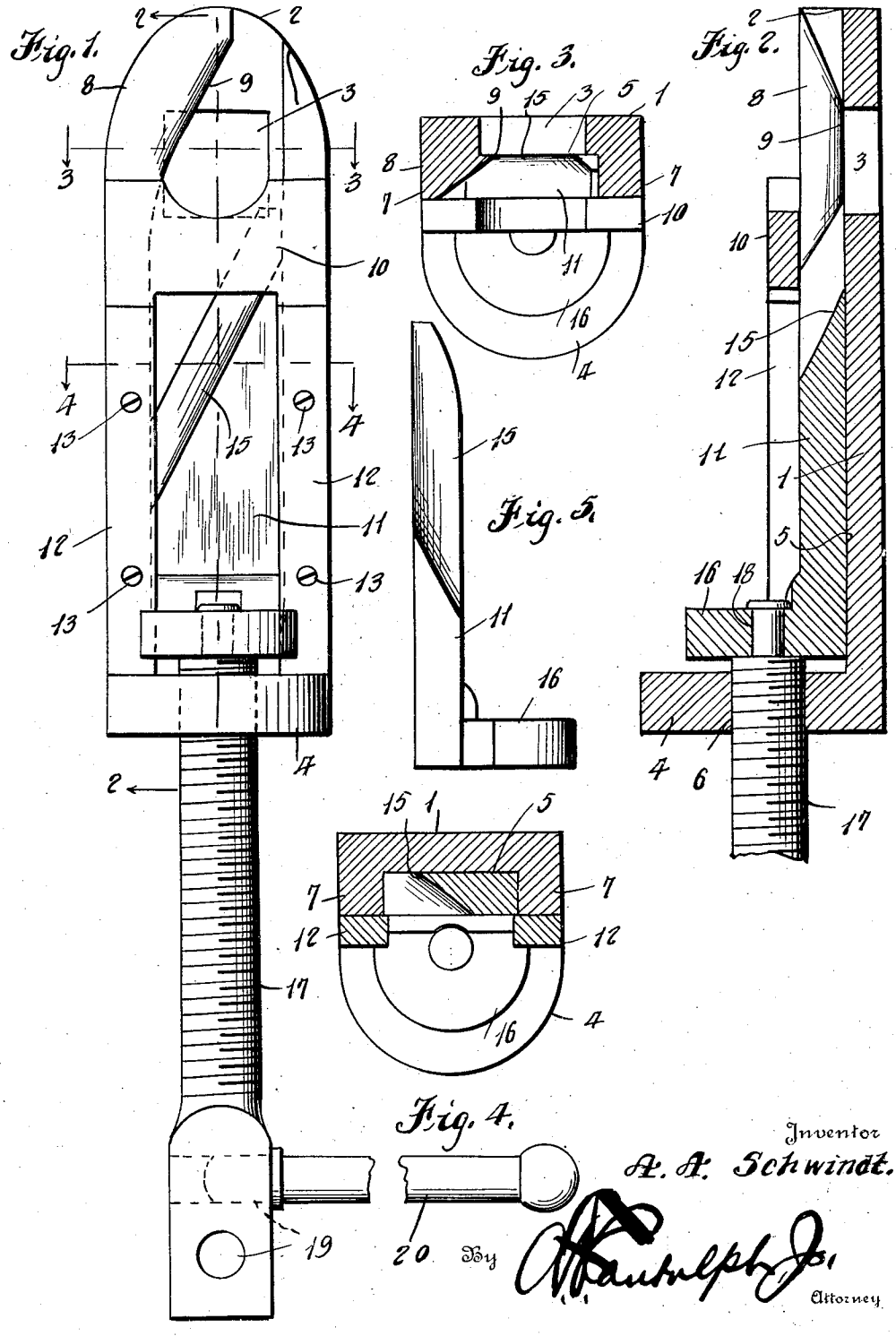

Inventor
A. A. Schwindt.
By
Attorney

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ANDREW A. SCHWINDT, OF DICKINSON, NORTH DAKOTA.

BOLT CUTTER.

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This invention relates to bolt cutters, and has for one of its objects to improve and simplify the general construction of devices of this character and to provide one that shall include a body carrying a relatively stationary and a relatively movable blade having diagonal cutting edges to permit the cutting of the bolt to be readily accomplished.

A further object of the invention is the provision of a bolt cutter wherein the relatively stationary blade shall be formed integrally with the body and wherein the body shall be provided with side guides formed integrally therewith and adapted to direct the relatively movable blade in its forward and rearward movement and with a transverse guide formed integrally with the side guides and adapted to cooperate with the body to prevent the bending of the cutting edge of the blade during the cutting of a bolt.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawing, wherein:

Figure 1 is an elevational view of a bolt cutter constructed in accordance with my invention,

Figure 2 is a longitudinal sectional view taken on the plane indicated by the line 2—2 of Figure 1,

Figure 3 is a transverse sectional view taken on the plane indicated by the line 3—3 of Figure 1,

Figure 4 is a similar view taken on the plane indicated by the line 4—4 of Figure 1, and

Figure 5 is a detail view in edge elevation of the relatively movable blade.

Corresponding and like parts are referred to in the following description, and designated in the several views of the accompanying drawing, by similar reference characters.

The bolt cutter comprises an elongated body 1 having a rounded end 2 and provided near said end with a bolt receiving opening 3. The body 1 is provided at its other end with a lug 4 which extends beyond and is arranged at right angles with respect to the side 5 of the body 1 and is provided with a screw threaded opening 6 having its axis arranged in a plane extending longitudinally and centrally through the body. Longitudinally extending ribs 7 are formed integrally with the body 1 and project beyond the side 5 thereof. The ribs 7 extend from the lug 4 to the curved end 2 of the body 1, and said lug is formed integrally with the body and ribs. That end of one of the ribs 7 which is located adjacent the end 2 of the body 1 is enlarged laterally in an inward direction to provide a relatively stationary blade 8 which is provided with a cutting edge 9 arranged diagonally of the body 1 and extending across a corner of the opening 3. A guide 10 extending transversely of the body 1 and formed integrally with the ribs 7, is located adjacent the opening 3 and spaced from the side 5 of the body. A relatively movable blade 11 is positioned on the body 1 between the ribs 7, and is slidably held in place by the guide 10 and retaining strips 12 which latter are secured to the ribs by screws 13 and extend inwardly beyond the ribs for contact with this blade. The relatively movable blade 11 is provided with a cutting edge 15 which extends diagonally of the body 1, and is also provided with an outstanding lug 16 to which a screw 17 is swivelly connected as at 18. The screw 17 has threaded engagement with the wall of the opening 6 and is provided with angularly related openings 19 for the reception of an end of the hand bar or lever 20.

In practice, when it is desired to use the cutter, the relatively movable blade 11 is drawn through the medium of the screw 17 away from the opening 3 and relatively stationary blade 8. After the bolt and cutter have been so relatively arranged as to cause the former to extend through the opening 3, the relatively movable blade 11 is forced in the direction of the relatively stationary blade 8 through the medium of the screw 17. As the cutting edges 9 and 15 of the blades are diagonally arranged, the bolt can be easily and quickly severed. The guide 10 contacts with the relatively movable blade 11, and due thereto the cutting edge 15 of the blade wil not move away from the body 1 during the use of the tool.

It should be understood that the drawing is merely illustrative and does not pretend to give exact proportions. Furthermore, the said drawing is illustrative of a preferred construction, it being my expectation that various changes and modifications may be made without departing from the spirit and scope of my invention.

What is claimed is:—

1. A tool of the character set forth, comprising a body provided with a bolt receiving opening, guide ribs carried by the body and of which one is formed to provide a relatively stationary blade, a guide carried by the ribs, a relatively movable blade mounted on the body between the ribs and guide, retaining strips for the relatively movable blade and connected to the ribs, and operating means for the relatively movable blade.

2. A tool of the character set forth, comprising a body provided with a bolt receiving opening and a lug having a threaded opening, ribs carried by the body and of which one is formed to provide a relatively stationary blade, a guide carried by the ribs, a relatively movable blade positioned on the body between the ribs and guide and provided with a lug, and a screw having threaded engagement with the first named lug and swivelly connected to the last named lug.

3. A bolt cutter comprising an elongated body provided with longitudinally extending guide ribs and provided at one end with a threaded lug and at the other with a bolt receiving opening, said opening being located between the ribs and one of the ribs having its end adjacent the opening enlarged laterally in an inward direction to provide a stationary blade having a cutting edge extending diagonally of the body and across a portion of the opening, a movable blade mounted on the body between the guide ribs and provided with a cutting edge extending diagonally of the body, and a screw having threaded engagement with the lug and connected to the movable blade.

In testimony whereof I affix my signature.

ANDREW A. SCHWINDT.