Feb. 14, 1933. C. C. HANSEN 1,897,514

BOLT CUTTER AND PUNCH

Filed Feb. 2, 1931

Fig. 1.

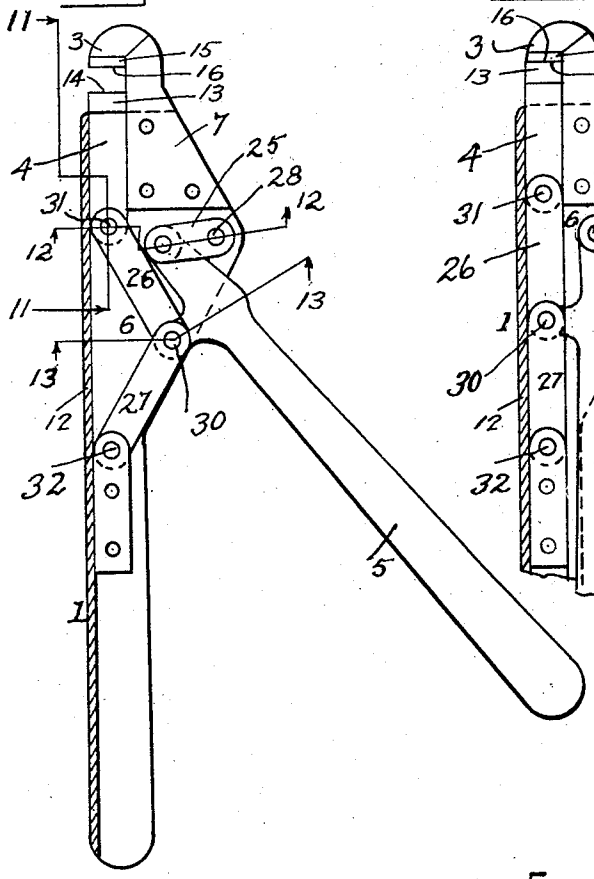


Fig. 2.

Fig. 3

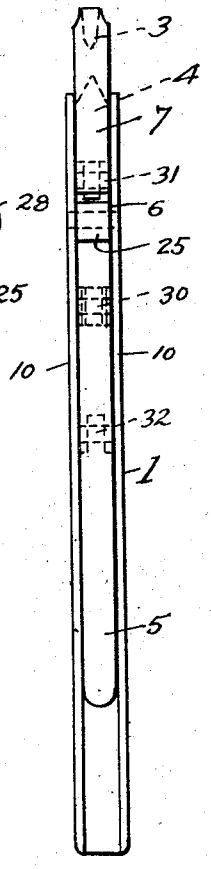


Fig. 5

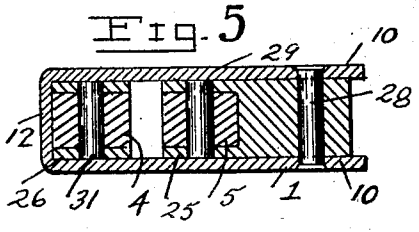


Fig. 4.

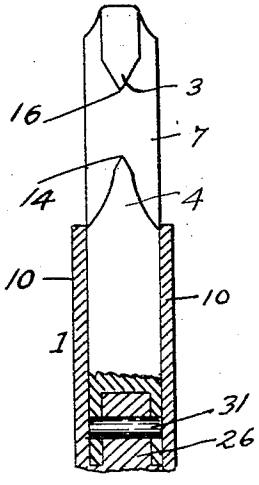
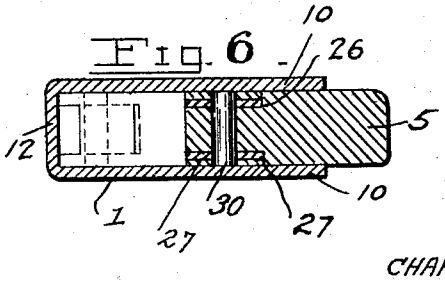


Fig. 6



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Patented Feb. 14, 1933

1,897,514

UNITED STATES PATENT OFFICE

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BOLT CUTTER AND PUNCH

Application filed February 2, 1931. Serial No. 512,884.

One of the objects of the invention is to provide an improved bolt cutter of great power by means of which bolts may be easily cut with little effort.

Another object is to provide a bolt cutter particularly useful for cutting conductor clamp bolts to disconnect conductors from battery terminals when the conductor clamps and their bolts have become corroded.

Another object is to provide a bolt cutter for cutting battery conductor clamp bolts and at the same time spreading apart the clamp members for more easily disconnecting the conductor clamps from the battery terminals.

Another object is to provide an improved hand punch of great power.

A further object is to provide an improved bolt cutter and punch of great power.

Other objects and advantages will appear hereinafter.

The invention is illustrated in the annexed drawing which forms a part of this specification and in which,

Fig. 1 is a longitudinal section of my invention with the cutter blades spread apart.

Fig. 2 is a fragmentary longitudinal section of the form of my invention with the cutter blades brought together.

Fig. 3 is an edge view of Fig. 1.

Fig. 4 is a fragmentary longitudinal section of Fig. 1 taken on line 11—11.

Fig. 5 is a cross section of Fig. 1 taken on line 12—12.

Fig. 6 is a cross section of Fig. 1 taken on line 13—13.

Corresponding parts are designated by the same reference characters in all the figures.

My invention comprises generally a frame 1, a handle 2, a fixed cutter blade 3, a slidable cutter blade 4, an operating lever 5 and means 6 connecting said lever and said slidable cutter blade, whereby said cutter blade is moved toward or away from said fixed blade, when said lever is swung inwardly or outwardly with relation to said handle.

The connecting means 6 between the lever and the slide blade 4 comprises links 25, 26 and 27. One end of the link 25 is pivoted to the frame 1 between the side walls thereof at the rear of head block 7, by a pivot 28, while the inner end of the lever 5 is pivoted at 29 to the other end of said link 25. One end of each of the links 26 and 27 is pivoted at 30 to the lever 5 near the inner pivoted end of the lever, the other end of the link 26 being pivoted at 31 to the inner end of the slide blade 4, and the other end of link 27 being pivoted at 32 to the frame 1.

In cutting bolts, the lever 5 is first swung out from the handle 2 to withdraw the cutter blade edge 14 away from the cutter blade edge 16 through the medium of the links 18, 19 and 20, and the blades are applied to the bolt 35 which is inserted between said blade edges Figs. 5 and 6, the handle 2 and lever 5 being gripped in the hand with little effort, the lever is swung inwardly towards handle, whereupon the blade 4 through the medium of links 18, 19 and 20, is forced forwardly and the approaching blade edges 14 and 16 at the bolt.

When applied to a battery connection clamp bolt, the beveled sides 13 and 15 forming cams of the blades 4 and 3 engage and spread apart the clamp members 36 so that the clamp 37 may be readily removed from the battery terminal 38.

A pin may be secured on the frame 1 for engaging the lever 5 to limit the inward movement thereof when the edges of the blades 3 and 4 come together.

I claim as my invention:

In a device as disclosed, a frame, a fixed tool member on one end of the frame, a slidable tool member mounted in said frame to slide longitudinally thereof toward and away from said fixed tool member, a pair of links pivoted together at one end, the other end of one of said links being pivoted to said slidable tool member, the other end of said other link being pivoted to said frame, a lever pivoted to said pair of links at their point of connection, and a third link connected at one end to said lever and at its other end to said frame.

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