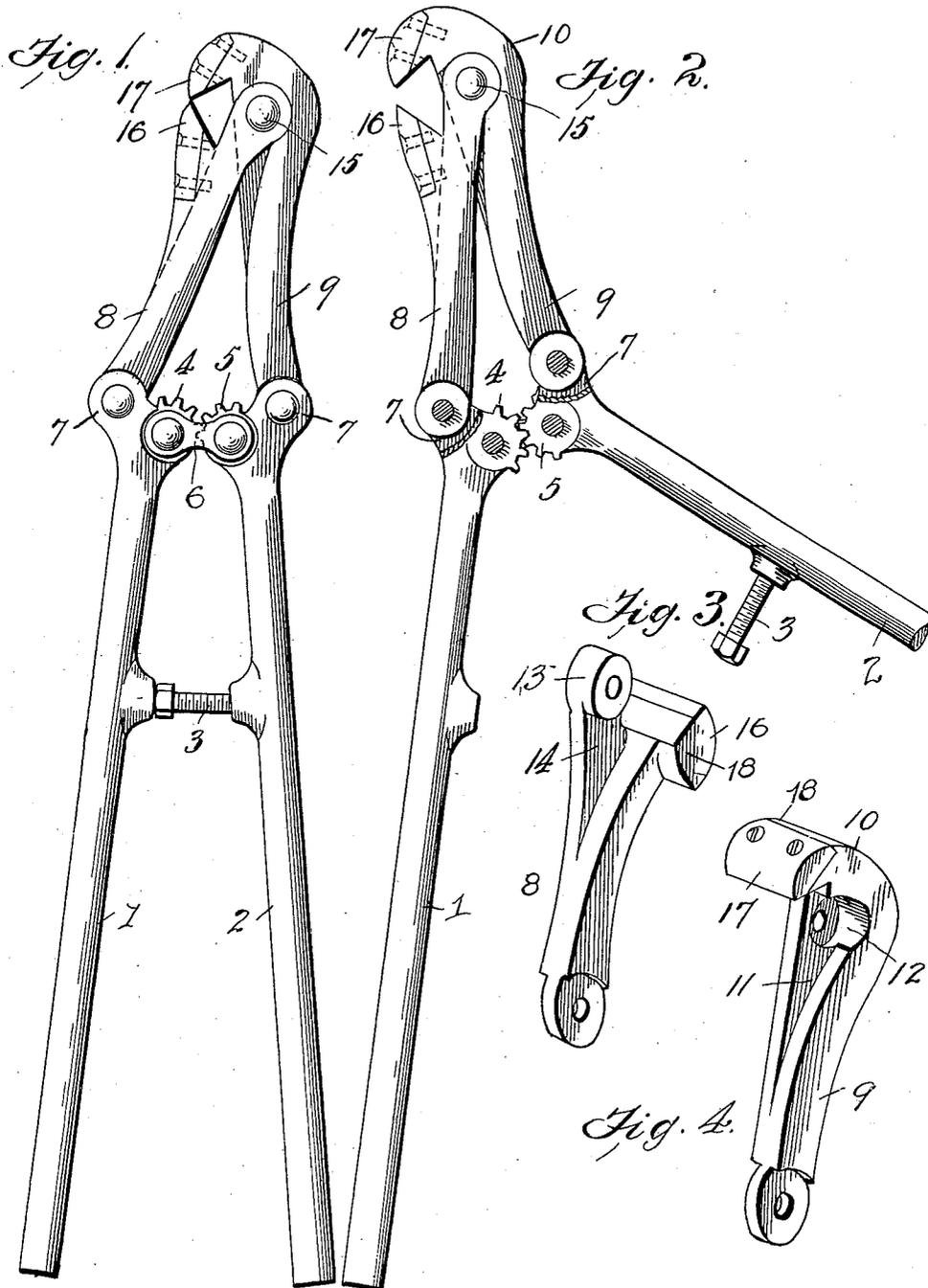


No. 863,111.

PATENTED AUG. 13, 1907.

H. W. SMOHL.
BOLT CLIPPER.

APPLICATION FILED MAY 20, 1907.



WITNESSES

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HENRY W. SMOHL, OF VANDALIA, ILLINOIS.

BOLT-CLIPPER.

No. 863,111.

Specification of Letters Patent.

Patented Aug. 13, 1907.

Application filed May 20, 1907. Serial No. 374,746.

To all whom it may concern:

Be it known that I, HENRY W. SMOHL, a citizen of the United States, residing at Vandalia, in the county of Fayette and State of Illinois, have invented certain new and useful Improvements in Bolt-Clippers, of which the following is a specification.

My invention relates to bolt clippers, and particularly contemplates the provision of a novel leverage system for imparting a maximum of cutting power at the jaws, and the object is to provide this, by a minimum pressure upon the handles.

My invention further resides in the following features of construction, arrangement and operation as will be hereinafter described with reference to the accompanying drawings, in which like numerals are used to indicate like parts throughout the several figures, and in which,

Figure 1 is a side elevation of my improved bolt clipper in the closed position, Fig. 2 is a similar view, certain parts being broken away, showing the same in the open position, Fig. 3 is a rear perspective of one of the jaw levers, and, Fig. 4 is a front perspective view of the other of the jaw levers.

In the practical embodiment of my invention I provide the handles 1 and 2, the handle 2 being provided with an adjustable set screw 3, adapted to bear against the handle 1, to limit the inward movement of said handles to close the jaw. The handles 1 and 2 are provided at their upper ends with inwardly extending toothed segments 4 and 5, respectively, intermeshing one with the other, and coupled together by means of pivotal links 6. The handles 1 and 2 are further provided with angular slotted legs 7, extending outwardly and above said toothed segments 4 and 5. The jaw levers 8 and 9 are pivotally connected within said slotted legs 7, the upper jaw 9 being provided with a rounded head 10 and a cut out portion 11, at the upper end of which, and beneath the head 10, is arranged a socket 12 for the reception of the enlarged end 13 of the angularly extending

leg 14 of the under jaw lever 8. When said enlarged head 13 of said lever is pivotally secured within the socket 12, the leg 14 will fit within the cut out portion 11.

The operation of my device is as follows: When the handles 1 and 2 are moved apart to the position shown in Fig. 2, the lower ends of the jaw levers 8 and 9 will be drawn inward by means of the legs 7 of the handle levers under the movement of the toothed segments 4 and 5, and the jaws will be drawn apart at their pivotal connection formed by the head 13 and socket 12, suitably connected by a pin 15.

The jaws of the levers 8 and 9 may be provided with removable jaw pieces 16 and 17, respectively, having sharpened abutting edges for cutting the bolt.

By reference to Figs. 3 and 4 of the drawing it will be seen that I provide the laterally extending jaw portions and the jaw pieces 16 and 17 with extensions 18 from the sides thereof to provide for the cutting of long bars or rods.

Having thus fully described my invention I claim:

In a bolt clipper, the combination of a pair of handle levers pivotally connected at their upper ends and provided with intermeshing toothed segments and slotted legs extending angularly outward from said segments, jaw levers pivotally connected at their lower ends within said slotted angular legs, one of said jaw levers having a rounded upper end provided with a downwardly extending removable cutting jaw, and having a cut out portion terminating in a socket below said rounded end, the other of said levers being provided with an angular leg having an enlarged end pivotally secured within said socket, and having a removable cutting jaw extending upwardly below said first named jaw and adapted to engage therewith under actuation of said handle levers, said removable jaws being provided with portions extending to the sides of said levers, to provide for cutting long rods and bars, substantially as described.

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

HENRY W. SMOHL.

Witnesses:

H. T. HUSS,
T. C. MILLS.