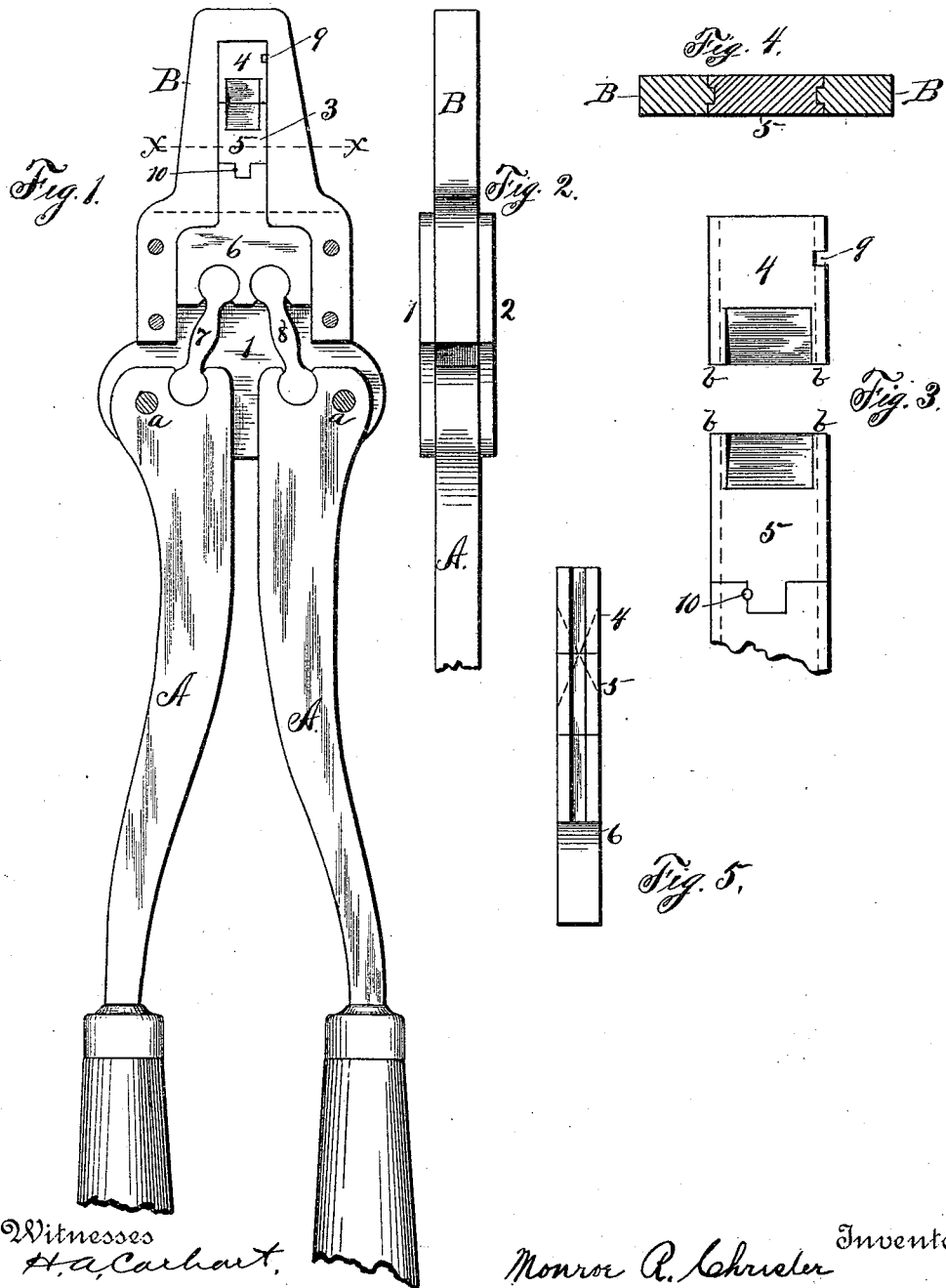


(No Model.)

M. R. CHRISLER.
BOLT CUTTER.

No. 454,852.

Patented June 30, 1891.



Witnesses
H. A. Carhart,
A. H. Ford

Monroe R. Chrisler Inventor
By his Attorneys
Smith & Davis

UNITED STATES PATENT OFFICE.

MONROE R. CHRISLER, OF ELMIRA, NEW YORK.

BOLT-CUTTER.

SPECIFICATION forming part of Letters Patent No. 454,852, dated June 30, 1891.

Application filed December 15, 1890. Serial No. 374,818. (No model.)

To all whom it may concern:

Be it known that I, MONROE R. CHRISLER, of Elmira, in the county of Chemung, in the State of New York, have invented new and useful Improvements in Bolt-Clippers, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to bolt-cutters.

My object is to produce a bolt-cutter cheap and durable in construction, and in which the knives can be readily removed when it is desired to sharpen.

My invention consists in the several novel features of construction and operation hereinafter described, and which are specifically set forth in the claims annexed. It is constructed as follows, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of the clipper in a closed position with one of the base-plates removed. Fig. 2 is an edge view of the working parts. Fig. 3 is a view of the knives detached. Fig. 4 is a cross-section on line X X, Fig. 1. Fig. 5 is an edge view of the case enclosing the knives, showing the edges of the knives meeting, in dotted lines.

Similar letters and figures of reference indicate the corresponding parts.

A A are the handles or levers by which the device is operated, eccentrically pivoted at *a* between the two base-plates 1 and 2. Between the opposite ends of the base-plates I secure a head B, having a slotway or recess 3 therein. In the outer end of this recess I dovetail and secure, or otherwise secure, a knife 4.

5 is the opposite knife adapted to slide in the recess, and when in process of operation is forced against the knife 4. The knife 5 is

secured to an operating-piece 6, which fits in the inner end of the head B, as shown in Fig. 1, and adapted to slide therein.

7 and 8 are plates connecting the piece 6 with the levers A.

9 is an opening through which a pin is inserted to hold the knife 4 in position, and 10 is a similar opening to hold the knife 5 in place. The knives are each provided on their outer edge with shoulders *b*, so as to prevent the points from coming together and dulling each other after the bolt is cut.

It will be readily observed that when the handles are forced apart there will be an opening created between the edges of the knives, into which the bolt is inserted, and that by the reverse movement they will be again forced together and the bolt cut.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A bolt-clipper consisting of base-plates, to one end of which are secured operating-levers and to the other end a head adapted to receive the knife, and means for connecting the knives to the levers for the purpose of operating the knives, as set forth.

2. A bolt-clipper consisting of base-plates, to one end of which are secured operating-levers and to the other end a head adapted to receive the knives, means for connecting one of the knives to the lever, and means for securing the knives in position, as set forth.

In witness whereof I have hereunto set my hand on this 3d day of December, 1890.

MONROE R. CHRISLER.

In presence of—

H. P. DENISON,
J. L. DENISON.