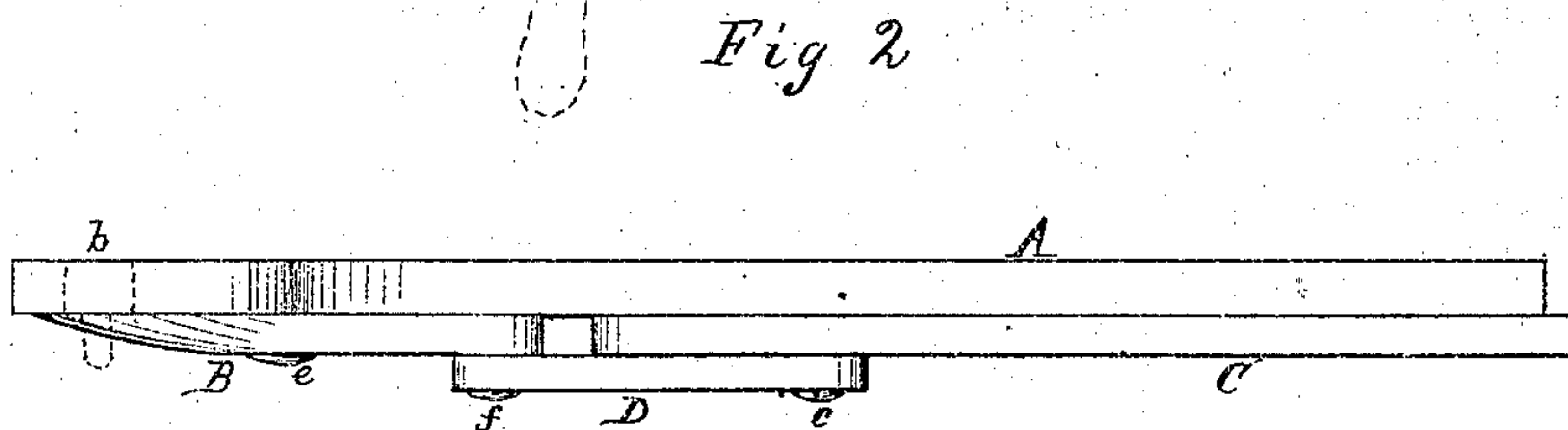
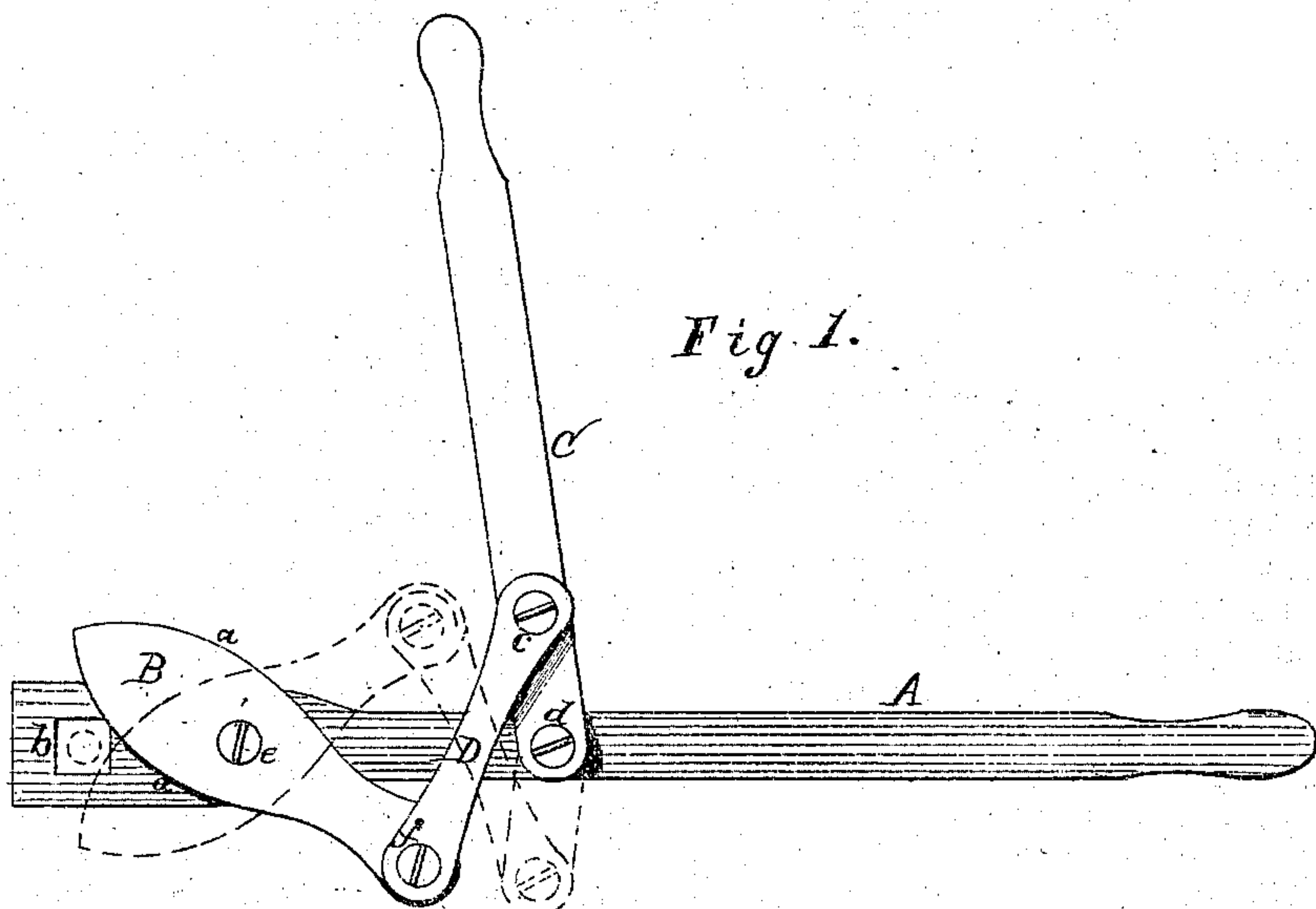


*J. Whittaker*

*Bolt Clipper.*

117495

PATENTED JUL 25 1871



*Witnesses:*  
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# UNITED STATES PATENT OFFICE.

JOHN WHITTAKER, OF SANDUSKY, NEW YORK.

## IMPROVEMENT IN BOLT-CUTTERS.

Specification forming part of Letters Patent No. 117,495, dated July 25, 1871.

*To all whom it may concern:*

Be it known that I, JOHN WHITTAKER, of Sandusky, in the county of Cattaraugus and State of New York, have invented certain Improvements in Implements for Clipping the Ends of Bolts, of which the following is a specification:

My invention relates chiefly to the combination of a cutter and a bar having an opening to receive the nut or end of the bolt, and a means of operating the same for the purpose of severing the projecting ends of the bolts and similar articles.

In the drawing, Figure 1 is a side elevation of my invention. Fig. 2 is a plan view.

A is a bar, having an aperture, *b*, at one extremity to admit the nut of the bolt to be cut, the opposite end being used as a handle to assist in operating the implement. B is a cutter pivoted to the bar A, and constructed to cut in either direction by means of two cutting-edges, *a*. C is an actuating-lever, pivoted at the extremity to the bar A, and connected to the outer end of the cutter B by a link, D. The arrangement of the pivoting cutters *c d e f* is such that a leverage is obtained by the operator upon both C and B, whereby a powerful shear-stroke is imparted to the cutter. By means of the opening *b* in the bar A the nut is held against the thrust of the cutter, and the bolt may be clipped close to its outer face, the opening being of a size to receive a large nut, while a smaller one rests in that corner of the opening opposite the approach of the cutter. In many places in which this implement is required to be used the lever C could not

be swung to the position shown in full lines in Fig. 1, owing to some obstacle; and I therefore so arrange the pivoting points *c d e f* and proportion the parts that the lever and cutter B may be reversed with reference to the bar A, as indicated in dotted lines in Fig. 1, the cutter being constructed to act in either direction, as before described. The operation then becomes precisely similar to that due to the other position of the parts. It will be seen, also, that when the lever C is turned parallel with A the parts are folded together, occupying less room than a pair of blacksmith's tongs, while its construction is so simple that any mechanic can manufacture it.

This invention is particularly for carriage-makers and others who use many bolts in their work, the projecting ends of which it is desirable or necessary to remove.

What I claim as my invention is—

1. In combination with the bar A, provided with opening *b*, the double-edged cutter B, arranged to act in either direction, substantially as described.

2. In combination with the bar A, provided with an opening, *b*, the knife B and lever C, pivoted to the former and connected by the link D, arranged to operate substantially as set forth, whereby a compound-lever movement is imparted to the cutter.

JOHN WHITTAKER.

Witnesses:

E. P. CARTER,  
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