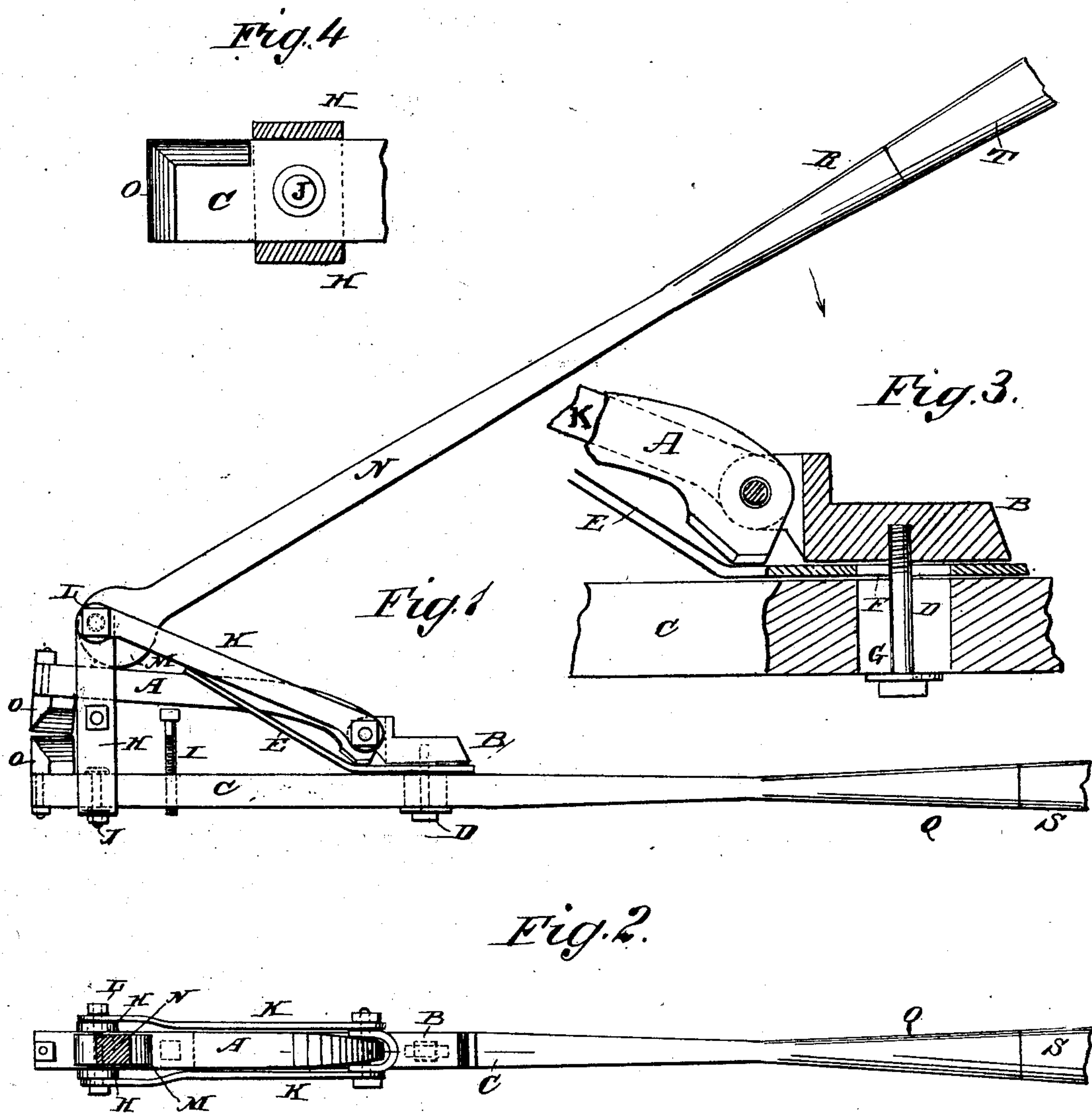


(No Model.)

A. BRETH.
BOLT CLIPPER.

No. 244,789.

Patented July 26, 1881.



WITNESSES:
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UNITED STATES PATENT OFFICE.

ADAM BRETH, OF NEW WASHINGTON, PENNSYLVANIA.

BOLT-CLIPPER.

SPECIFICATION forming part of Letters Patent No. 244,789, dated July 26, 1881.

Application filed April 29, 1881. (No model.)

To all whom it may concern:

Be it known that I, ADAM BRETH, of New Washington, in the county of Clearfield and State of Pennsylvania, have invented a new and Improved Bolt-Clipper, of which the following is a specification.

The object of my invention is to provide a new and improved device for cutting or clipping bolts.

10 The invention consists in pivoting the movable jaw of bolt-clippers to a block made adjustable by a clamp-screw passing through slots of spring and jaw, as hereinafter described.

15 In the accompanying drawings, Figure 1 is a longitudinal elevation of my improved bolt-clipper, showing the jaws almost closed. Fig. 2 is a plan view of the same, showing the cam-lever in section. Fig. 3 is a detail longitudinal sectional elevation of the joint of the pivoted jaw. Fig. 4 is a plan view of the chisel of the lower jaw, the stirrup being shown in section.

Similar letters of reference indicate corresponding parts.

25 A jaw, A, is pivoted at its end to an adjustable block, B, secured to a rigid jaw, C, by means of a screw, D, the position of this block being such that the front end of the pivoted jaw A will be flush with the front end of the rigid jaw C. A spring, E, is secured to the rigid jaw C by the block B and the screw D, and the front end of this spring presses the pivoted jaw A upward. The spring E and the rigid jaw C are provided with the longitudinal slots F and G, respectively, through which slots the screw D passes into the threaded aperture of the block B, thus permitting a slight adjustment of this block and the jaw pivoted thereto in the direction of the length of the jaw C. A stirrup, H, is fastened to the jaw C near its front end by means of a bolt, J, and this stirrup is braced by means of brace-rods K, which are secured to the tops of the stirrup H and to the block B. The pin L, securing the braces K to the top of the stirrup H, also passes through the cam M, attached to a lever, N.

45 Chisels O O, having their cutting-edges beveled from the front end of the jaws, are at-

fached to the jaws A and C, and when they 50 are brought together the front surfaces of the two chisels must be flush, so that each cuts half-way through the bolt. The chisels O O are provided with a round projection or bolt, threaded on its free end, and this, after passing through the jaw, is clamped by a nut, so that the cutting-edges can be turned and correspondingly adjusted to any desired angle. Thus they can be easily set to reach and cut any bolt where a wrench can enter to turn the 60 nut.

A set-screw, P, passes through the rigid jaw C, and prevents the jaw A from descending too far, thus preventing the chisels from battering and dulling each other.

65 The ends of the rigid jaw A and of the lever N are provided with sockets Q and R, to receive the handles S and T, respectively.

By pressing the lever N in the direction of the arrow *a'* the edges of the chisels are brought 70 together and the bolt between them is clipped.

This bolt-clipper can be used to cut any kind of bolts, and cuts them clean and sharp.

The heel of the pivoted jaw is preferably made as wide as the chisel, as this prevents 75 rocking in the side cut.

The block B is preferably provided with flanges to hold it on the bar C, whereby the spring E is held to the bar or rod C more rigidly. 80

I am aware that cam-levers have been used to operate the movable jaws of bolt-clippers, and that a yoke has been heretofore employed.

My block B is made slightly adjustable by the screw D and the slots F G in jaw and 85 spring, so that when the cutters have ceased to match, even by a hair's breadth, which clearly shows itself in the cutting, the difficulty can be removed by simply adjusting the block B.

Having thus described my invention, what 90 I claim is—

In bolt-clippers, the block B, which carries the movable jaw and cutter, made adjustable, as and for the purpose specified.

ADAM BRETH.

Witnesses:

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