Butler & Dunham,

Bolt Cutter.

NO. 97,874. Patented Dec. 14, 1869.

Fig. 1.

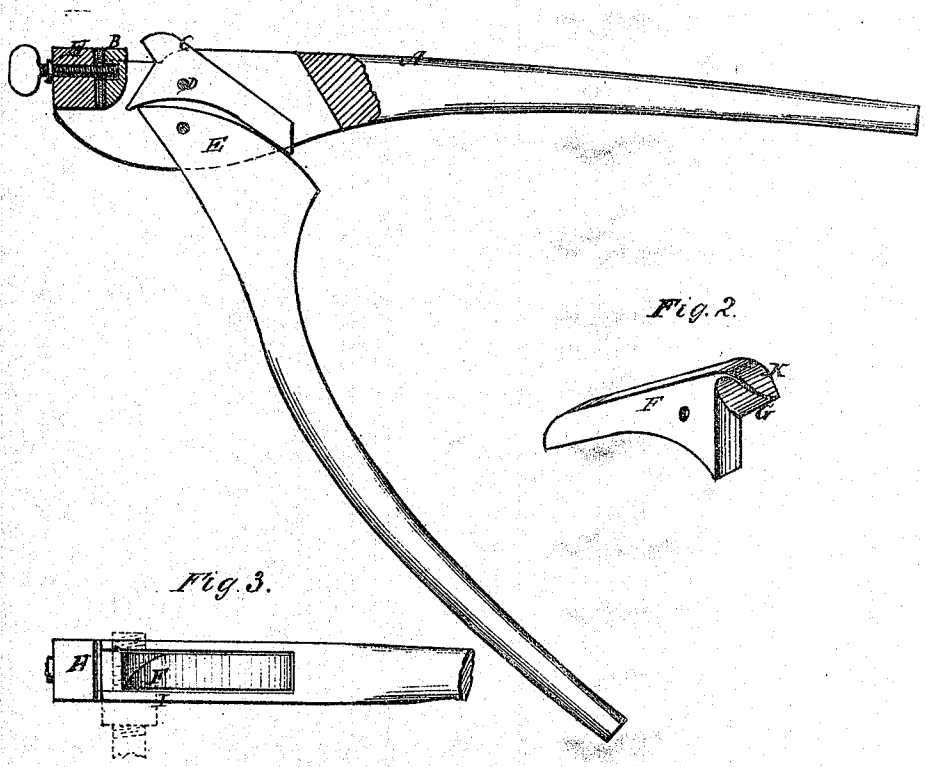


Fig. 2.

Fig. 3.

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ORREN E. BUTLER AND STEPHEN P. DUNHAM, OF MARSHALLTOWN, IOWA.

Letters Patent No. 97,874, *dated December* 14, 1869.

IMPROVED BOLT-CUTTER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, ORREN E. BUTLER and STEPHEN P. DUNHAM, of Marshalltown, in the county of Marshall, and State of Iowa, have invented a new and improved Bolt-Cutter; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in hand-instruments for cutting bolts; and consists in the combination, with the handles of an instrument, such as patented to O. E. Butler, S. P. Dunham, and G. K. Wann, January 19, 1869, as an improved instrument for sharpening horseshoes, of a cutting-jaw of peculiar construction, as hereinafter described, whereby the said tool is adapted, when this cutter is applied in substitution of the cutter and jaw, as used for sharpening horseshoes, to cut off the ends of bolts with great facility.

Figure 1 represents a view, partly in section and partly in elevation, of the above-mentioned improved tool for sharpening horseshoes.

Figure 2 is a perspective of the improved cutter, which we use for cutting bolts; and

Figure 3 is a top view of fig. 1, with cutters, represented in fig. 1, removed, and our improved bolt-cutting knife attached.

Similar letters of reference indicate corresponding parts.

The horseshoe-sharpening tool is provided in the slot of the arm A, with a movable head or adjusting-block, B, and a cutter, C, which operate in conjunction, when the point of the calk bears against the block B; and the cutter is worked on its pivot D, by the cam-lever E, to scrape the surface of the calk, the cutting edge of the cutter C being formed to extend across the end thereof.

We now propose to arrange the said cutter and adjusting-block so that they may be readily removed, and substitute in the place of the cutter C another cutter F, having a shear cutting-edge G, at one edge and extending from the point toward the rivet, and with this cutter we place the tool on the nut of the bolt to be cut off, so that one corner rests in the angle between the block H, at the end of the slotted lever A, and the lower wall I of the slotted part of the said lever, while the lower face K of the cutter F rests on the top of the nut to be brought against the projecting screw-threaded end, by forcing the levers together, to cut it off.

Having thus described our invention,

We claim as new, and desire to secure by Letters Patent—

The combination, with the slotted lever A and cam-lever E, of the bolt-cutter F, when all constructed and arranged, substantially as specified.

The above specification of our invention signed by us, this 28th day of September, 1869.

ORREN E. BUTLER.
STEPHEN P. DUNHAM.

Witnesses:
A. P. LOWERY,
J. M. MOORE.