A. S. McDOWELL.

Tool for Cutting Rivets.

No. 201,262. Patented March 12, 1878.

Fig. 1.

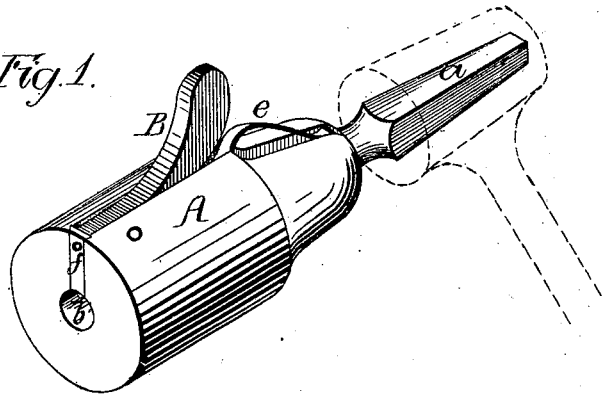
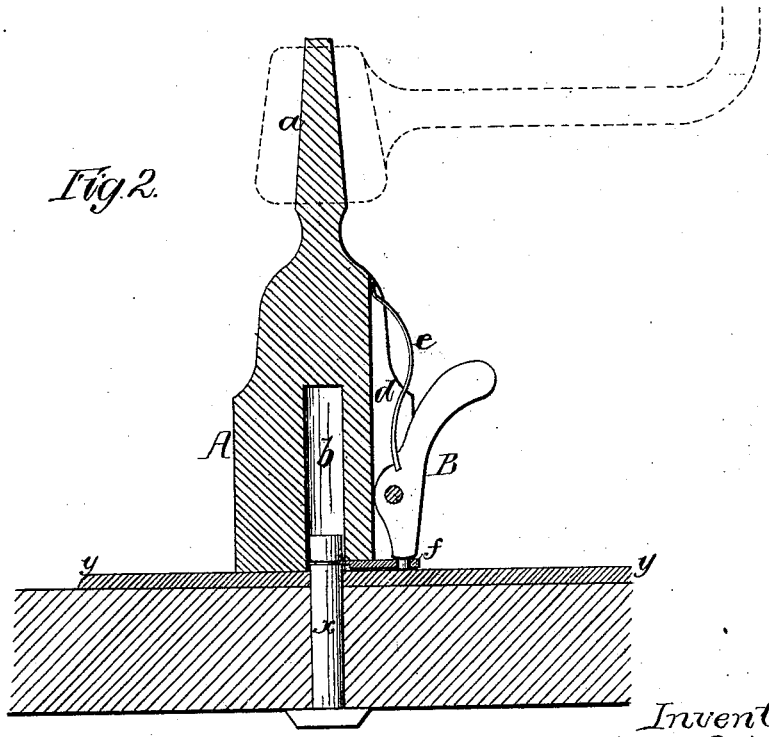


Fig. 2.



Witnesses
Henry Howson Jr
Harry Smith

Inventor
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by his Attorneys
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UNITED STATES PATENT OFFICE.

ABRAHAM S. McDOWELL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO AUGUST NITTINGER, JR., OF SAME PLACE.

IMPROVEMENT IN TOOLS FOR CUTTING RIVETS.

Specification forming part of Letters Patent No. **201,262**, dated March 12, 1878; application filed October 22, 1877.

To all whom it may concern:

Be it known that I, ABRAHAM S. McDOWELL, of Philadelphia, Pennsylvania, have invented a new and useful Improvement in Tools for Cutting Rivets, of which the following is a specification:

The object of my invention is to construct an implement for rapidly and effectually removing surplus metal from the end of a rivet prior to the riveting of the same—an object which I attain in the following manner, reference being had to the accompanying drawing, in which—

Figure 1 is a perspective view of my improved rivet-cutter; Fig. 2, a sectional view of the same, illustrating the method of operation.

A is a metal block, having at the rear end an extension, *a*, of square or angular form in cross-section, so as to be adapted to an opening of similar shape in the hub of a brace, as shown by dotted lines.

In the block A is formed a central opening, *b*, and at one side a longitudinal recess, *d*, in which is hung a lever, B, the long arm of the latter being acted upon by a spring, *e*, while its short arm carries a pin adapted to an opening in a cutting-bit, *f*. This bit *f* has dovetailed edges adapted to the dovetailed edges of a recess formed in the face of the block A, so that the said bit, while closely confined both laterally and longitudinally, is at liberty to slide radially.

The mode of removing the surplus metal from the projecting end of a rivet with this implement is as follows: The rivet *x* being introduced into position, as shown in Fig. 2, the long arm of the lever B is depressed so as to move the bit *f* outward, and thus allow the projecting end of the rivet to enter the central opening *b* of the block A, the face of the latter resting upon the surface *y*, above which the end of the rivet projects, said surface thus forming a bearing for the face of the block, and insuring the parallelism therewith of the cut end of the rivet. After the block A has been thus adjusted, the long arm of the lever B is released, whereupon the action of the spring *e* will cause the cutting end of the bit *f* to bear upon the rivet. The block A is now rotated until the rivet has been cut partially through, when the bit *f* is retracted, the implement removed, and the partly-severed end of the rivet removed by the blow of a hammer. The distance between the cut end of the rivet *x* and the surface *y* above which it projects may be varied by introducing washers between said surface *y* and the face of the block A.

It will be evident that the above-described implement will perform the work for which it is designed with much greater rapidity and precision than can be attained by the old method of chipping by hand.

The tool may be applied to the cutting of bolts as well as rivets.

I claim as my invention—

1. The within-described tool for cutting bolts or rivets, said tool consisting of a block, A, having a central opening, *b*, for receiving the end of the bolt or rivet, a sliding bit, *f*, for acting on the same, and an angular extension, *a*, adapted to the hub of a brace, as set forth.

2. The combination of the block A, having a central opening, *b*, with the sliding bit *f*, adapted to a recess in the block A, and acted upon by a spring which tends to force its cutting end into the opening *b*, as specified.

3. The combination of the block A, its central opening *b*, and sliding bit *f* with the spring-lever B, pivoted to the block, and serving to impart movement to the said bit *f*, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ABRAHAM S. McDOWELL.

Witnesses:

HERMANN MOESSNER,

HARRY SMITH.