

A. McGUFFIE.  
Angle Iron-Cutters.

No. 145,437.

Patented Dec. 9, 1873.

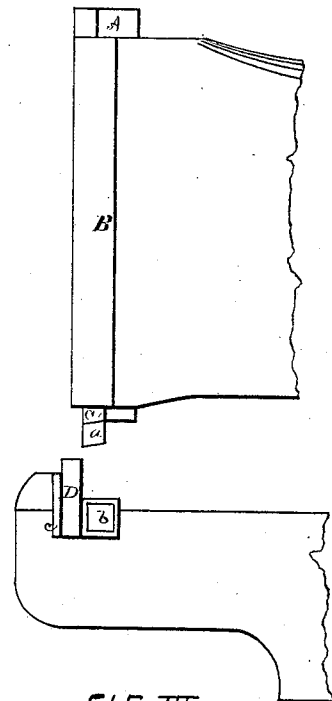
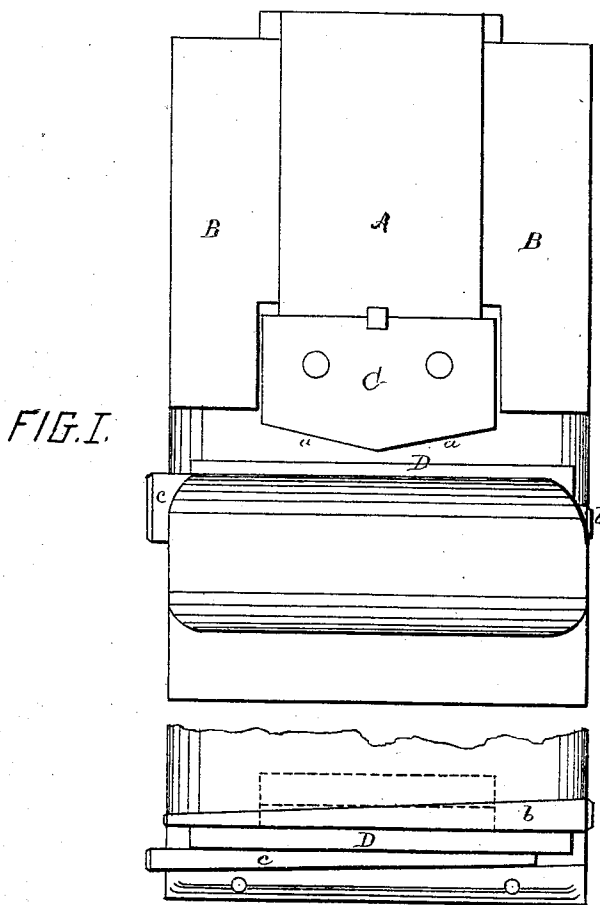


FIG. II.

WITNESSES

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# UNITED STATES PATENT OFFICE.

ARCHIBALD MCGUFFIE, OF BUFFALO, NEW YORK.

## IMPROVEMENT IN ANGLE-IRON CUTTERS.

Specification forming part of Letters Patent No. **145,437**, dated December 9, 1873; application filed September 10, 1873.

*To all whom it may concern:*

Be it known that I, ARCHIBALD MCGUFFIE, of Buffalo, in the county of Erie and State of New York, have invented certain Improvements in Angle-Iron Cutters, of which the following is a specification:

This invention relates to angle-iron-cutting machines, and consists of a removable and reversible lower knife having a plane or straight cutting-edge, which is capable of being adjusted in order to present a new cutting-edge, which is arranged in respect to an upper movable blade having beveled cutting-edges, as will be fully hereinafter described.

In the drawings, Figure 1 is a front elevation of the cutters, &c.; Fig. 2, plan showing the lower knife and wedges; Fig. 3, side elevation.

A represents the slide, working up and down in the upper part of the frame B in the usual manner, and to which the upper blade C of the knife is fastened. This blade is constructed with two beveled edges, *a a*, coming to a point in the center. The lower knife D is formed, in the usual manner, of a single straight piece; but in order to adjust it one way or the other when the edge becomes dull and worn, I supply two metal wedges, *b c*, which sit each side

of the blade D in reversed position, as shown in Figs. 2 and 3. By driving these either way a new edge is presented to the action of the upper blade. These wedges, from their form, do away with packing the blade D, as is usual, as they pack themselves when driven tighter. By constructing the lower knife D with plane cutting-edges, it can be removed and reversed to present a new cutting-edge, and, further, I am enabled to cut at any angle.

I claim—

1. The removable and reversible knife D, having a plane or straight cutting-edge, in combination with the vertical knife C, having the beveled cutting-edges *a a*, arranged substantially as described, for the purpose specified.

2. In an angle-iron-cutting machine, the reversed wedges *b c*, placed one each side of and in combination with the lower blade D, arranged and applied as and for the purpose specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

Witnesses:

J. R. DRAKE,  
T. H. PARSONS.

A. MCGUFFIE.