

(Model.)

W. T. BENNETT.
Tool for Cutting Plate Iron.

No. 232,668.

Patented Sept. 28, 1880.

Fig. 1.

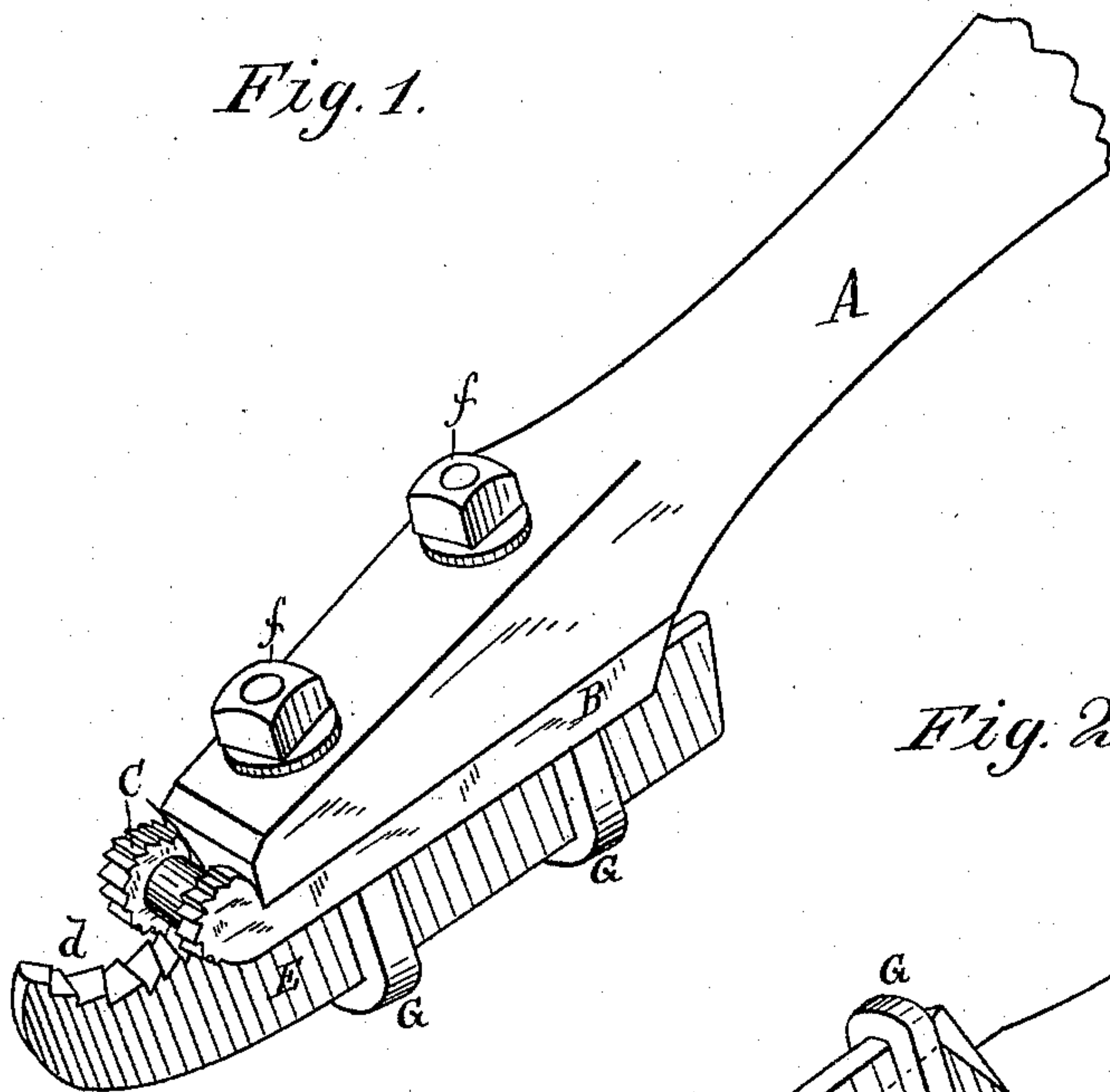
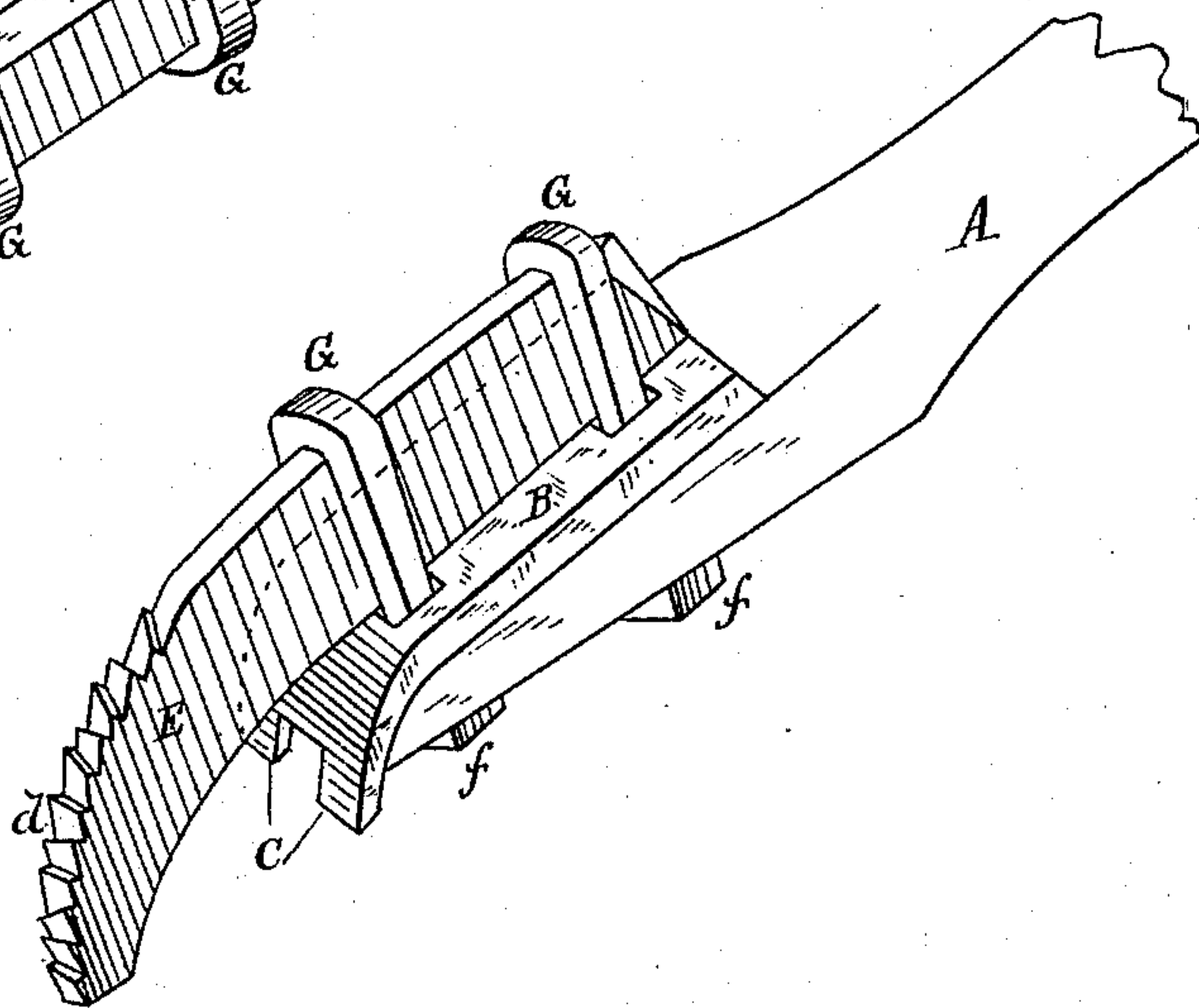


Fig. 2.



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TOOL FOR CUTTING PLATE-IRON.

SPECIFICATION forming part of Letters Patent No. 232,668, dated September 28, 1880.

Application filed May 31, 1880. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM T. BENNETT, of Petersburg, in the county of Menard and State of Illinois, have invented a new and Improved Tool for Cutting Plate-Iron, of which the following is a specification.

My invention is more particularly intended for cutting pieces from steam-boilers in order to insert patches therein; but it may be used for various other purposes.

The invention consists in a novel construction of a cutting-blade and a handle or lever and its fulcrum, and the combination and arrangement thereof with relation to each other, whereby provision is made for cutting or sawing the metal and for operating the tool by moving the handle or lever in different directions.

The accompanying drawings illustrate the manner of carrying out the invention, Figure 1 representing the tool for cutting in one direction, and Fig. 2 for cutting in the opposite direction.

The essential features of the invention consist of a handle or lever and a fulcrum for the same, a serrated blade or bit, and a means for securing the same to the handle. The cutting-edge of the blade or bit is curved eccentrically with relation to the fulcrum. The point of the blade is inserted in a hole in the iron, and the cutting is performed by oscillating the lever on its fulcrum. The hole may be started by driving out a rivet, or it may be made by a punch or a cold-chisel.

The lever A may be made of wood or any other suitable material. At its working end is attached a plate or bar, B, made of steel or hardened iron, which strengthens the lever and furnishes a bearing for the cutting-blade or bit, and it also has the fulcrum formed with it by curving beyond the end toward the opposite side.

In Fig. 1 the fulcrum C is shown as in the form of a cam, with its face serrated, in order to enable it to bite on the metal. In Fig. 2 the fulcrum C is shown as a sharp edge for the same purpose. Either form may be used,

as may be preferred. In both figures the fulcrum is shown as divided into two branches, so as to bear on both sides of the cut in the iron as the work proceeds.

The cutting-blade or bit E has its working-edge *d* curved eccentrically with relation to the fulcrum C, and said working-edge is serrated or provided with coarse file-teeth. The blade is secured to the plate B and the lever by means of staples or loops G, which pass through the plate and lever and have their shanks screw-threaded and fastened by nuts *f*. The shanks of the blades pass through these loops or staples, and are held securely by tightening the nuts *f*. By this means the blades may be adjusted longitudinally to regulate the cut.

In Fig. 1 the cutting-edge *d* is shown as formed on the concave portion of the blade, or the edge toward the fulcrum, and in Fig. 2 it is formed on the convex or opposite edge. The form shown in Fig. 1 is used by cutting in one direction, and the form shown in Fig. 2 by cutting in the opposite direction. In some cases it may be desirable to work by pulling on the lever, and in other cases by pushing, and these two forms of the blade provide for such cases.

The blades E may be made of various thicknesses, and with various sizes of teeth or serrations, according to the character of the work for which they are to be used.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In a tool for cutting plate-iron, the combination of the lever A, plate or bar B, fulcrum C, and cutting-blade E, provided with serrations *d*, substantially as and for the purpose herein described.

2. The combination, with a bibranchied fulcrum, C, of the blade E, having its serrated edge curved eccentrically with respect to said fulcrum, as and for the purpose specified.

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Witnesses:

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