

(No Model.)

W. T. ARMSTRONG.

MACHINE FOR NOTCHING SHEET METAL.

No. 280,996.

Patented July 10, 1883.

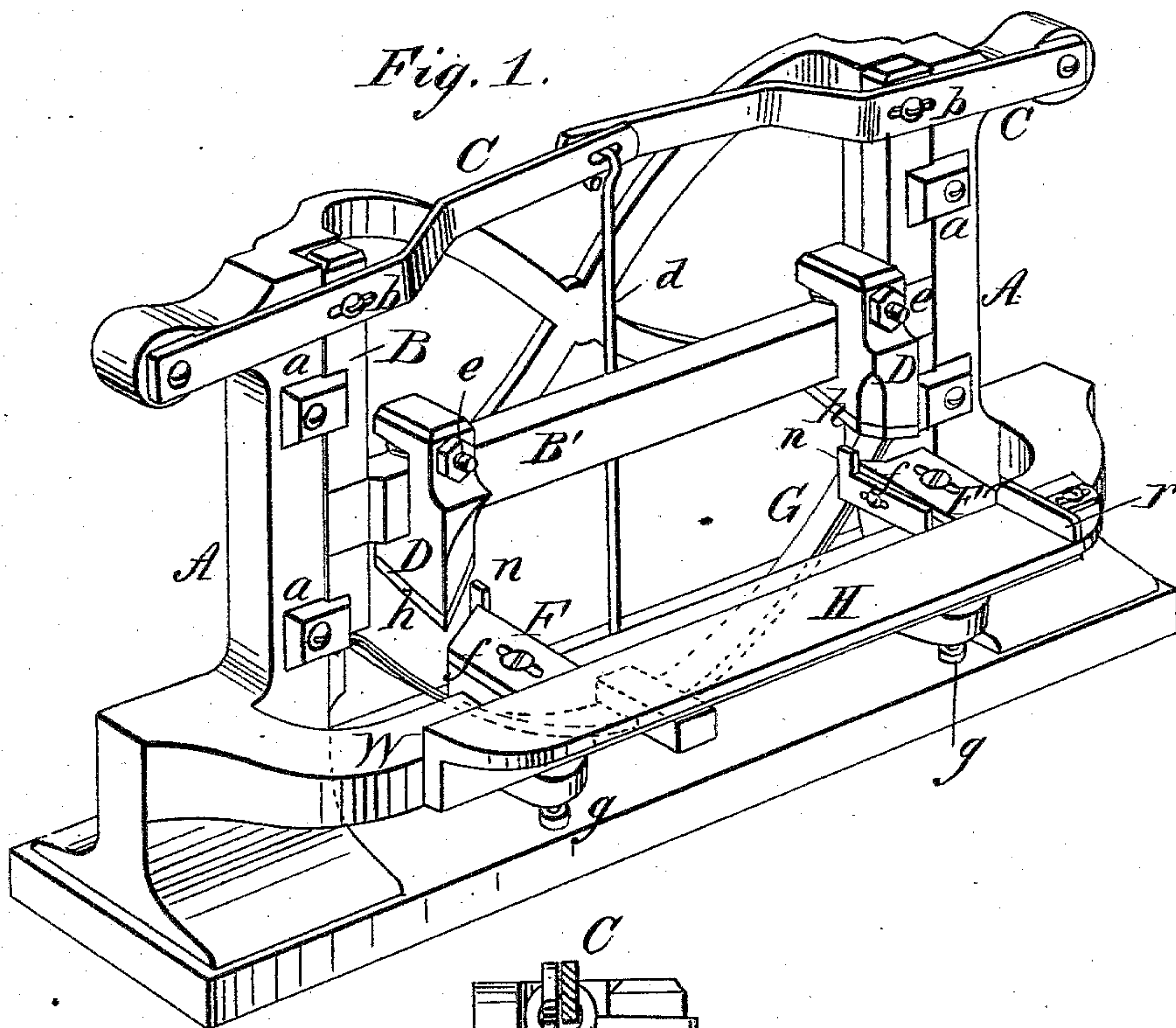
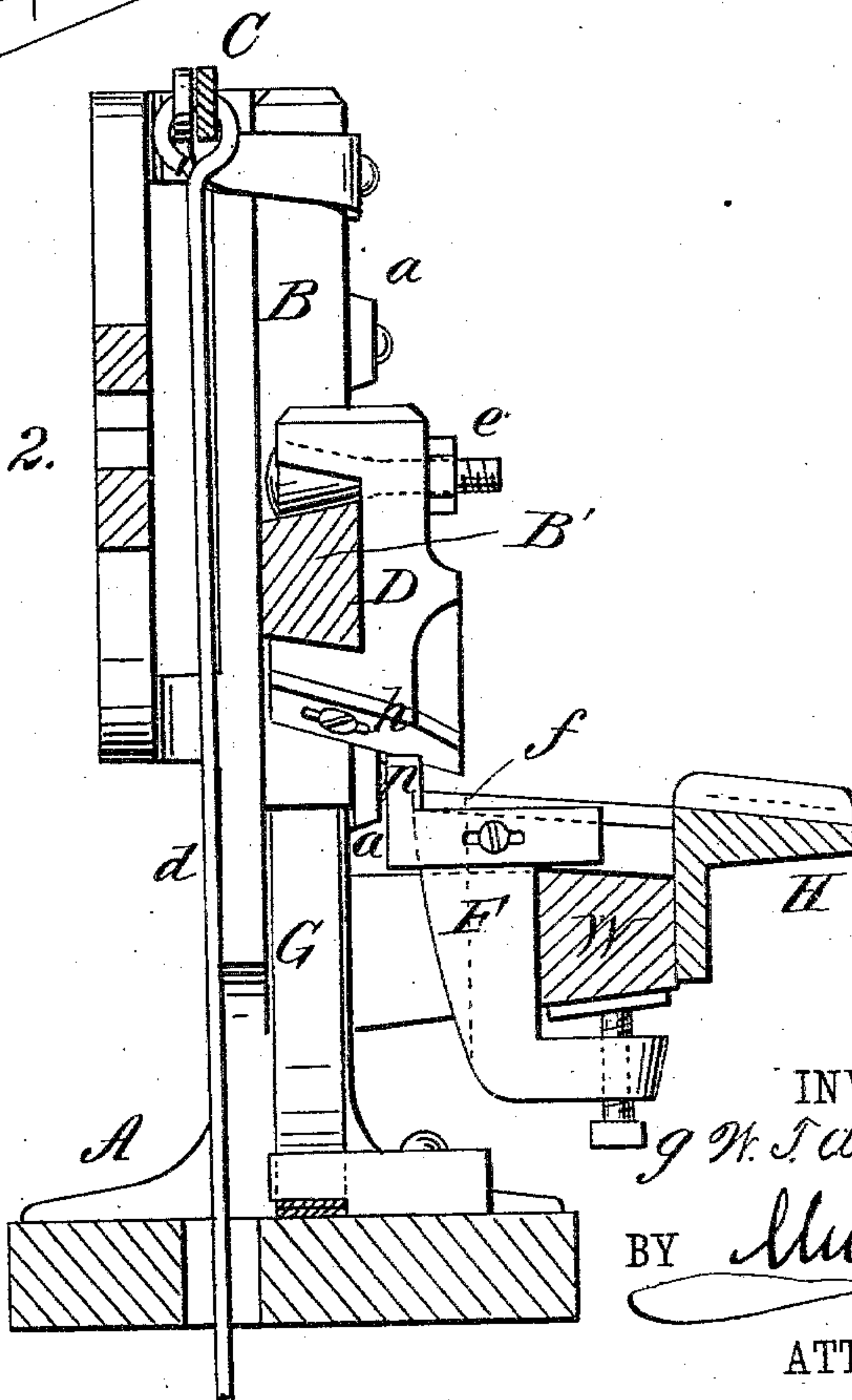


Fig. 2.



WITNESSES:

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MACHINE FOR NOTCHING SHEET METAL.

SPECIFICATION forming part of Letters Patent No. 280,996, dated July 10, 1883.

Application filed March 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, WALTER T. ARMSTRONG, of Andes, in the county of Delaware and State of New York, have invented a new and Improved Machine for Notching Sheet Metal, of which the following is a full, clear, and exact description.

My invention relates to improvements in machines for tinnerns' use for the purpose of notching or cutting sheet metal in the work of making tin or copper vessels, cans, &c., in which the sheet has to be notched for forming the corners of the article properly.

The construction and operation are as follows:

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side perspective view of my machine, and Fig. 2 is a vertical transverse section of the same.

A A are standards on a suitable base.

B is a sliding gate held to the standards by cleats *a a*, so that the gate may slide vertically.

C C are levers hung on standards A, and connected to the gate by screws *b*, passing through slots in the levers.

d is a rod connected to the inner ends of levers C, and passing down through the base for connection to a treadle that will be suitably arranged for moving the gate downward. G is a spring for raising the gate upward when the treadle is released.

Upon the cross-bar B' of the gate B, which is of dovetail form, are blocks D D, held in place by tapering bolts *e*, which allow adjustment of the blocks on the bar to and from each other, according to the length of the sheet of metal. On the under sides of blocks, knives or cutters *h*, of suitable form, are attached.

On a bar, W, connected to the standards A, at the front of the machine, is attached a table, H, and also two blocks, F, held in place by bolts *g*, and having upon their upper sides cutters *f*, corresponding in form to the cutters *h*. On the blocks F are also attached adjustable gages *n*, against which the edge of the sheet is placed to regulate the depth of cut. *r* is a gage on table H for regulating the length of cut.

In the operation of the machine the blocks D F are adjusted on their respective bars according to the length of sheet, and so as to notch at the corners or on the sides, as may be required. The sheet being placed on the table H and moved up to the gages, the gate is moved down by the treadle, and the sheet is thus notched at both corners at once. The gate then rises and the sheet is turned or removed.

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

1. The sliding gate B B, with its cross-bar B', carrying movable or adjustable blocks D, provided with cutters *h*, said gate also being acted upon by springs G, in combination with the levers C, with their outer ends pivoted to arms of uprights of the base A and connected to the gate's upright bars, the inner ends of said levers being connected together and operated by a common rod, *d*, as shown and described, and for the purpose set forth.

2. The combination, with the arm-bar W of the uprights of the base A, said bar extending laterally from the said standards, of the table H, fastened to the arm-bar W, bracket-blocks F, with their upper portions resting upon the arm-bar W and against the table H, and their lower portions extending beneath and adjustable along the arm-bar W, said table having a gage, *r*, at one end, and the blocks F, provided with adjustable gages *n* and cutters *f*, substantially as and for the purpose set forth.

3. In a machine for notching sheet metal, the uprights of the base A, having the arm-bar W extending from one side thereof, of the sliding spring-actuated gate B, with its cross-bar B', carrying the adjustable blocks D, provided with cutters *h*, the levers C, connected to the gate, and with their meeting ends connected to an operating-rod, *d*, the table H, having the gage *r*, and blocks F, carrying the adjustable gages *n* and cutters *f*, and adjustable upon the bar W, substantially as and for the purpose set forth.

WALTER T. ARMSTRONG.

Witnesses:

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