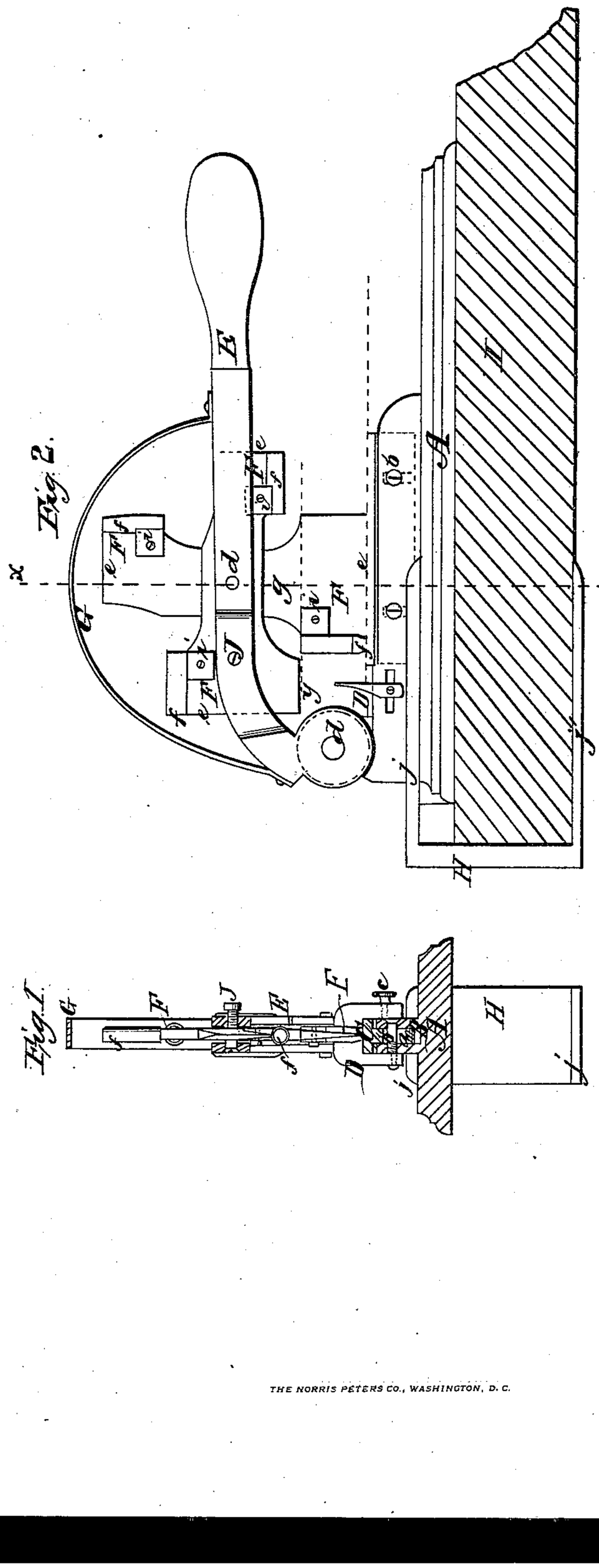
C. Currier,

Button-Hole Cutter.

No. 20,632. Patented June 22, 1858.



UNITED STATES PATENT OFFICE.

CHAS. CURRIER, OF PROVIDENCE, RHODE ISLAND.

IMPLEMENT FOR CUTTING BUTTONHOLES.

Specification of Letters Patent No. 20,632, dated June 22, 1858.

To all whom it may concern:

Be it known that I, CHARLES CURRIER, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Implement for Cutting Buttonholes in Garments; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a transverse vertical section of my improvement taken in the line *x*, *x*, Fig. 2. Fig. 2, is a side view of the same. Fig. 3, is a section of a cutter taken in the line, *y*, *y*, Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in the employment or use of rotating cutters peculiarly constructed and fitted within a lever or handle, an adjustable bed, and adjustable guide arranged as hereinafter fully shown and described, whereby a very simple and efficient implement is obtained for the purpose designed, one that may be readily kept in proper working order and used for cutting button holes of various sizes.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A, represents the bed plate or base of the implement, constructed of metal and having a vertical ledge B, upon it, said ledge being rather more than equal to one-half of the bed in length. The ledge B, is slotted longitudinally and vertically at its center to receive the flanch *a*, of a bed C, and horizontally through the ledge B, and flanch *a*, set screws *b*, pass, by adjusting which the bed may be elevated or depressed as occasion may require. The bed C, may be of brass or other metal, possessing a requisite degree of ductility so as not to turn the edges of the cutters.

On the ledge B, a gage D, is fitted. This gage is simply an upright plate recessed or notched at its lower part so that it may fit over the ledge B, and slide thereon. The gage being secured at any desired point by a set screw *c*.

To the outer end of the ledge B, a lever or handle E, is attached by a pivot *d*, and within this lever or handle a series of cutters F, are pivoted as shown at *d'*. These cutters are of the form generally used for cutting button holes, a straight cutting edge *e*, with a snip *f*, at one end. In the within described implement two steel plates *g*, *g*, cross each other at right angles, the point *d'*, passing through their center. The ends of these plates are brought to a cutting edge and form the straight parts *e*, of the cutters, and the snips *f*, are made separate, provided with ears or flanches, and fitted over the sides of the plates *g*, at proper points and are secured by screws *i*. The cutters F, are made of varying sizes.

G, is a guard which is attached to the lever on handle E, so as to cover the cutters F, that are above the lever or handle.

H, represents a sliding arm or clamp which is formed of a metallic bar, so bent as to form two parallel parts *j*, *j*, the upper one *j*, of which is slotted longitudinally so that it may fit over the bed plate A, at each side of the ledge B. This arm or clamp is for the purpose of securing the implement to a table I, or other support, see Fig. 2.

J, is a set screw which passes through the lever or handle E, and which may be made to bear against either of the plates *g*, and prevent the casual movement of the cutters F.

The implement is used as follows: The proper sized cutter F, is brought around in proper position below the lever or handle E, and the gage D, is properly adjusted, the cloth, shown in red, being placed on the bed C, and having its edge placed against the gage, so that the holes will all be cut at a uniform distance from the edge of the cloth. The lever or handle E, is depressed at the proper time and the button holes cut.

By this improvement a person can exert his whole strength on the handle or lever E, and the implement can be used with much greater facility than the ordinary kind which is operated like shears. The cutters also if the screw J, be not set with too great pressure are allowed to adjust themselves so as to act upon the cloth in a position parallel with the bed C. The bed C, when roughened by use may be removed and planished repeatedly for the bed may be adjusted at the proper height by means of the screws *b*, *b*. The snips *f*, may also be detached from the plates *g*, and sharpened with facility.

I am aware that rotary cutters and tools of various kinds have been arranged or connected with rotating stocks, so that in the same implements tools of various kinds and of different sizes might be used. I do not

claim therefore the rotating cutters F, when separately considered; but, having thus described my invention,

What I claim as new and desire to secure by Letters Patent, is,

1. The lever E, provided with the cutters F, in combination with the adjustable bed C, and gage D, arranged substantially as and for the purpose specified.

2. I also claim the snips *f*, made separate from the parts *e*, of the cuttters F, and attached to the plates *g*, by means of the screws *i*, whereby the snips may be readily detached from the parts *e*, of the cutters and sharpened or ground with facility.

CHARLES CURRIER.

Witnesses:
THOS. A. DOYLE,
W. P. MOULTON.