E. F. STEVENS.

Channeling-Tools.

No. 216,980. Patented July 1, 1879.

Fig. 1.

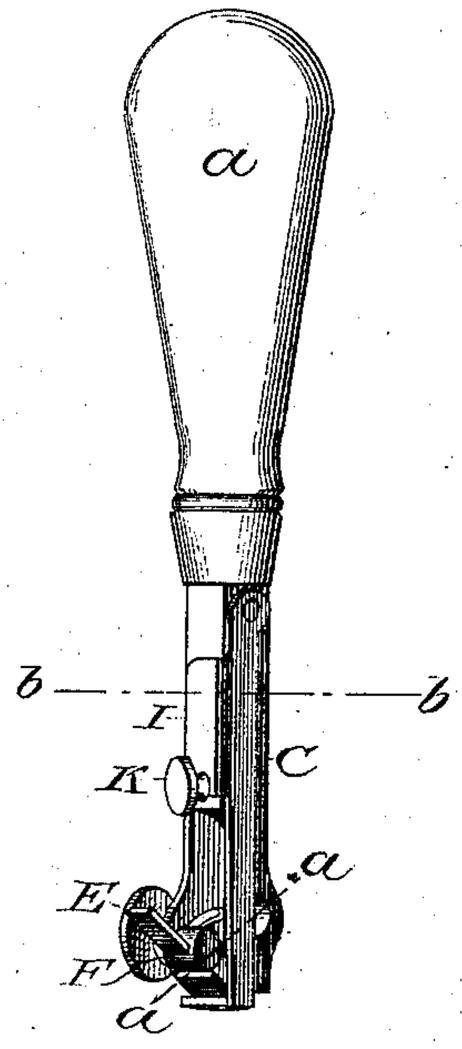


Fig. 2.

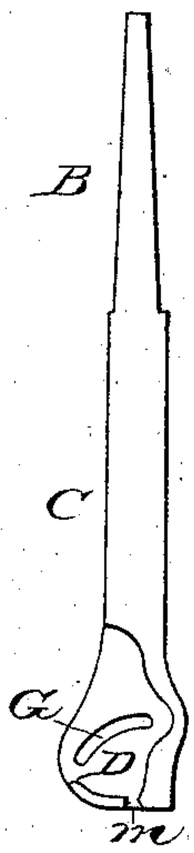


Fig. 7.

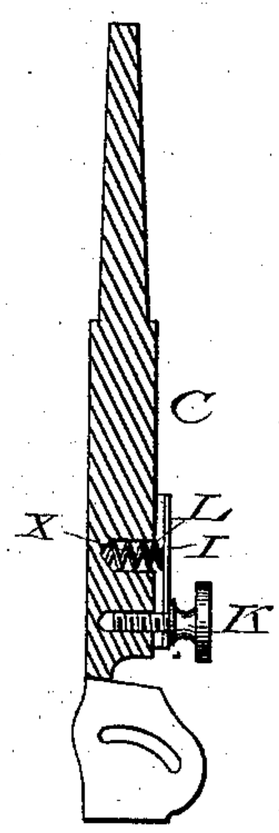


Fig. 3

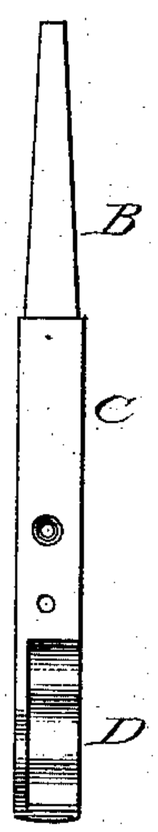


Fig. 5.

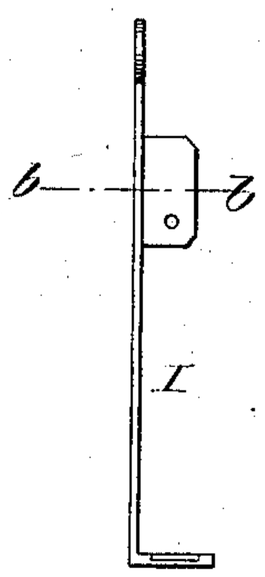


Fig. 4.

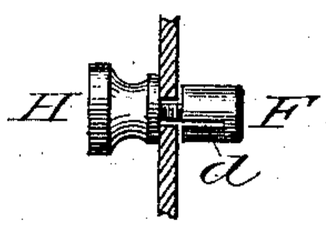
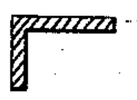


Fig. 6.



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UNITED STATES PATENT OFFICE.

EDWARD F. STEVENS, OF MECHANICS FALLS, MAINE.

IMPROVEMENT IN CHANNELING-TOOLS.

Specification forming part of Letters Patent No. **216,980,** dated July 1, 1879; application filed January 16, 1879.

To all whom it may concern:

Be it known that I, EDWARD F. STEVENS, of Mechanics Falls, in the county of Androscoggin and State of Maine, have invented a new and useful Improvement in Channeling-Tools; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of my channeling-tool. Fig. 2 is a side view of the body. Fig. 3 is a back view of the body. Fig. 4 is a view of the knife-holding and angle-adjustment device, taken on line *a a* of Fig. 1. Fig. 5 is a front view of the gage. Fig. 6 is a sectional view of the gage on the line *b b*, Figs. 1 and 5; and Fig. 7 is a detail view, showing the location of the spring.

My invention relates to a class of tools used by shoe-makers and harness-makers.

The object of the tool is to cut an oblique slit in the top or edge, or a perpendicular slit in the top, of the sole or strap at a uniform distance from the edge thereof. This slit may be made to receive and hide the stitches in sewed boots or shoes and harness-work, or may be for the purpose of preventing the coloring-ink from running beyond the slit.

The invention consists of a tool having a body recessed in its lower part, in which recess is a removable knife capable of adjustment, so as to cut an oblique or perpendicular slit of any required depth in a sole or strap, with a device for holding the knife firmly in any of its several positions, and a gage pivoted to the body and capable of adjustment, so as to cut the slit at different distances from the edge of the sole or strap.

Referring to the drawings, in which similar letters of reference indicate like parts, A is the handle, having an aperture to receive the tang B of the body C. The body C has a recess, D, in its lower part, in which is placed the knife E and knife-clamp F. It also has a slot, G, through which passes the threaded end of the knife-clamp. A slot, M, extends from the lower part of the recess D to the bottom of the tool, through which the knife extends. This slot is as wide as the thickness of the knife, and by changing the position of the knife-clamp F in the slot G the angle of the knife is changed.

The knife-clamp F has a transverse slot, *d*, in its large end, through which passes the knife E. The other end of the knife-clamp, which passes through the slot G, is smaller and is threaded to receive the thumb-nut H. By turning up this nut the knife is held firmly in any of its several positions.

The gage J is pivoted to the body C at its upper part and extends down the side of the same. At the lower end of the body it is bent at a right angle and extends across the bottom of the body. This part of the gage rests against the edge of the sole or strap when in operation, thus making the slit at a uniform distance from the edge. The gage is adjusted by the thumb-screw K, which passes through the gage just below the line *b b*, Fig. 1, and is inserted in the body C.

In the hole L in the body C is placed a spiral spring, X, which presses the gage against the shoulder of the thumb-screw K.

In my invention the knife can be removed or adjusted to cut at any depth by simply loosening the thumb-nut H, and the angle of the knife altered by changing the position of the knife-clamp in the slot G. By turning the thumb-screw K in or out, the gage is adjusted to cut the slit at different distances from the edge.

I am aware that removable knives have been used before in this art, and also a pivoted gage, as in Patent No. 206,547, issued July 30, 1878, and such construction is not sought to be covered in this application.

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

The channeling-tool consisting of the body C, provided with the recess D and the curved slot G, the adjustable gage J, pivoted to the body C and held in proper position by thumb-screw K and a coiled spring within said body, and the knife-clamp F, adapted, as shown, to hold the knife at any desired angle by means of slots *d* G and thumb-nut H, all substantially as and for the purpose stated.

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