

CHARLES E. LITTLEFIELD.

Improvement in Tools for Dressing Mortises.

No. 128,050.

Patented June 18, 1872.

Fig. 1.

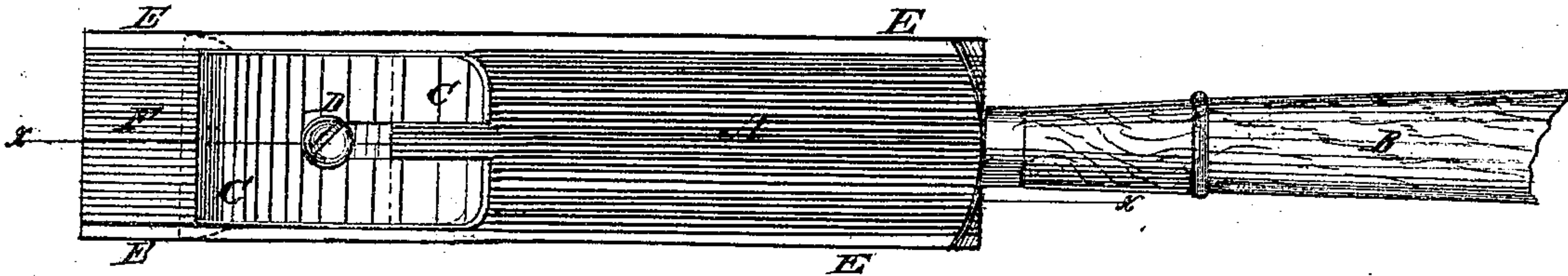


Fig. 2.

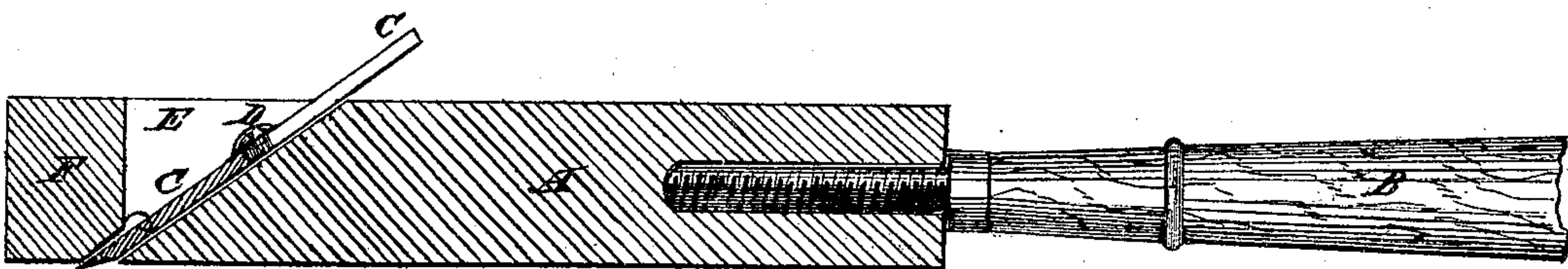
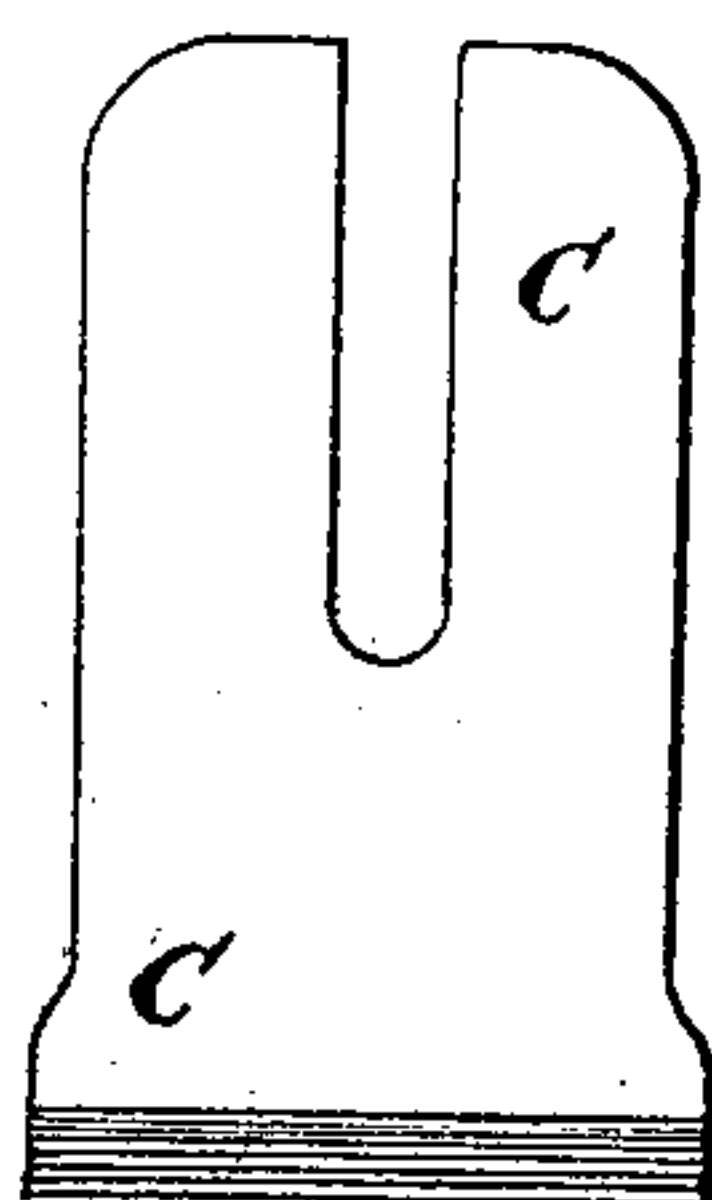


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES E. LITTLEFIELD, OF CARVER'S HARBOR, MAINE.

IMPROVEMENT IN TOOLS FOR DRESSING MORTISES.

Specification forming part of Letters Patent No. 128,050, dated June 18, 1872.

Specification describing a new and Improved Tool, invented by CHARLES EDGAR LITTLEFIELD, of Carver's Harbor, in the county of Knox and State of Maine.

Figure 1 is a top view of my improved tool. Fig. 2 is a detail longitudinal section of the same taken through the line *x x*, Fig. 1. Fig. 3 is a detail plan view of the cutter.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved tool which shall be so constructed as to adapt it for such work as has been heretofore done with the chisel, such as squaring mortises, &c., for following the draw-shave, spoke-shave, &c., and which may be used upon concave, convex, or circular work with the same facility as upon plain work; and it consists in the construction and combination of the various parts of the tool, as hereinafter more fully described.

A is an iron block, to one end of which is attached, or upon it is formed, a handle, B. The forward end of the block A is inclined, as shown in Figs. 1 and 2, to form a seat for the plane iron or cutter C, which is secured to said seat by a screw, D, which passes through a slot in the upper part of the cutter C, as shown in Figs. 1, 2, and 3, and screws into the inclined end of the iron block A. The upper part of the cutter C is made the same width as the block A, and its lower or cutting part is made wider, as shown in Figs. 1 and 3. To the sides of the block A are attached steel plates E, which fit upon and correspond with

the said sides, and their lower edges are notched to receive the projections of the cutter C. The projections of the lower parts of the sides of the cutter C and the thickness of the steel plates E are made equal, as shown in Fig. 2, so that the cutting-edge of the cutter C may exactly equal the width of the stock. This construction enables the tool to cut close up to an angle or line. F is a short block of iron, corresponding in breadth and depth to the breadth and depth of the block A, and interposed between the forward ends of the steel side plates E. The lower inner corner of the block F is beveled off to allow the chips or shavings to escape; or the said block F may be made so short as not to interfere with the escape of said chips or shavings.

The tool thus constructed can be used for many of the purposes for which an ordinary chisel or plane can now be used, and also for many uses and in many places where neither of said tools can now be used.

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

As a new article of manufacture, a planing-tool formed of stock A, recessed to receive the cutter C, and a handle, B, screwed, set, and placed rigidly in line with said stock, all as described.

C. E. LITTLEFIELD.

Witnesses:

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