

C. Warren,

Edge Plane.

No. 17,905.

Patented July 28, 1857.

Fig. 2.

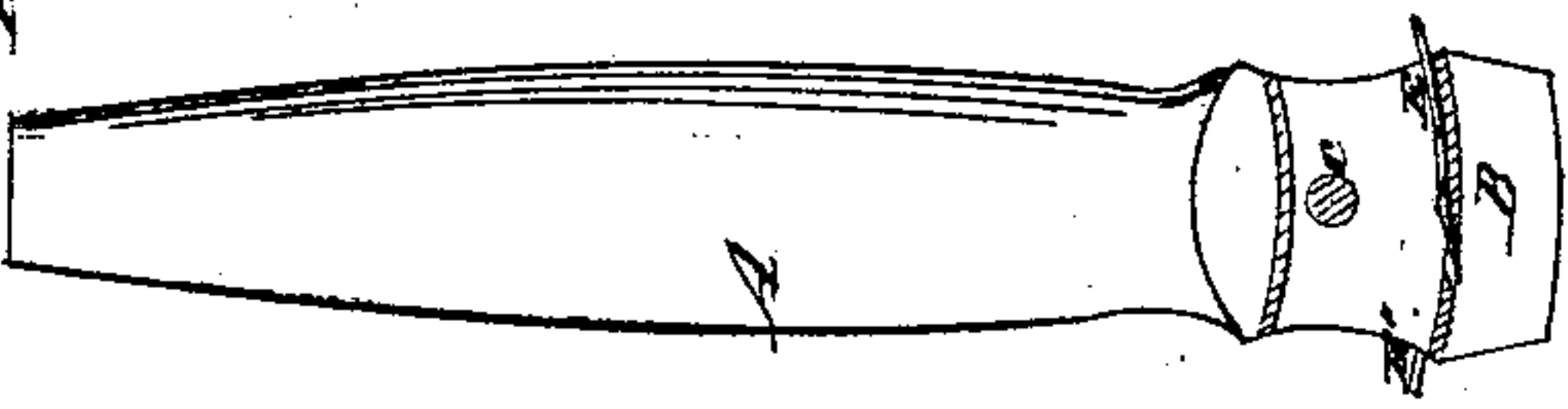
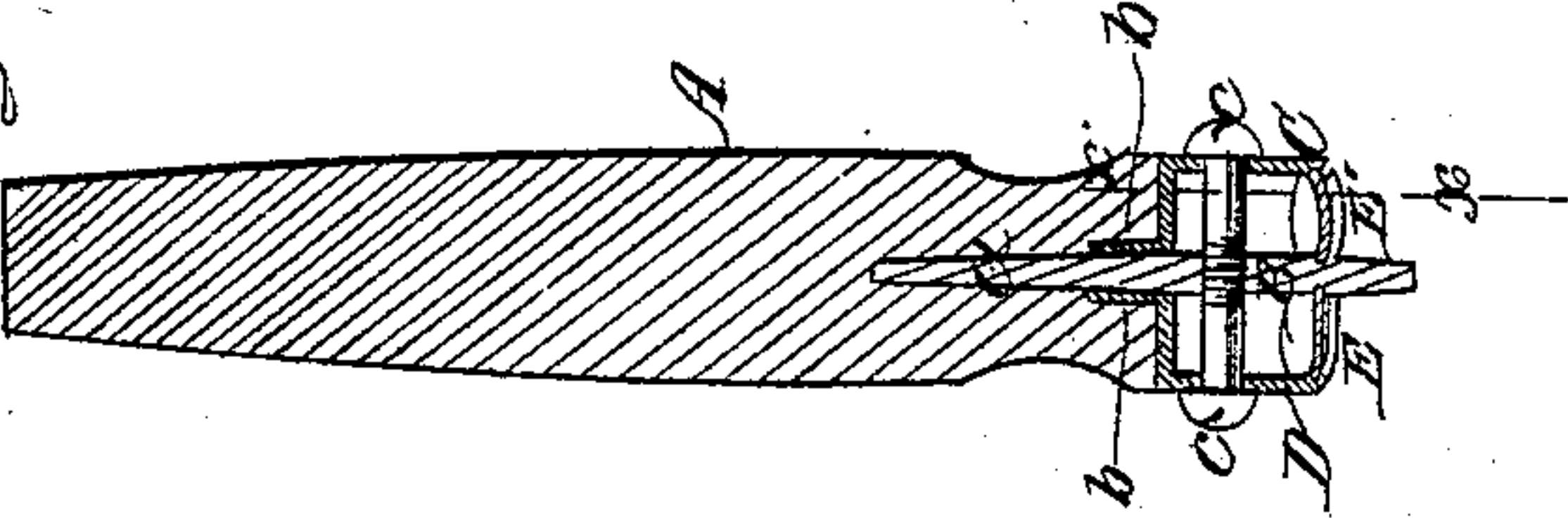


Fig. 3.



Fig. 1.



# UNITED STATES PATENT OFFICE.

CHARLES WARREN, OF PUTNAM, CONNECTICUT.

## EDGE-PLANE FOR TRIMMING THE EDGES OF BOOT AND SHOE SOLES.

Specification of Letters Patent No. 17,905, dated July 28, 1857.

*To all whom it may concern:*

Be it known that I, CHARLES WARREN, of Putnam, in the county of Windham and State of Connecticut, have invented a new and useful Improvement in the Tool Known as an Edge-Plane and Used by Shoemakers for Trimming and Paring the Soles of Boots and Shoes; 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 longitudinal section of my improvement, the plane of section crossing the caps, to which the cutters are attached, at right angles. Fig. 2 is a section of one of the caps and cutters, *x, x*, Fig. 1, showing the plane of section. Fig. 3 is a face view of the tool.

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

This invention consists of a new article of manufacture, viz, a boot-edge plane, made substantially as hereinafter described.

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

A represents the handle of the implement and B represents a metal guide plate of a requisite thickness, breadth and length. This plate has a shank *a*, attached to it, which shank is driven into the handle A, so that the inner edge of the plate will fit snugly against the end of the handle at about its center. The outer edge of the plate B, is slightly convex and to each side of the plate B, a cap is secured. These caps are constructed of metal plate bent in rectangular form and having three sides, so that when secured to the plate B, two chambers or boxes are formed, one at each side of the plate, as shown in Fig. 1. The inner ends of the caps have each a shank *b*, attached to them, said shanks being driven in the handle at each side of the shank *a*, of the plate B. The outer ends of the caps are longitudinally

of convex form corresponding with the edge of the plate B, and one of the caps, that designated by C, is transversely of convex form on its face or outer end, as shown clearly in Fig. 1, while the face of the other cap, D, is flat or straight transversely. The face of each cap has a slot made through it for the edges of cutters E, E', to pass through and the cutters fit in grooves made in the sides of the plate B, and the sides of the caps. The caps C, D, are secured in proper position by screws *c, c*, which pass through the sides of the caps C, D, and into the plate B. The cutter E', has its edge made convex to correspond with the face of the cap C. The edge of the plate B, extends some distance beyond the faces of the caps C, D, so as to form a guard or guide for the cutters.

The cutters, it will be seen, are placed so that they form but a slight angle with the article to be cut, and hence a smooth cut is obtained. The cutters may be readily removed, and adjusted by unscrewing or loosening the screws *c, c*.

I do not claim, broadly, the employment of a screw for adjusting the cutters in boot-edge planes. Nor do I claim, broadly, the placing of both of the cutters in grooves. Both these features may be seen in the patent of Hill and Arnold, 1848. But to the best of my knowledge and belief no boot-edge plane has ever been made in which caps C, D, are employed, the cutters being secured between said caps and a central plate B, by means of screws (*c*) as herein set forth.

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

A boot-edge plane, which has its cutters E, E' secured between caps C, D, and a central plate B, substantially as described.

CHARLES WARREN.

Witnesses:

A. J. CLARK,  
H. JOHNSON.