

(No Model.)

W. F. BULLOCK.

SOLE EDGE PLANE.

No. 253,180.

Patented Feb. 7, 1882.

Fig. 1.

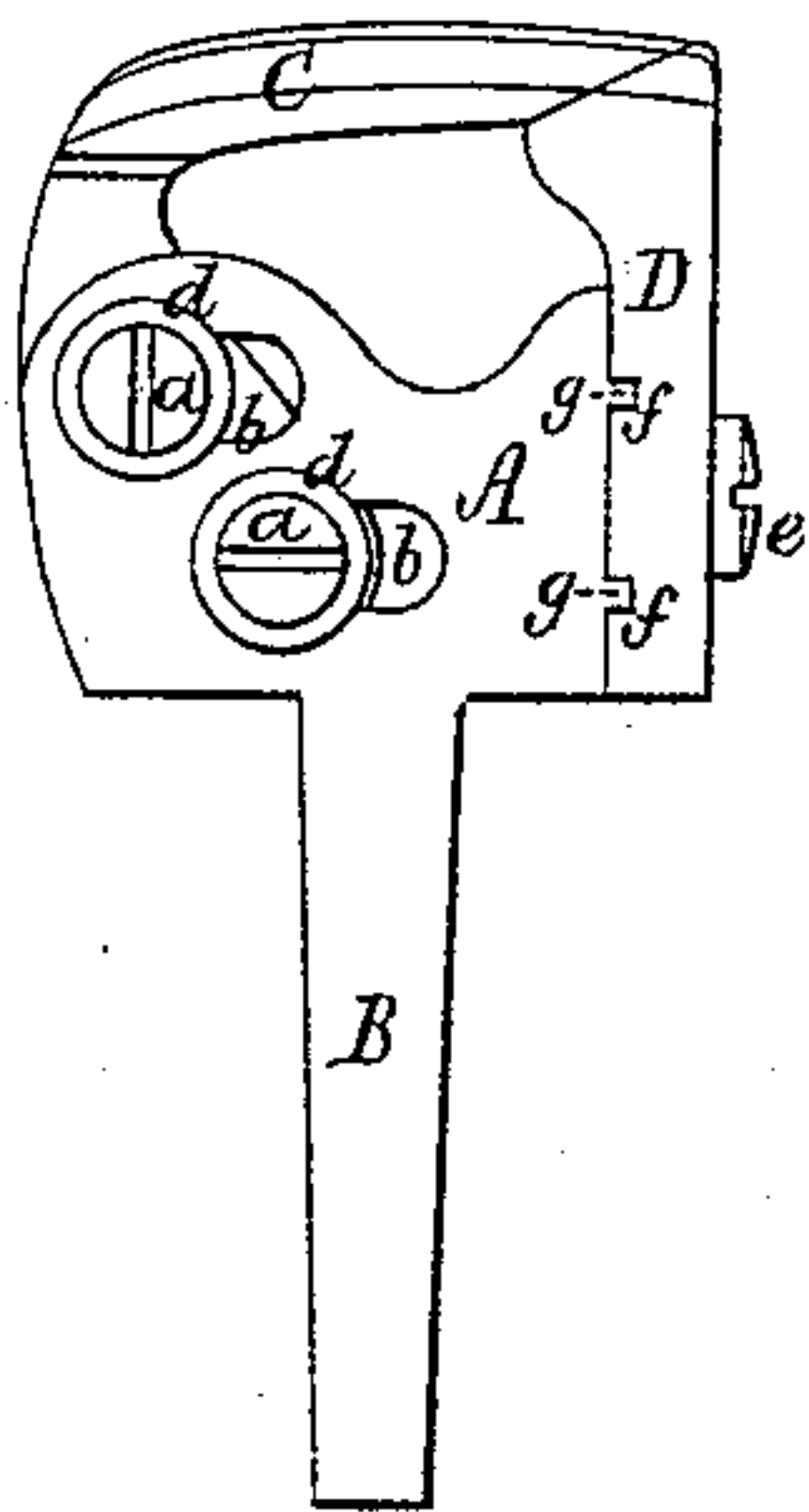


Fig. 3.

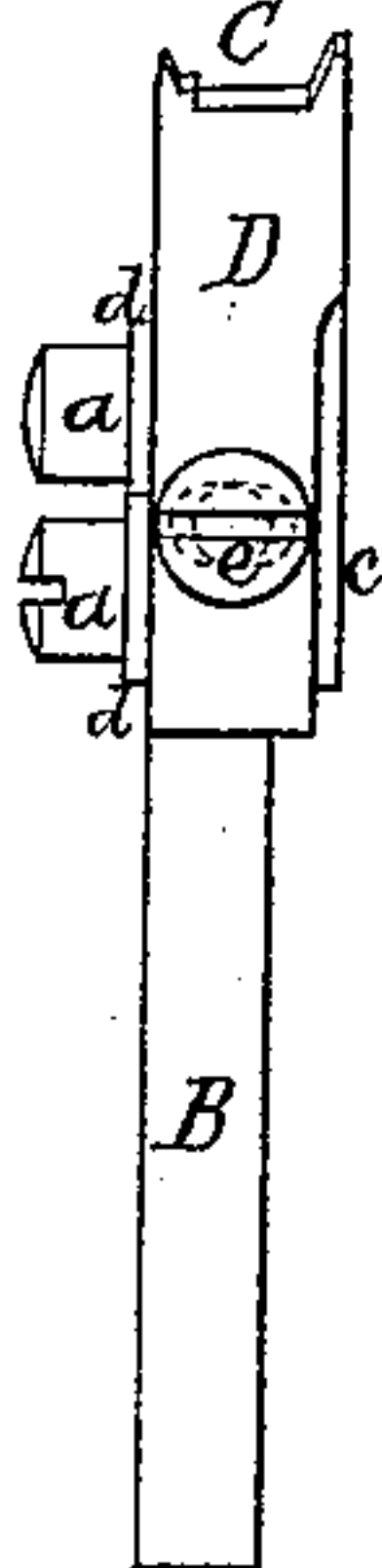
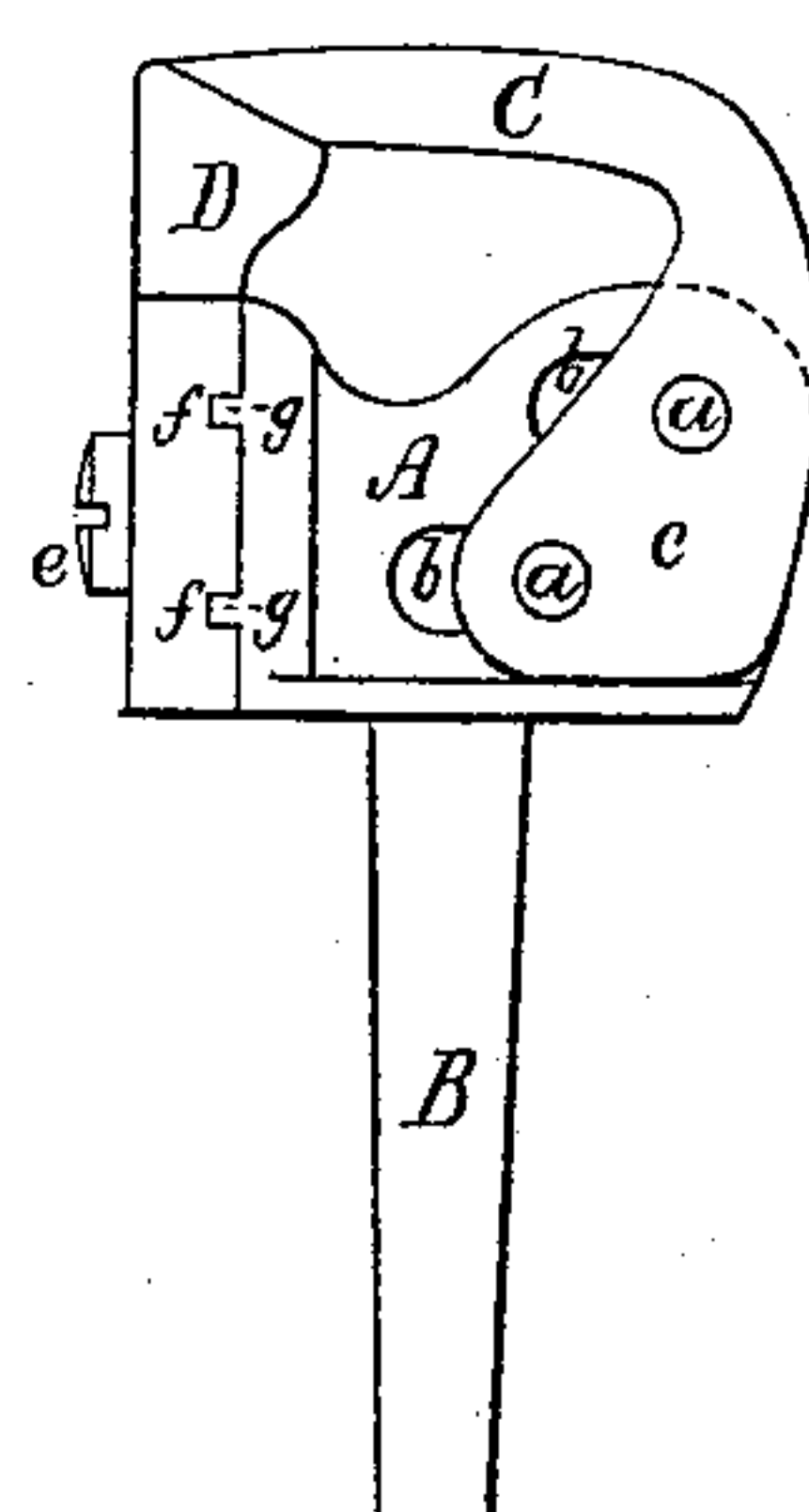


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM F. BULLOCK, OF BOSTON, ASSIGNOR TO HIMSELF AND HORACE A. LOTHROP, OF SHARON, MASSACHUSETTS.

SOLE-EDGE PLANE.

SPECIFICATION forming part of Letters Patent No. 253,180, dated February 7, 1882.

Application filed November 21, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. BULLOCK, of Boston, of the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Shoe-Makers' Edge-Planes; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

10 Figures 1 and 2 are opposite side views, and Fig. 3 an edge view, of an edge-plane of my improved kind.

The nature of my invention is defined in the claim hereinafter presented.

15 In the drawings, A represents the plane-stock, it being provided with a tang or shank, B, for fixing it to the handle.

C is the cutter, which is secured to stock by clamp-screws *a a*, going through slots *b b*, made in the stock, such screws being screwed into the shank *c* of the cutter, and such shank being arranged against one side of the stock. Each of the slots is wider than its screw-shank, and there is arranged upon each screw a washer, 25 *d*, for the head of the screw to bear against.

The guard is shown at D as clamped to the stock by a screw, *e*, whose shank goes through the guard and screws into the stock. The hole in the guard for the reception of the screw-shank should have a diameter longer than that of the said shank, in order to admit of the necessary lateral movements of the guard relatively to the shank and cutter. Furthermore, the guard has in its shank two transverse 35 grooves, *f*, to receive two corresponding tongues, *g*, projecting from the stock and parallel to each other. These grooves and tongues maintain the guard at its proper altitude with respect to the stock, and guide it while being 40 adjusted or moved laterally.

Both the guard and the cutter are channeled in the usual manner at their upper parts or edges. The object of having the guard adjustable laterally is to enable the channels of 45 the guard and the cutter to be brought into correct relations to each other after a sharpening of the cutter or wear of either the cutter or the guard.

While the cutter is rendered adjustable to- 50 ward and from the guard, both horizontally

and vertically, the guard can be adjusted laterally, as set forth.

Now, I do not claim a shoe-maker's edge-plane having its stock and guard in one piece, nor one having its cutter and stock in one 55 piece and provided with a guard having no means of adjusting it laterally relatively to the cutter; nor do I claim a "welt-trimmer" provided with an adjustable guard and collar, as shown and described in the United States 60 Patent No. 157,678, which differs materially from my improved edge-plane, which is for a different purpose, and is channeled in its cutter and guard, which is not the case in the welt trimmer or cutter. My invention is to 65 effect in the edge-plane the proper relations of the channels of the cutter and guard, which is to accomplish a result not required in the welt-trimmer, because it has no such channels and their side lips, and it is to cut from a strip of 70 leather a strip triangular in transverse section; whereas the edge-plane is for a different purpose entirely. In order for it to properly operate, not only must the bottoms of the channels of its cutter and guard be in the same 75 curve, but the lips of the channel of the cutter must be in correct alignment with those of the channel of the guard. To accomplish this, not only must the guard be laterally adjustable to the cutter, but the cutter must be ver- 80 tically adjustable to the guard. Furthermore, the cutter must be horizontally, or thereabout, adjustable relatively to the guard, as the thickness of the shaving to be removed by the cutter may require, all of which can be accom- 85 plished in my improved edge-plane.

I claim as my improvement in the edge-plane as follows, viz:

The combination of the channeled cutter C and its set-screws *a a* with the stock A, hav- 90 ing slots *b b*, wider than the shanks of such screws, and also with the channeled guard D, adapted to the stock so as to be adjustable laterally with respect to it and the cutter, substantially and for the purpose set forth.

WILLIAM F. BULLOCK.

Witnesses:

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