

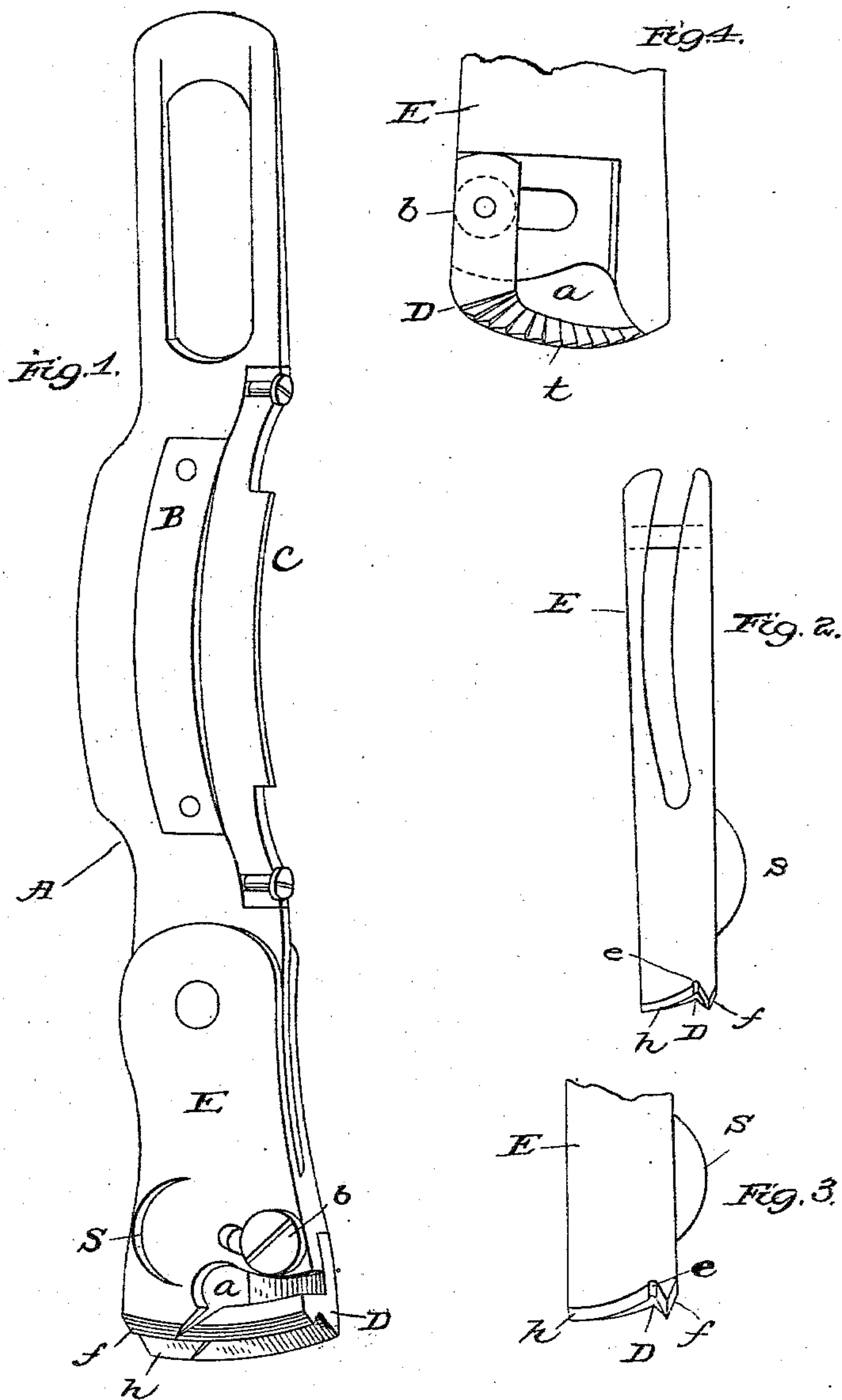
(No Model.)

J. C. WETMORE.

TOOL FOR TRIMMING THE HEELS OF BOOTS OR SHOES.

No. 303,086.

Patented Aug. 5, 1884.



Attest:

F. L. Middleton  
W. L. Williams

Inventor  
Joseph C. Wetmore  
By J. J. Spear  
Attys.



# UNITED STATES PATENT OFFICE.

JOSEPH C. WETMORE, OF LYNN, MASSACHUSETTS.

## TOOL FOR TRIMMING THE HEELS OF BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 303,086, dated August 5, 1884.

Application filed October 11, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH C. WETMORE, of Lynn, in the county of Essex and Commonwealth of Massachusetts, have invented a certain new and Improved Combination Tool for Trimming the Heels of Boots and Shoes, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to an improved device for trimming and finishing the heels of boots and shoes; and it consists, mainly, in a novel and peculiarly-constructed heel-seat plane and the combination thereof with an ordinary heel-shave, as more fully described hereinafter.

In the accompanying drawings, Figure 1 shows an ordinary heel-shave and my improved heel-seat plane attached thereto. Fig. 2 shows an edge view of the plane. Fig. 3 is an edge view of a section of Fig. 2, made on an enlarged scale; and Fig. 4 is a side elevation of parts shown in Fig. 3.

A represents the frame, B the knife, and C the guard, of an ordinary heel-shave, and the construction of these parts is common and well known to those skilled in the art to which it pertains.

D represents the knife for trimming the heel-seat, and E represents the stock, to which the knife is secured by means of set-screw *b*, as fully illustrated in Fig. 1 of the accompanying drawings. Said stock E is designed to cooperate with the knife D in forming a plane for trimming the heel-seat, and to this end the stock is made with an angle, *e*, cut in its end face, as fully represented in Fig. 3. It has a throat, *a*, and is otherwise fashioned, as clearly shown in Figs. 1 and 2, to adapt it to combine with the knife D. In operation the lip *f* is pressed in between the heel-seat and the upper, with the face *h* bearing upon the surface of the heel, so that all pressure downward upon the tool operates to crowd the sharp edge or corner of the heel-seat up into the angle *e*, and thus hold it in position to be trimmed off by the knife D as it follows along.

I am aware that edge-planes for trimming the edges of boot and shoe soles are not new; but my present invention is designed for trimming the heel-seat, which before being trimmed presents a very sharp edge or corner of leather, and this would turn over and pass under the

cutting-knife of a plane constructed in the usual way—that is, in the manner of an edge-plane; and to avoid this result I construct the angle *e* in the face of the plane, as shown. Into this angle the edge of the leather, being pressed and held, as before described, is prevented from escaping the knife; and I am not aware that an edge-plane or other leather plane has ever before been constructed in this manner.

The knife D, it will be observed, is not provided with the angle *e*, but is shaped according to the particular style of the intended heel-seat, which may be wholly different from the shape of the angle *e*. Said knife D may be adjusted by means of the screw *b* in an obvious manner to regulate the size of chip to be cut off, as also to compensate for wear, and the chip, when cut off, passes upward and out of the throat *a*.

In the operation of finishing heels by hand the workman first shaves the edge or face of the heel with an ordinary heel-shave, and then trims off the heel-seat. This last operation is now commonly done with a knife, and of course necessitates the operation of picking up a second tool; hence the advantage of having the two implements combined in one. To this end I have adapted my heel-seat plane to combine with an ordinary heel-shave, and Fig. 1 of the accompanying drawings represents such a shave and the plane combined therewith. By reference to said drawings it will be seen that the stock or handle of the plane is provided with a slot to receive the end of the shave, and the two are clamped together by means of screw, the sides of the stock being adapted to be sprung together sufficiently for this purpose, and the whole combined in this way forms a single handle common to both instruments. Such an arrangement allows the workman, without any inconvenience, to have both tools in hand at one time and dispenses with the necessity of picking up a second implement for trimming the heel-seat, as the same is always in hand ready for use by simply turning the hand up edgewise. It will of course be understood that the handles or frame-work of the two implements may be cast or otherwise formed in a single piece, and if both were to be made new it might be preferred to so construct them; but by having the



heel-seat plane made separately and adapted to be combined with the shave, I am enabled to attach it to the shaves already made and now in use, and obtain all the advantage of a  
5 combined implement—the shave and plane—without the necessity and expense of purchasing the shave new.

The workman holds the implement in one hand while trimming the heel-seat, and on  
10 one side of the handle or stock E is a small projection, S, against which the thumb of the other hand may be pressed, when needed, to assist the right hand in steadying or driving forward the tool. So, too, it is desirable in  
15 many cases, after trimming the heel-seat, to run over the same with a rasp or coarse file to take off any fibers of leather that may be left hanging, and to avoid the necessity of taking up a separate tool for this purpose I construct the cutting-knife D with a file, *t*, cut in  
20 one side thereof, as fully represented in Fig. 4

of the drawings. With these three implements united in one the workman can perform the operation of trimming the heel much easier and with greater expedition than when the  
25 three tools are used separately.

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

1. The combination of the knife D and stock or handle E, said stock being provided with  
30 angle *e* and throat *a*, substantially as stated.

2. In combination with the trimming-knife, the described means for holding the heel-seat, said means being composed of lip *f*, face *h*, and angle *e*, the same being constructed, com-  
35 bined, and located relatively to the knife, substantially as described.

J. C. WETMORE.

Witnesses:

C. B. TUTTLE,

O. A. GETCHELL.