

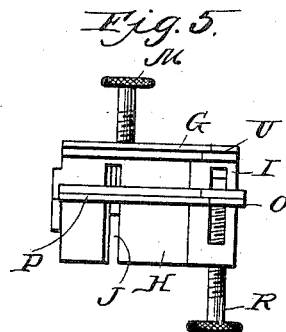
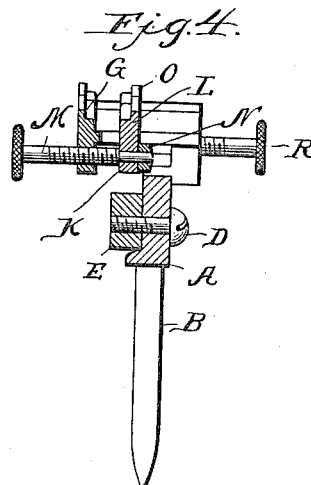
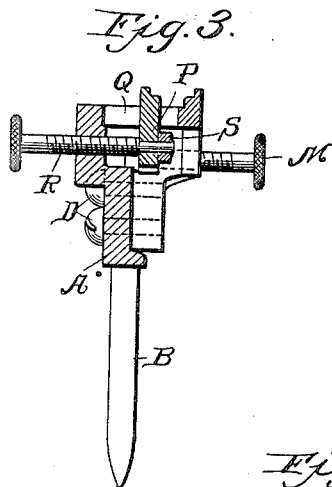
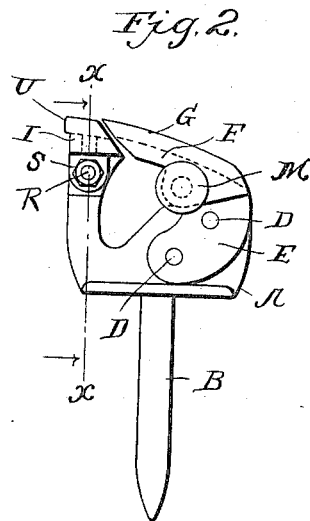
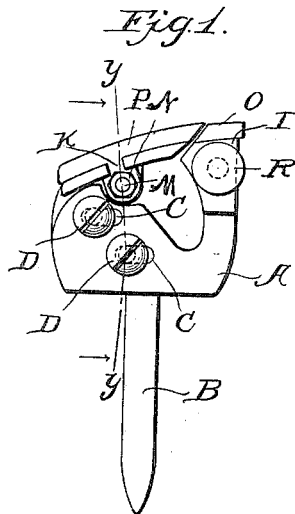
No. 649,937.

Patented May 22, 1900.

B. KERSHAW.
SHOEMAKER'S PLANE.

(Application filed June 26, 1899.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

BENJAMIN KERSHAW, OF LEHIGHTON, PENNSYLVANIA.

SHOEMAKER'S PLANE.

SPECIFICATION forming part of Letters Patent No. 649,937, dated May 22, 1900.

Application filed June 26, 1899. Serial No. 721,983. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN KERSHAW, a citizen of the United States, residing at Lehigh-ton, county of Carbon, and State of Penn-sylvania, have invented a certain new and useful Improvement in Shoemakers' Planes, of which the following is a specification.

My invention relates to a new and useful improvement in planes or edging-tools for shoemakers' use, and has for its object to provide an exceedingly simple and effective device of this description which may be so adjusted as to trim the edges of shoe-soles of various thicknesses, while at the same time producing the proper-shaped cut upon both edges of the sole and guiding the tool in the same manner and as effectually as has heretofore been the case with tools which were not adjustable and which were fitted to one thickness of sole, therefore requiring a different tool for each thickness of sole.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side elevation of a tool made in accordance with my improvement; Fig. 2, a reversed side view thereof; Fig. 3, a section at the line *xx* of Fig. 2 looking in the direction of the arrows; Fig. 4, a section at the line *yy* of Fig. 1 also looking in the direction of the arrows, and Fig. 5 a plan view.

In carrying out my invention as here embodied, A represents the stock, having the shank B projecting downward therefrom, which is adapted to be secured in a handle of any suitable form, and this stock has formed therein the slots C, through which pass the screws D, the latter being threaded into the heel E of the trimmer F. This trimmer has formed therewith the beveled cutter G and the knife H. This cutter and knife are stationary so far as any sidewise movement is concerned, and the former produces the proper

bevel or form upon one side of the edge of the sole, while the knife shaves the vertical portion of said edge in the same manner as has heretofore been done by the ordinary shaving-tool. A gage I is formed with the stock and lies in front of the edge-cutter and the knife in such manner as to prevent an undue hold being taken by said cutter and knife upon the leather, after the manner of an ordinary plane, and the amount of cut which the tool will take is determined by the adjustment of the trimmer, which is effected by means of the screws D, passing through the slots C, as before set forth, since should the trimmer be so adjusted that the cutting edges thereof project considerably above the gage to this extent the hold taken upon the leather will be increased.

The body of the trimmer has formed therein a slot J, through which the lug K, formed upon the under side of the adjustable trimmer L, projects, and this lug has swiveled therein the end of the adjusting-screw M, a washer N being riveted or otherwise secured upon this end, so as to hold it in place within the lug. By this arrangement when the adjusting-screw M is manipulated the adjustable trimmer L will be moved toward or from the stationary trimmer G and, as is obvious, will adapt the tool for trimming and beveling both edges of the sole, as before set forth. It is essential that the proper gage be provided for this adjustable trimmer, and for this purpose the adjustable gage O is fitted in front of this trimmer and the lug P thereof passed through the slot Q. The adjusting-screw R is threaded through the side of the stock, and the end thereof is swiveled in this lug and held in place by the washer S. The manipulation of the screw will vary the distance between the adjustable gage O and the flange U of the stationary gage, so that when the adjustable trimmer is brought into proper relation to the trimmer G the adjustable gage O is made to correspond therewith, as will be readily understood. From this description it follows that any width of sole within reasonable limits may be trimmed upon both edges thereof and as effectually so as though the tool were made for a single-width sole.

If found desirable, suitable jam-nuts may

be placed upon the adjusting-screws, so as to hold them in any adjustment during the operation of the tool.

5 The cost of manufacture of my trimmer and plane is but little in advance of the ordinary trimmer, which operates upon but one thickness of sole, and by its use avoids the necessity of a shoemaker providing himself with from ten to sixteen separate trimmers.

10 Having thus fully described my invention, what I claim as new and useful is—

1. A trimming-plane for shoe-soles consisting of a suitable stock, an edge-cutter and a trimming-knife formed in one piece and adjustably secured to the stock, a second edge-cutter made adjustable upon the knife, a stationary gage, and an adjustable gage secured thereon, substantially as shown and described.

2. In combination with a trimming-plane of the character described, an adjustable edge-cutter L, means for adjusting the same to or from the stationary edge-cutter, an adjustable gage, and means for adjusting the same so

as to correspond with the adjustments of the edge-cutter, as and for the purpose set forth. 25

3. In combination, a suitable stock A, a trimming-knife and edge-cutter formed in one piece and secured to said stock so as to be adjusted in the same vertical plane, a stationary gage adapted to operate in conjunction with said knife and cutter, an edge-cutter I, secured upon the knife so as to be adjusted sidewise, a screw for adjusting the same, an adjustable gage secured upon the first-named gage, and a screw connected with said adjustable gage for manipulating the same whereby the tool is adapted for operation upon soles of varying thicknesses, as specified. 30 35

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses. 40

BENJAMIN KERSHAW.

Witnesses:

MARY E. HAMER,
S. S. WILLIAMSON.