

A. EPPLER.
WELT GUIDE FOR SHOE SEWING MACHINES.
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1,030,721.

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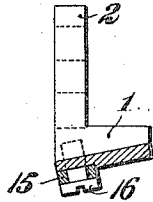


Fig. 5.

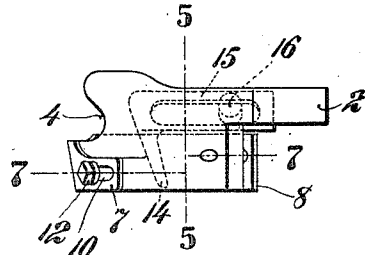


Fig. 1.

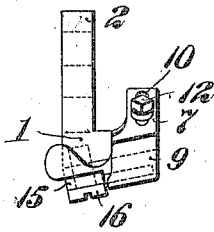


Fig. 4.

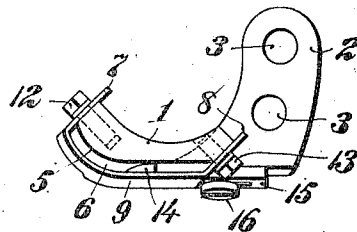


Fig. 2.

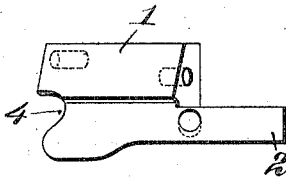


Fig. 6.

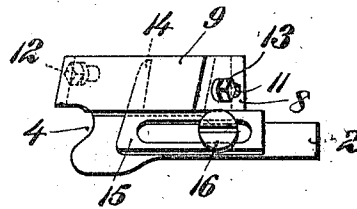


Fig. 3.

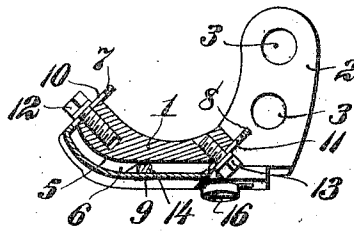


Fig. 7.

Witnesses:

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UNITED STATES PATENT OFFICE.

ANDREW EPPLER, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO UNITED SHOE MACHINERY COMPANY, OF PATERSON, NEW JERSEY, A CORPORATION OF NEW JERSEY.

WELT-GUIDE FOR SHOE-SEWING MACHINES.

1,030,721.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ANDREW EPPLER, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Welt-Guides for Shoe-Sewing Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to welt guides for shoe sewing machines.

Sewing machines especially designed for attaching the welt to the upper and insole of a lasted boot or shoe are commonly provided with a guiding device for properly positioning the welt with respect to the upper and insole and to the sewing instrumentalities, and particularly with respect to the needle, so that the latter shall invariably enter the groove which is usually formed in the surface of the welt. Heretofore it has been the practice to construct such guiding devices with the welt receiving aperture of fixed and definite depth and sufficiently large to receive the thickest welt it may be desired to sew upon the machine. When, however, a welt of less thickness is employed, the device becomes uncertain in operation and may fail to position the welt properly.

It is the object of the present invention to avoid these defects in prior devices and to provide a welt guide for sewing machines of the above described type which may guide and position with certainty and accuracy welts of different thickness.

With these objects in view the present invention consists in the welt guide herein-after described and claimed.

In the accompanying drawings which illustrate the preferred embodiment of the present invention, Figure 1 is a top plan view of the guide complete; Fig. 2 is a side elevation of the same, looking in the direction in which the welt travels; Fig. 3 is a bottom plan view; Fig. 4 is a front elevation; Fig. 5 is a vertical section on line 5-5 of Fig. 1 looking toward the right; Fig. 6 is a bottom plan view of the body portion of the guide with the adjustable guide pieces

removed; Fig. 7 is a vertical section on line 7-7, Fig. 1.

As shown in the drawings, the main or body portion 1 of the welt guide forming the subject of the present invention is substantially horizontal and is provided at its rear end with a vertical ear or lug 2 having the apertures 3 to receive the screws or other devices for attaching the welt guide to its supporting lever or slide. The front end of the body portion 1 is provided with a notch or recess 4 (see Fig. 1) through which the curved needle of the sewing machine passes in its movement toward and from the work. The bottom of the body portion is formed with a welt guiding surface 5, the front part of which is curved and the rear part straight, as shown in Fig. 7. This guiding portion 5 forms the upper wall of the welt receiving aperture 6 of the guide, one of the side walls and the bottom wall being formed by a sheet metal guide piece secured to the body portion of the guide. As shown in Figs. 2 and 7, this sheet metal piece has two parallel end portions 7 and 8, the former of which constitutes one of the side walls, as it were, of the welt receiving aperture, and an intermediate portion 9 of substantially the same shape as the guiding portion on the body portion of the guide. The ends 7 and 8 of the metal piece are provided with slots 10 and 11 respectively, through which pass the clamping screws 12 and 13 to secure these ends to correspondingly shaped engaging faces on the body portion of the guide. By this construction of the parts and method of attachment, the intermediate portion of the metal piece which forms the bottom wall of the aperture may be adjusted nearer to or farther from the guiding surface 5, thus enabling the guide to position with the same degree of certainty and accuracy welts of different thickness.

In order to adapt the guide for use with welts of different widths, an adjustable edge guide 14 is provided projecting from the slotted shank 15 and secured to the body portion by the set screw 16. This guide 14 constitutes the other of the end walls of the welt receiving aperture, and by adjusting this guide toward or from the end 7 of the metal piece, the effective width of the welt guiding aperture may be varied to adapt

the guide for use with different widths of welts.

Having thus described the construction and mode of operation of the invention, what is claimed is:—

5 A welt guide for shoe sewing machines, having, in combination, a body portion provided with a guiding surface curved transversely to the lead of the welt, and a corre-
10 spondingly curved guide piece attached to said body portion and arranged to be moved bodily nearer to or farther from said sur-

face in a direction substantially normal to said surface in proximity to the front end of the body portion to provide for welts of 15 different thickness, substantially as described.

In testimony whereof I affix my signature, in presence of two witnesses.

ANDREW EPPLER.

Witnesses:

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