

W. C. MEYER.  
SEWING MACHINE.

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1,050,558.

Patented Jan. 14, 1913.

Fig. 1.

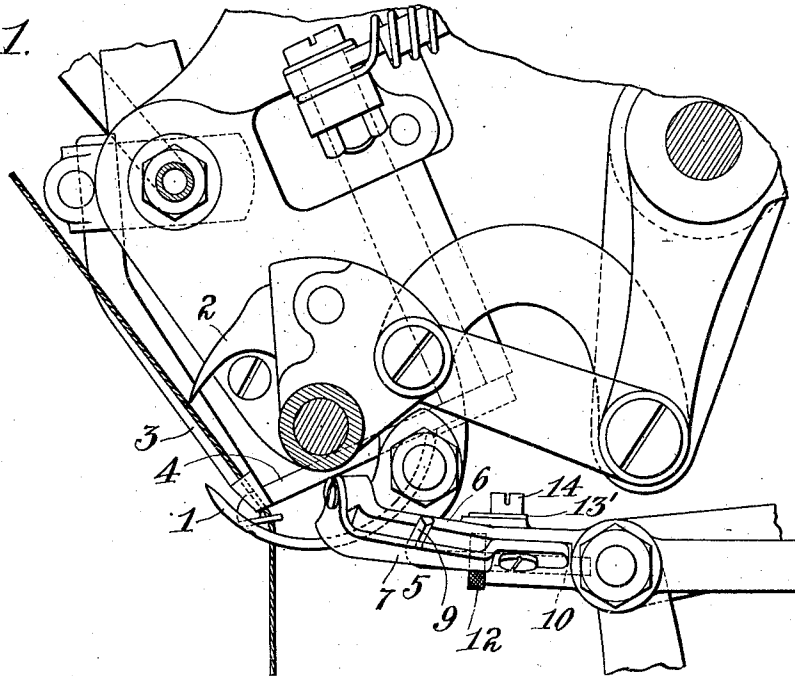


Fig. 2.

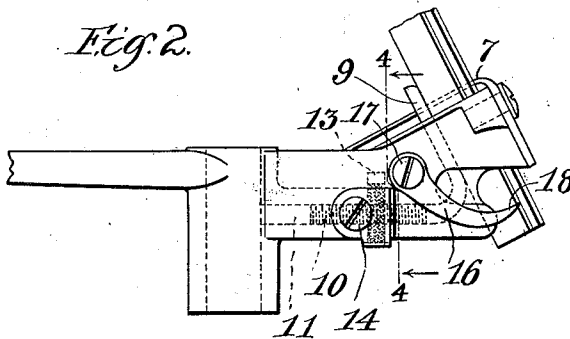


Fig. 4.

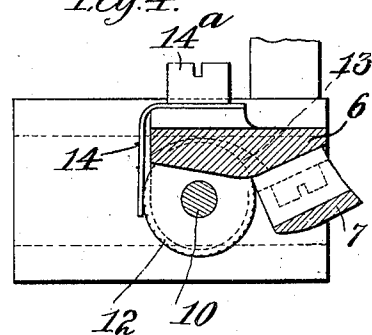
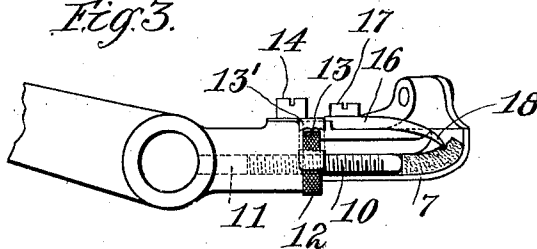


Fig. 3.



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# UNITED STATES PATENT OFFICE.

WILLIAM C. MEYER, OF BEVERLY, MASSACHUSETTS, ASSIGNOR TO UNITED SHOE MACHINERY COMPANY, OF PATERSON, NEW JERSEY, A CORPORATION OF NEW JERSEY.

SEWING-MACHINE.

1,050,558.

Specification of Letters Patent.

Patented Jan. 14, 1913.

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*To all whom it may concern:*

Be it known that I, WILLIAM C. MEYER, a citizen of the United States, residing at Beverly, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in 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 shoe sewing machines of the class which are used in the manufacture of shoes to secure together the welt upper and insole. Machines of this class are known in the art as welt sewing machines.

The object of the invention is to improve the construction and operation of welt guides for machines of the class referred to.

With this object in view the invention consists in the constructions, arrangements and combinations of parts hereinafter described, the advantages of which will be obvious to one skilled in the art from the following description.

In the drawings illustrating the preferred form of the invention, Figure 1 is a side elevation of a portion of a sewing machine embodying the invention, certain parts thereof being shown in section; Fig. 2 is a detail plan view of the welt guide detached; Fig. 3 is a side elevation of the parts shown in Fig. 2; and Fig. 4 is a sectional view taken on the line 4-4 of Fig. 2 looking in the direction of the arrows.

The machine, a portion of which is illustrated in the drawings, is a welt sewing machine of a type well known in the art. Only so much of the machine as is necessary for an understanding of the present invention has been illustrated in the drawings.

The stitch forming mechanism of the machine illustrated comprises a curved hook needle indicated at 1, an awl 2, a looper 3, and a thread arm.

The welt guide indicated at 5 comprises a body portion or frame 6 and a sheet metal plate or shield 7 secured to the frame, the frame and the shield being constructed and arranged in the usual manner to provide a welt guiding passage between them. The

forward welt engaging surfaces of the frame and the shield are curved so as to give the desired transverse curvature to the welt. At the end of the frame is a shoulder or abutment to engage the inner edge of the welt. The outer edge of the welt is engaged by a gage indicated at 9 which is arranged for adjustment widthwise of the welt guiding passage in order to guide welts of varying widths. In order to provide for the adjustment of the said gage, the gage is formed with a screw threaded shank 10, arranged to move in a guide bore 11 in the frame 6 and engaged by an adjusting nut 12 arranged in a slot 13 in the frame. The gage 9 may be adjusted in any desired position widthwise of the welt guiding passage by turning the nut 12. In order to hold the gage in adjusted position a bent leaf spring 14 is secured to the frame by means of a screw 14\* and is arranged to frictionally engage the milled peripheral surface of the adjusting nut 12.

A welt holding device for holding the free end of the welt is indicated at 16. This holding device consists of a finger pivotally mounted on the welt guide by means of a pivot screw 17 and provided at its forward extremity 18 with a welt engaging point. The point of the welt holding finger is preferably arranged to engage the groove in the welt adjacent the free end thereof and immediately in advance of the sewing point as illustrated in Fig. 2. At the beginning of the sewing of the insole after the welt is inserted in the welt guide with the free end of the welt projecting slightly in advance of the guide, the welt holding finger is moved forward by the operator to carry the point thereof into engagement with the welt. The free end of the welt is thereby held in position to be attached to the upper and insole. When the feed movement of the work has begun, the movement of the welt through the welt guide will cause the welt holding finger to move about its pivot in a direction to release the point thereof from engagement with the welt. The welt holding device is thus automatically operated to release the welt. It will be noted that when the welt holding device is in operative position in engagement with the welt that any movement of the welt in a direction to draw the free extremity

thereof out of the guide will cause the welt holding finger to more securely engage and hold the welt.

Having explained the nature and object of the invention and having specifically described the preferred form thereof, what is claimed is:

1. A welt sewing machine having, in combination, stitch forming mechanism, a welt guide comprising a frame and a shield, a gage for engagement with the outer edge of the welt having a screw threaded shank, and an adjusting nut threaded on said shank and operating in a slot in the frame for adjusting the gage widthwise of the welt guiding passage.

2. A welt sewing machine having, in com-

bination, stitch forming mechanism, a welt guide having a shield and a frame arranged to form a welt guiding passage between them, a gage arranged between the shield and the frame for engagement with the outer edge of the welt and having a screw threaded shank mounted in a bore in the frame, an adjusting nut engaging said shank and operating in a slot in the frame for adjusting said gage widthwise of the welt guiding passage and a spring frictionally engaging said nut to maintain the gage in adjusted position.

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