

W. GIBSON.
OPEN WELT GUIDE.

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930,469.

Patented Aug. 10, 1909.

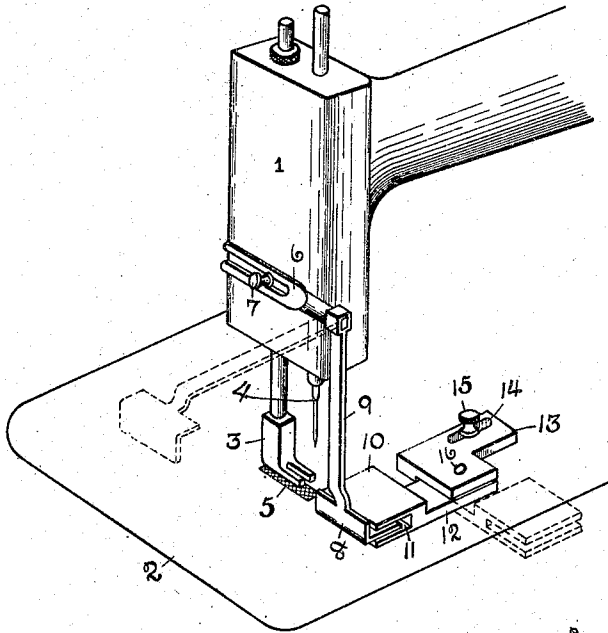


Fig-1-

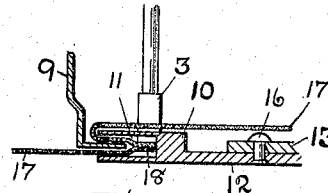


Fig-5-

Fig-2-

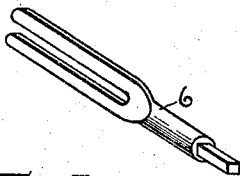


Fig-6-

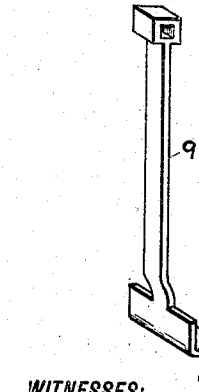


Fig-3-

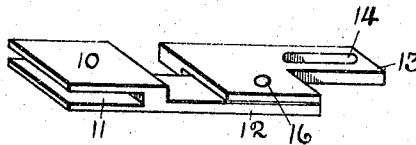


Fig-4-

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OPEN-WELT GUIDE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM GIBSON, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Open-Welt Guides, of which the following is a specification.

This invention relates to attachments for sewing machines and particularly to attachments for producing open welt seams on garments.

Some of the objects of my improvement are, simplicity of construction, fewness of parts, cheapness of manufacture, ease and rapidity of adjustment, ease of attachment, ease of adjustment for welt seams of different widths, accessibility, strength, and durability. These objects I attain by means of the device illustrated in the accompanying drawings in which—

Figure 1 is a perspective view; Fig. 2, a perspective view of the attachment-bar; Fig. 3, a perspective view of the guide-foot; Fig. 4, a perspective view of the guide-shoe; Fig. 5, a detail sectional view; and, Fig. 6, a sectional view of an open welt.

Similar reference numerals refer to similar parts throughout the several views of the drawings.

The sewing machine head 1, and the bed-plate 2, may be of the conventional form. Likewise the foot 3, the needle 4, and the feed 5, may be of the form found on any of the sewing machines now in use. An attachment bar 6 is provided, having a slot at one end and a square tenon, adapted to attach to the head 1 of a sewing machine at the opposite end. The attachment may be accomplished by means of a screw 7. A leg 9 extends downward from bar 6, which supports at its lower end an integral guide-foot 8 and is provided with a square mortise in its upper end, adapted to slip over and fit the tenon of bar 6. The guide foot 8 consists of a piece of sheet metal bent to form a right angle, having its free end in a plane parallel with the base-plate 2 of the sewing machine. A guide-shoe 10 is provided, having a horizontal slot 11 formed in one of its ends, adapted to receive the horizontal portion of foot 8, leaving sufficient space between its inner walls and the surface of the foot to allow the folds of the fabric to be guided to pass through freely. Shoe 10 is

provided with an extension 12, which in turn is pivoted in an attachment plate 13. Plate 13 is provided with a slot 14 through which it is secured to bed-plate 2 by means of a screw 15, the slot allowing adjustment of the plate and the shoe 10 toward or away from foot 8. Shoe 10 is pivotally connected with plate 13 at 16, and plate 13 is gaped in underneath to receive extension 12, so that the surfaces of shoe 10 and plate 13 are flush at the bottom and lie flat upon base-plate 2.

It will be understood that the slot in bar 6 allows adjustment of foot 8 backward and forward in relation to the presser-foot 3. The adjustment permitted by slot 14 provides for making welts of different widths. When the attachment is not in use, leg 9 is withdrawn from the tenon of bar 6, and replaced in the position shown by dotted lines in Fig. 1, and shoe 10 is swung around out of the way in a horizontal plane as shown by dotted lines in Fig. 1. When the attachment is in this condition the sewing machine may be used for making the preliminary seams.

The operation of my attachment will now be readily understood. The bar 6 may be left upon the head of the sewing machine, since it is not in the way for any ordinary operations. When the welt guide is required, shoe 10 is screwed down to bed-plate 2 and may be quickly adjusted by slot 14 for the width of the welt to be formed. The seam, having been previously formed on the fabric, as shown at 18, is slipped into slot 11, the upper layer of the fabric is folded over on the top of shoe 10, foot 8 is then slipped in between the layers of the fabric, against the seam 18, the mortise of leg 9 slipped on the tenon of bar 6, and the device is ready to operate. The stitch 20 is made by the sewing machine through the three layers of the fabric 17, just as is done with hemmers and other ordinary attachments. When another seam is to be made, foot 8 and shoe 10 are swung out of the way as previously described, the seam may be made on the sewing machine in the usual way, and the welt may be quickly formed by swinging back shoe 10 and foot 8 into position.

It will be understood that very little time and labor is necessary to put my attachment into and out of commission, and therefore it is not necessary to make different operations of the seams and the welts, where a great

deal of this work is done, but the seams and welts may be completed continuously while the garments are going through the hands of the operator once.

5 Having thus described my invention I claim—

1. An open welt guide for sewing machines, comprising an attachment-bar adjustably attached to the head of a sewing machine, a guide-foot adjustably applied to said attachment-bar, an adjustable guide-shoe applied over said guide-foot, an attachment-plate for said guide-shoe adjustably attached to the bed-plate of a sewing machine and pivotally connected with said guide-shoe.

2. An open welt guide for sewing ma-

chines, comprising an attachment-bar for attachment to the head of a sewing machine and provided at one end with a slot and at the other with a square tenon, a guide-foot for guiding fabric having a leg and a square mortise for adjustable attachment to said attachment-bar, a guide-shoe provided with a slot to receive a seam and said guide-foot between the layers of said seam, and means for pivotally and adjustably mounting said guide-shoe on the bed-plate of a sewing machine.

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Witnesses:

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