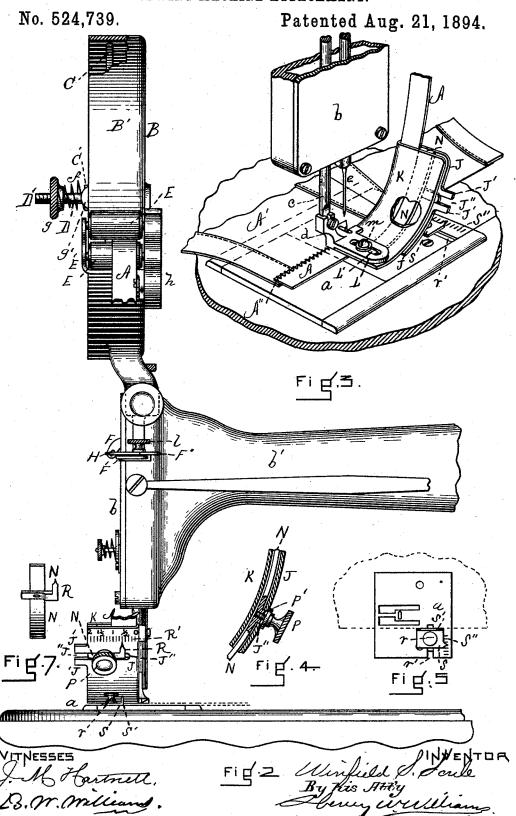
W. S. SOULE.

SEWING MACHINE ATTACHMENT. No. 524,739. Patented Aug. 21, 1894.

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UNITED STATES PATENT OFFICE.

WINFIELD S. SOULE, OF BROCKTON, MASSACHUSETTS.

SEWING-MACHINE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 524,739, dated August 21,1894.

Application filed March 3, 1894. Serial No. 502,266. (No model.)

To all whom it may concern:

Be it known that I, WINFIELD S. SOULE, a citizen of the United States, residing at Brockton, in the county of Plymouth and State of Massachusetts, have invented new and useful Improvements in Sewing-Machine Attachments, of which the following is a specification.

This is a device for enabling a sewing maro chine to stitch top facings on boots and shoes.

The nature of the invention is fully described below, and illustrated in the accom-

panying drawings, in which-

Figure 1 is an end elevation of a portion of a sewing machine provided with my improved attachment. Fig. 2 is a front elevation of the same, a portion of the band or top facing being represented as broken out. Fig. 3 is an enlarged perspective view showing the guide piece in position, and in operation upon a top facing or band on the inside of a gaiter boot. Fig. 4 is a detail in vertical section, a portion of the strip or bar N being represented as broken out. Fig. 5 is a plan of the work plate. Fig. 6 is a detail in plan of the adjustable loopeye between the reel and the guide piece. Fig. 7 is a detached view of the sliding guide plate between the two leaves of the guide piece.

Similar letters of reference indicate corre-

30 sponding parts.

a represents the work-plate, b the head of the machine, b' the arm, c the presser bar, d

the presser foot, and e the needle.

A represents a band or top facing which is 35 to be stitched as at A" to the portion A" of the boot by the aid of my attachment. This band or top facing A is wound upon a reel which consists of the circular shell B provided with the sides or rim B' and supported by the 40 head b, and the circular spider or disk C of size to fit into said shell, as shown in Figs. 1 and 2. This shell and spider or disk are hung upon a spindle D threaded on its outer end at D' (Fig. 2) which end projects sufficiently be-45 yound the spider C to allow a spiral spring f to be held against the hub C' of the spider by means of the nut g, thus causing the spider to be pressed against the edges of the coil produced by the band A inside the reel. A 50 set-screw g' can be provided to enter the hub of the spider and set against the shaft D.

As the band A leaves the reel, it passes be-

tween the rolls E supported in the frame E' which is sustained by the reel, and a suitable register h records the number of yards pass- 55 ing from the reel. After the band A has passed between the rolls, it passes down through a guide or loop-eye, which consists of a bracket F extending from the head b or foot of the reel and provided at its end with a 60 grooved way F'. See Figs. 2 and 6. Extending from this grooved way is a bent guidewire F", and a bent wire H of substantially the shape shown has its outer end adapted to overlap the outer end of the wire F", while 65 its inner end H' is broadened and provided with a slot H", such broadened portion lying in and being adapted to slide in the groove in the part F'. By means of a set-screw l, the wire H is moved back and forth so as to pro- 70 duce, in connection with the wire F", a loopeye adjustable to different widths of bands A.

From the loop-eye, the band A extends down into the guide-piece, shown in Figs. 1, 2, 3, and 4. This is formed on a curve, as 75 shown, and consists of two parallel or concentric walls, K J, joined at their inner ends by a connecting wall. In other words, the guidepiece is a plate bent back upon itself horizontally, but leaving a space between its two por- 80 tions, and then bent on a curve vertically. The lower portion of the part K of this guidepiece is adjustably secured by a screw m to a plate L, which is provided with a slot L'. This plate extends horizontally from the foot 85 d across the path of the band A. This band or facing A extends through the guide-piece onto the work-plate a beneath the plate L, and is held against the inner edge of the guidepiece,-i.e., against the curved wall which 90 connects the parts J K-by a curved guidestrip or bar N within the guide-piece J K, said guiding-strip N being adjustable horizontally, so as to be moved against the edge of the band, by means of the screw P which 95 screws into the strip N and has its shoulder P' bearing against the edges of the part J next a horizontal slot J" therein. (Figs. 2 and 4.) In order to lengthen the adjust ability of the strip N, the part J (and the slot J") is too extended at J', as shown in Figs. 2 and 3. An index R (Figs. 2 and 7) extends from the strip or bar N through the slot J" to a scale R' on the outer surface of the part J of the guide-

plate. Another indicator or gage-plate S, provided with the upturned lip S' bearing against the band A, (Fig. 5) is adjustably secured by a screw r and slot r' to the work-plate a, and 5 extends over the scale S" thereon. This determines the position of the lining or upper A' with relation to the work-plate and guide-

Having thus fully described my invention, 10 what I claim, and desire to secure by Letters

Patent, is-

1. In combination, the vertically curved guide-piece consisting of the two parallel or concentric walls K J joined at their inner ends

15 by a connecting wall, the correspondingly curved guide-strip N adjustable horizontally within said guide-piece, said guide-strip being provided with the screw P and said guide-

piece being provided with the slot J", the horizontal extensions J' made integral with 20 the guide-piece, and the gage-plate S provided with the upturned lip S' adjustably secured to the work-plate, said strip N being provided with an index R and said curved guide-piece being provided with a scale, substantially as 25 set forth.

2. The guide, consisting essentially of the bracket F provided with the grooved way F'. the bent wire F", bent overlapping wire H provided with the slotted thickened end H" for moving in the grooved way, and the screw l, substantially as set forth.

WINFIELD S. SOULE.

Witnesses:

WILLIAM G. MITCHELL, LOYED E. CHAMBERLAIN.