

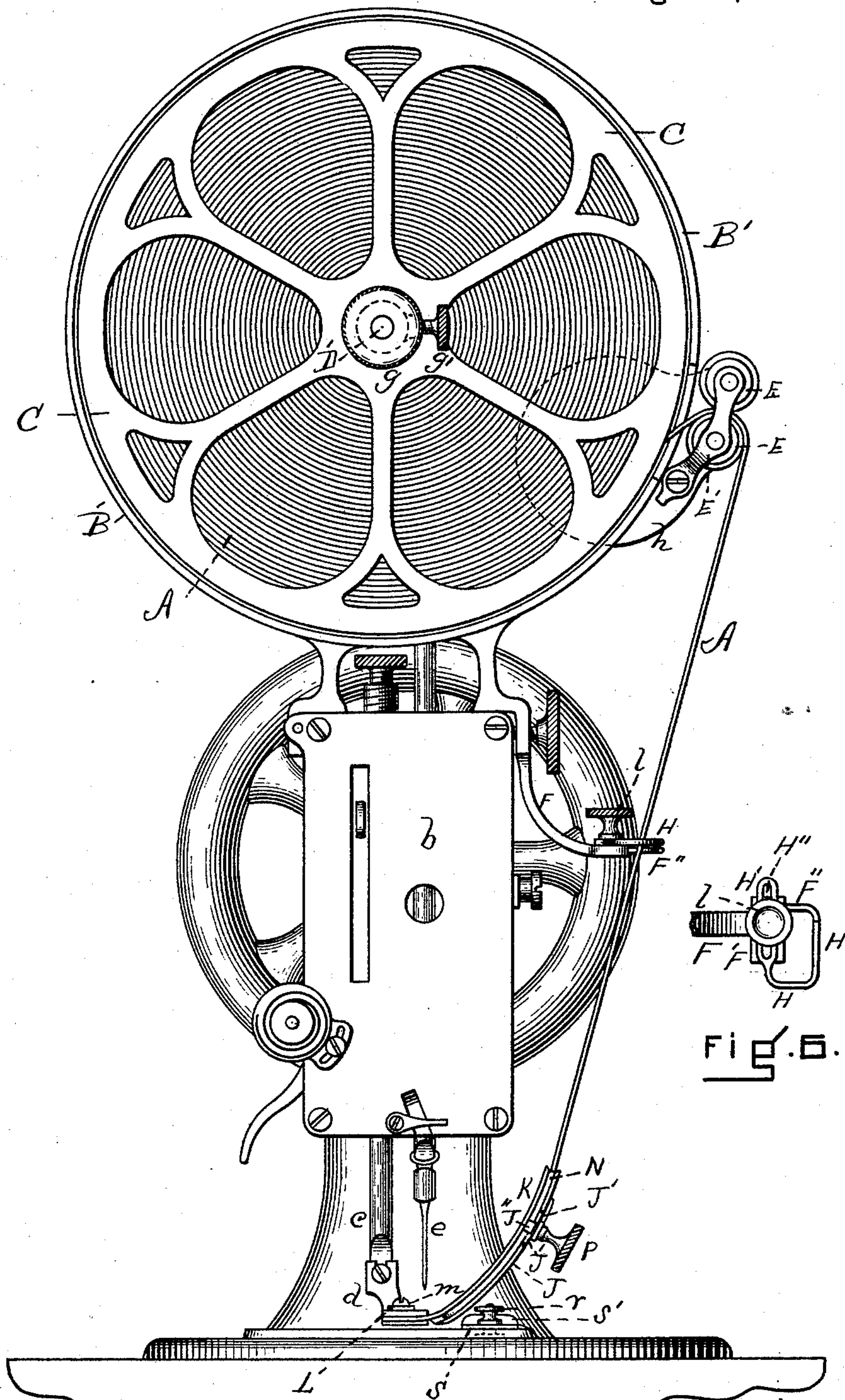
(No Model.)

2 Sheets—Sheet 1.

W. S. SOULE.
SEWING MACHINE ATTACHMENT.

No. 524,739.

Patented Aug. 21, 1894.



WITNESSES.

J. M. Hartnett.
D. W. Williams

FIG. 1.

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By his Atty.
Henry Williams.

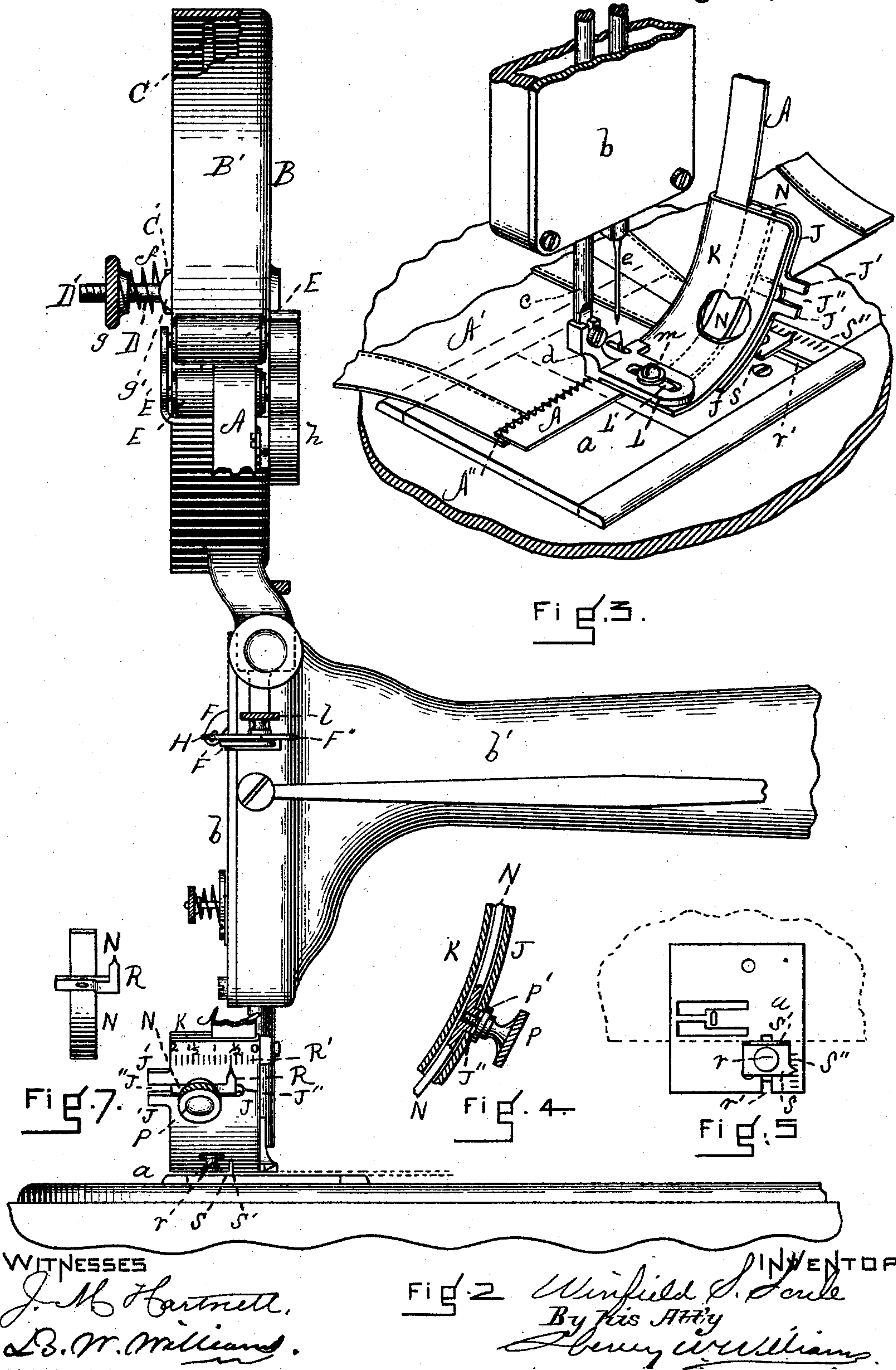
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FIG. 2

Winfield S. Soule
By his Atty
Henry Williams.

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 machine to stitch top facings on boots and shoes.

The nature of the invention is fully described below, and illustrated in the accompanying 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 loop-eye 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 corresponding 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 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 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 beyond 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 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 passing 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 grooved way *F'*. See Figs. 2 and 6. Extending from this grooved way is a bent guide-wire *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 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 produce, in connection with the wire *F''*, a loop-eye 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 shown, and consists of two parallel or concentric walls, *K J*, joined at their inner ends by a connecting wall. In other words, the guide-piece is a plate bent back upon itself horizontally, but leaving a space between its two portions, and then bent on a curve vertically. The lower portion of the part *K* of this guide-piece 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 *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 guide-piece,—i. e., against the curved wall which connects the parts *J K*—by a curved guide-strip 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 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 adjustability of the strip *N*, the part *J* (and the slot *J''*) is 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-plate.

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
30 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:

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