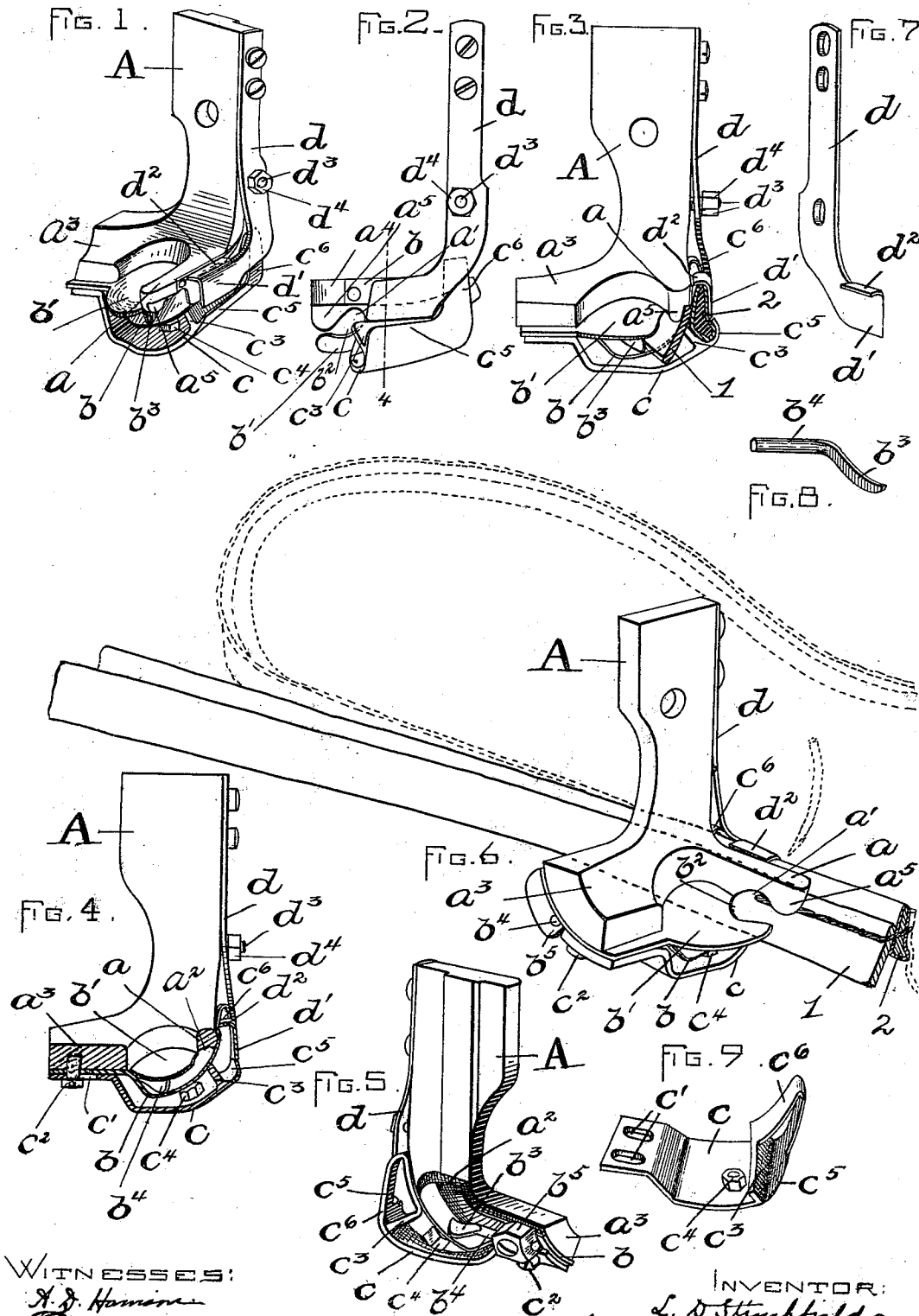


(No Model.)

L. D. STINCHFIELD.
WELT GUIDE FOR SEWING MACHINES.

No. 510,655.

Patented Dec. 12, 1893.



WITNESSES:
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UNITED STATES PATENT OFFICE.

LEWIS D. STINCHFIELD, OF BROCKTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO GEORGE E. KEITH, OF SAME PLACE.

WELT-GUIDE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 510,655, dated December 12, 1893.

Application filed April 7, 1893. Serial No. 469,431. (No model.)

To all whom it may concern:

Be it known that I, LEWIS D. STINCHFIELD, of Brockton, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Welt-Guides for Shoe-Sewing Machines, of which the following is a specification.

My invention relates to welt-guides for shoe sewing machines, and the object of my invention is to provide a shoeseaming machine with a guide capable of properly presenting to the action of the awl and needle an imitation cork-sole welt as well as the usual welt, and supporting these welts firmly against any lateral motion or "creeping" out of their proper path of movement.

To this end my invention consists in the construction and combination of parts as hereinafter described and claimed.

In the drawings, which accompany and form part of this specification: Figure 1 is a perspective view of the guide. Fig. 2 is a front elevation of the guide. Fig. 3 is a side elevation, showing the two welts in section. Fig. 4 is a section on line 4—4 of Fig. 2. Fig. 5 is a perspective view of the guide from the rear side. Fig. 6 is a perspective view of the guide from the rear side, showing the two welts passing through the guide, and the needle in broken lines. Figs. 7, 8 and 9 are details of different parts of the guide.

The same letters and numerals of reference indicate the same parts in all the figures.

A indicates the main casting, by means of which the guide is attached to the head of a shoe sewing machine, and parts of which cooperate with other parts attached thereto and hereinafter described, in forming the guideway for the ordinary welt, and another guideway for the imitation cork-sole welt. This casting has a toe-piece a , extending laterally therefrom, or in a direction at a right angle to the path of the curved needle, said toe-piece having a transverse recess a' in its base, for the passage of the needle; and a groove a^2 , extending from said recess along the upwardly-inclined base of the toe-piece. The casting has also a rearward extension a^3 , to the base of which is secured one end of a curved plate b , the other end of which extends under the

groove a^2 and is secured to the front side of the toe-piece. The said plate also comprises a concavo-convex portion b' , extending between the portions a^3 and a of the casting, and having a notch b^2 , forming, with the notch a' , an opening for the needle to pass through, as best illustrated in Fig. 6. The space thus formed between the base of the casting, the concavo-convex portion b' of the plate b , the under portion of said plate b and the groove a^2 , guides the welt l , one edge of which enters said groove and is held pressed against the bottom of said groove by a spring tongue or presser b^3 . This presser, as shown more clearly in Figs. 4 and 5, is flattened, and has a shank b^4 , which is clamped between the base of the extension a^3 and a block or clip b^5 screwed thereto. By loosening the screw-fastening of the block, the shank of the presser may be adjusted and secured again in different positions, in order to accommodate different widths of welts between said presser and the groove a^2 . The extreme end of the toe-piece is provided with a shoulder a^5 , to support the edge of the welt laterally on the side of the recess a' opposite the end of the groove a^2 .

To the under side of the plate b , under the extension a^3 , is secured the shank of a gage c , said shank having elongated holes c' for the attaching-screws c^2 whereby said gage may be adjustably secured in position. Said gage has an elongated shoulder c^3 , coming against the front side of the plate b , and a lug c^4 under the bottom of said plate and serving to sustain the same. The gage extends beyond the shoulder c^3 , as at c^5 , and at one end is provided with a triangular-shaped frame c^6 , whose base is the shoulder c^3 .

The imitation cork-sole welt 2, which I hereinafter term, for the sake of brevity, the supplemental welt, is shown in the drawings as consisting of a strip of leather, bent around a triangular filling; it therefore becomes triangular in cross-section. In the use of the guide in sewing, this triangular-shaped welt passes through the triangular frame c^6 , and the thick edge of the welt rests against the shoulder c^3 of the gage.

To hold the supplemental welt against the

front of the plate *b* and the shoulder *c*³, and also permit the use of welts of different thickness, I secure to one edge of the casting A a tongue or finger *d*, preferably of thin spring steel, the lower end being bent or curved, as at *d'*, to extend over the front of the toe-piece *a*, and being free to spring. The lateral portion *d'* of the spring-tongue has a flange *d*², to take over the upper edge of the welt. Said tongue may be adjusted as to tension by means of a screw *d*³, projecting from the main casting and extending through a slot in the tongue, and a nut *d*⁴ on said screw. By this means the tongue may be adjusted to different welts.

It will be seen that, with my improved guide, the two welts will be firmly held in position to be stitched together and to the shoe, and the guide is adjustable to welts of different sizes.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A welt-guide for shoe-sewing machines, comprising in its construction a body-portion having a lateral and a rearward extension, a curved plate fastened to the rearward extension and extending between the same and the lateral extension and forming with said lateral extension a guide-way for a welt, a gage

fastened beneath said curved plate and having a shoulder at the front portion, and a resilient tongue fastened to the front side of the body-portion and constructed to hold a supplemental welt against the front of the guide and against the shoulder of the gage.

2. A welt-guide for shoe sewing machines, comprising in its construction a body-portion having a lateral and a rearward extension, said lateral extension having a groove in the under side; a curved plate fastened to the rearward extension and extending between the same and the lateral extension and forming a guide-way for a welt; an adjustable spring-gage in said guide-way; a gage fastened beneath said curved plate and having a shoulder bearing against the front portion of the latter, and a triangular frame; and a resilient tongue fastened to the body-portion, and constructed to hold a supplemental welt against the front of the guide and against the shoulder of the last-named gage.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 25th day of March, A. D. 1893.

LEWIS D. STINCHFIELD.

Witnesses:

C. C. KING,

JOHN I. RACKLIFFE.