

(No Model.)

J. B. HADAWAY.

WELT BEVELING ATTACHMENT FOR SOLE SEWING MACHINES.
No. 549,125. Patented Nov. 5, 1895.

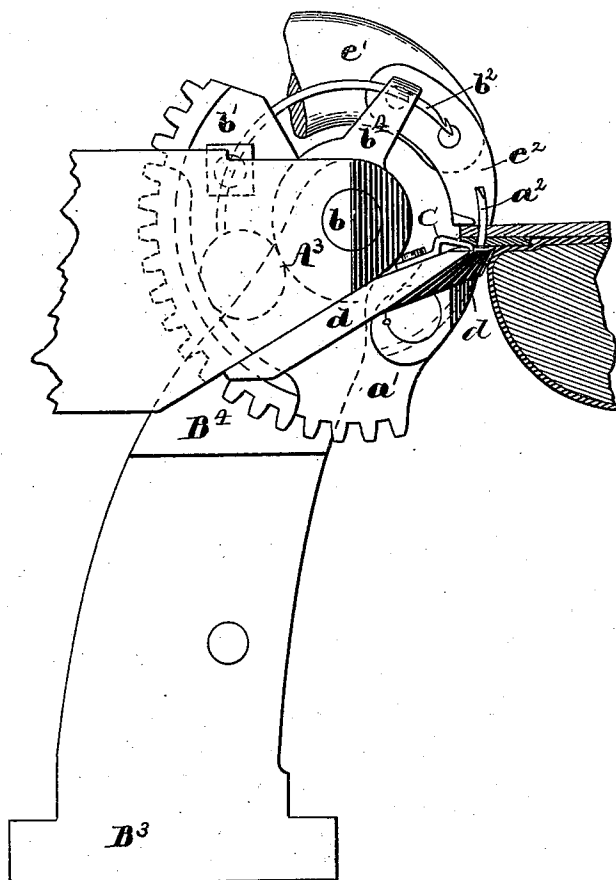


Fig. 1.



Fig. 5.

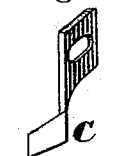


Fig. 4.

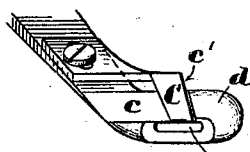


Fig. 2.

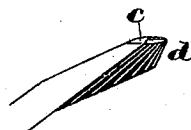


Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN B. HADAWAY, OF BROCKTON, MASSACHUSETTS.

WELT-BEVELING ATTACHMENT FOR SOLE-SEWING MACHINES.

SPECIFICATION forming part of Letters Patent No. 549,125, dated November 5, 1895.

Application filed June 24, 1895. Serial No. 553,827. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. HADAWAY, of Brockton, in the county of Plymouth and State of Massachusetts, have invented a new and useful Welt - Beveling Attachment for Sole-Sewing Machines, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to a welt-beveling attachment for sole-sewing machines; and it consists in certain novel features of construction, arrangement, and combination of parts, which will be best understood by reference to the description of the accompanying drawings and to the claims hereto appended, and in which my invention is clearly pointed out.

I have illustrated my invention as applied to a Goodyear sole-stitching machine, and have shown only so much of the sewing-machine as is necessary to illustrate the application of my invention.

The Goodyear machine referred to is the subject-matter of Letters Patent No. 473,870, issued to the Goodyear Shoe Machinery Company, as the assignees of Zachary T. French and William C. Meyer, dated April 26, 1892.

In another application of mine of even date herewith I have shown, described, and claimed an attachment to said Goodyear machine for beveling the welts of boot and shoe soles at the same time that the stitching is being done, in which a movable knife is used carried by the feed mechanism and doing the beveling or skiving by intermittent cuts while the feed mechanism is being retracted after having fed the work.

My present invention is for a modification in which the beveling or skiving is done by a fixed knife, as illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of so much of a Goodyear stitching-machine, with my invention applied thereto, as is necessary to illustrate the same. Fig. 2 is a plan of a portion of the work-support with my cutting-tool applied thereto. Fig. 3 is a partial side elevation of the work-support as altered to adapt it to receive my knife. Figs. 4 and 5 are respectively a plan and a side elevation of the knife detached from its support.

In the drawings, B³ is the feed-slide, having at one end the upright stand B⁴, which car-

ries in its upper end a stud, upon which is loosely mounted the awl-carrying segment a', to which is secured the awl a².

A³ is a portion of the fixed frame of the head of the machine, in which is set the fixed stud b, upon which is loosely mounted the needle-segment b', having secured thereto the curved and barbed needle b², and also there is loosely mounted on said stud the needle-guard b⁴.

The presser-foot lever e' is mounted upon a pivot set in some fixed portion of the machine and operated as in the Goodyear machine as now constructed, as described in my other application before cited, and has secured to its end the presser-foot e², as shown.

The arm A³ has secured thereto the work-supporting arm d, the upper surface of the forward end of which, as used in the sewing-machine, is slightly rounded, as shown at the right-hand end of Fig. 2; but to adapt it to receive my cutting-tool I form in the left-hand end of said surface the rabbet c, which extends toward the right nearly to the right-hand end of the needle and awl slot s, as shown in Fig. 2.

C is the cutter secured to the work-support d or to any other suitable fixed portion of the machine with its front end resting in the rabbet c, with its cutting-edge in close proximity to the right-hand end of said rabbet and having its cutting-edge c' inclined to a horizontal plane and oblique to the line of feed of the work, as shown in Fig. 2.

I have illustrated my devices as applied to a sewing-machine in which an awl-feed is used, but it is equally applicable to a machine in which a "clamp-feed, so called," is used, and therefore I do not wish to be limited in its use to any particular kind of feeding mechanism or any particular make of sewing-machine.

The operation of my invention is as follows: The several parts of the machine being in the positions shown in the drawings, the presser-foot is unlocked preparatory to feeding the work. The first movement after the machine is set in motion is to feed the work by a movement of the slide B³ toward the arm A³, in doing which the welt is forced against the cutting-edge of the cutter C and a section of a beveled shaving is cut thereby from the welt, so as to bevel said welt from the line of stitches to its outer edge. The work is then

clamped by the presser-foot and the presser-foot is locked, when the needle is passed through the work and withdrawn, thereby forming a stitch, during which time the feed mechanism is retracted and again engages the work preparatory to feeding the work another step corresponding to the length of a stitch, which operations are repeated until the sewing of the shoe is completed, a section of a beveled shaving equal to the length of a stitch being cut from the upper surface of the welt at each forward movement of the work.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination with the stitch forming mechanism of a sewing machine of a work support; a fixed knife located above said work support at the rear of and adjacent to the needle and awl slot in said support with its cutting edge slightly inclined to a horizontal plane, or to a plane parallel to the upper surface of the work support, and mechanism for feeding the work intermittently against the cutting edge of said knife.

2. The combination with the stitch forming mechanism of a sewing machine, of a work support provided with a vertical slot through

the same for the passage of the needle, and having a portion of its upper surface at the rear of said slot rabbeted or cut away to a lower level; a fixed knife located above said rabbet with its front end adjacent to said slot; and mechanism for feeding the work against the cutting edge of said knife.

3. The combination with the stitch forming mechanism of a sewing machine of a work support provided with a slot for the passage of the needle and having a portion of its upper surface at the rear of said slot rabbeted or cut away to a lower level; a fixed knife located above said rabbet with its front end adjacent to said slot and having its cutting edge inclined to a horizontal plane and oblique to the line of feed of the work; and mechanism for feeding the work against the cutting edge of said knife.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 21st day of June, A. D. 1895.

JOHN B. HADAWAY.

Witnesses:

N. C. LOMBARD,

WALTER E. LOMBARD.