

(No Model.)

G. A. BATES.
WELT GUIDE FOR SEWING MACHINES.

No. 419,239.

Patented Jan. 14, 1890.

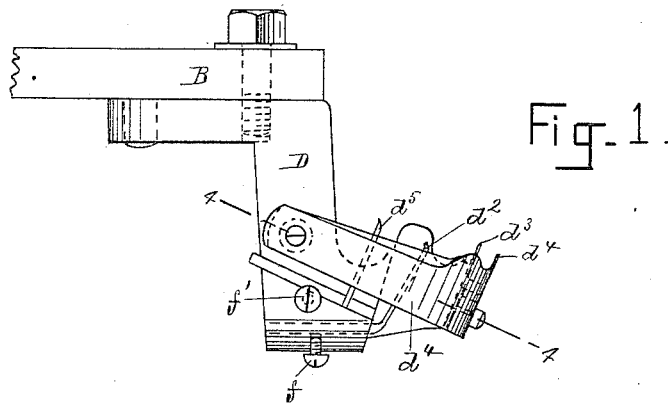


Fig. 1.

Fig. 2.

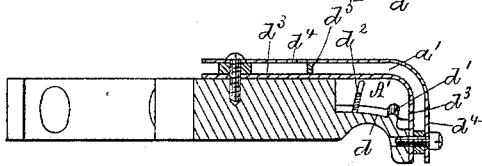
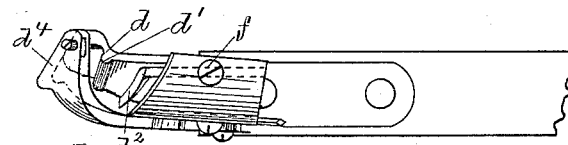


Fig. 4.

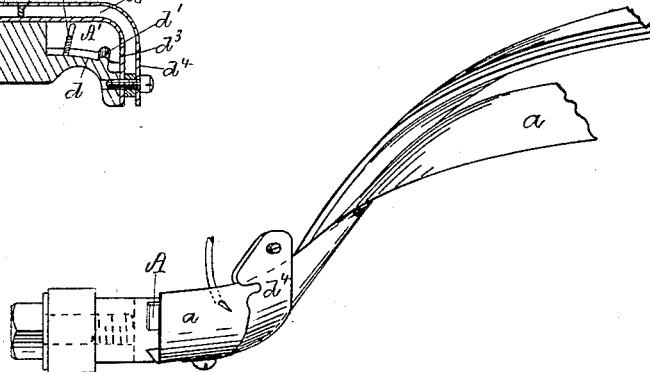


Fig. 3.

WITNESSES:

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GEORGE AUSTIN BATES, OF ROCKLAND, MASSACHUSETTS.

WELT-GUIDE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 419,239, dated January 14, 1890.

Application filed November 14, 1889. Serial No. 330,335. (No model.)

To all whom it may concern:

Be it known that I, GEORGE AUSTIN BATES, of Rockland, in the county of Plymouth and State of Massachusetts, have invented a new and useful Attachment for Welt-Sewing Machines, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof, in which—

Figure 1 is a plan, and Figs. 2 and 3 elevations, of my attachment. Fig. 4 is a section on line 4 4 of Fig. 1.

The object of my invention is to attach a welt and its casing in the manufacture of what are called "cork-sole shoes." This has heretofore been done by hand only.

In the drawings, A is the welt, and *a* the casing or binding. The welt is grooved on one side, the upper side as held when attached to the shoe, and the casing is applied between the welt and the upper, the shoe being first lasted in the usual way in making welted shoes. The shoe so lasted is presented by the operator to the welt-sewing machine in the usual way; but the usual welt-guide is removed from the machine and my new double guide substituted.

In Fig. 1 of the drawings, B is the lever of the welt-sewing machine, (the Goodyear welt-sewing machine, too well known to require description,) and D is the tang of my new double welt-guide attached to the lever B in the usual way. Like the welt guide in common use, it has a guide-passage A' for the welt A, two walls of which are formed by the forward end *d* of the attachment, which is provided with the rib *d'*, which enters the groove in the welt A, a third wall by the edge-guide *d²*, and a fourth wall by the cover *d³*, this welt-passage being the same as that in common use, except that I use a narrower welt, and also that the cover *d³* must be smooth and must also extend well beyond the welt-passage A' occupied by the welt A, for the outer surface of this cover *d³* forms one wall of a passage *a'*, which is occupied by the

casing *a*. Over this cover *d³*, one end of which extends far enough to be fastened to the tang D, I place a second cover *d⁴*, thereby forming passage *a'* between them for the casing *a*. The edge-guide *d⁵* extends between the covers *d³* and *d⁴*, its inner surface forming one wall of the passage occupied by the casing *a*. The edges of the covers *d³* *d⁴* are slotted and curved, as best shown in Fig. 3, as will be clear without description, being in this respect the same as the cover *d³* in general use.

In operation one end of the welt A is placed in the passage A' occupied by it, and one end of the casing *a* then put in its passage *a'* between the covers *d³* *d⁴*, the edge-guides *d²* and *d⁵* being adjusted by means of their respective set-screws *f f'*. A lasted shoe is then properly presented by the operator to the machine, the awl first passing through the welt A, casing *a*, and also through the upper and a part of the inner sole, precisely as in sewing on the ordinary welt. After welt A and its casing *a* are thus sewed to the upper and inner sole, the product is precisely the same in all respects as if the welt A and its casing *a* had been sewed on by hand, and the other operations to complete the shoe are in all respects the same as usual in making this kind of shoe.

What I claim as my invention is—

The double welt-guide above described, having the two passages A' *a'*, one for the welt A and the other for its casing *a*, arranged together, as shown, the welt-passage A', provided with the rib *d'*, the cover *d³* of the welt-passage forming the inner wall of the casing-passage, and each passage provided with its edge-guide *d²* *d⁵*, all substantially as described.

GEORGE AUSTIN BATES.

Witnesses:

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