

F. D. BALLOU.
Welt-Gages for Sewing-Machines.

No. 158,231.

Patented Dec. 29, 1874.

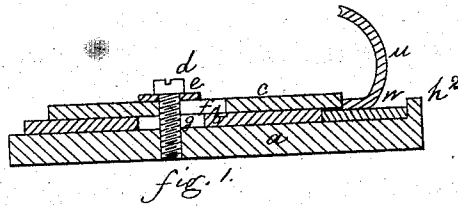


fig. 1.

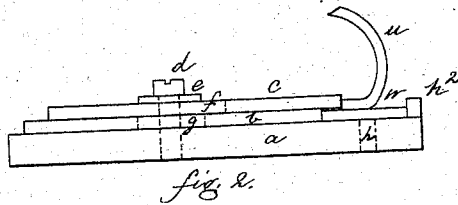


fig. 2.

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FRANCIS D. BALLOU, OF ABINGTON, MASSACHUSETTS.

IMPROVEMENT IN WELT-GAGES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **158,231**, dated December 29, 1874; application filed September 1, 1874.

To all whom it may concern:

Be it known that I, FRANCIS D. BALLOU, of Abington, Massachusetts, have invented a Welt-Gage Attachment to Sewing-Machines, of which the following is a specification:

This invention is intended to facilitate the attachment of welts and uppers in the manufacture of shoes. It consists in a series of guides applied near the throat of a sewing-machine, by which the welt-strip is continuously presented to the needle at a proper gage, and the upper applied to it at a proper gage, with great facility.

In the drawing, Figure 1 is a section, and Fig. 2 an end elevation, of this combination.

a is a plate, either the bed-plate of the machine or one applied to it specially for the purpose; and *h* is the needle-throat. A lip, *h*², is turned up at a proper gage from the throat *h* for the projection of the welt beyond the seam, uniting the welt *w* and upper *u*. A plate, *b*, adjustable to and from the lip *h*² by means of the slot *g* and clamping-screw *d*, serves as a

fixed guide for any width of welt and any interior projection of the same. A second plate, *c*, also adjustable to and from the same point by aid of the slot *f* and clamping-screw *d*, serves as the gage for the edge of the upper. The plates *b* and *c* are set in their proper relations and clamped to plate *a*. The welt feeds along without attendance, guided on both sides, and the upper is readily held against the edge of the plate *c*, and the stitches thereby set at a proper gage.

I claim as my invention, and desire to secure by Letters Patent—

In combination with the plate *a*, provided with the needle-hole *h* and lip *h*², the plates *b* and *c*, secured to and made longitudinally adjustable upon said plate, substantially as and for the purpose specified.

FRANCIS D. BALLOU.

Witnesses:

GEO. W. COPELAND,
HENRY A. BALLOU.