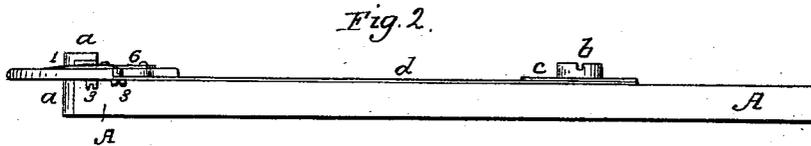
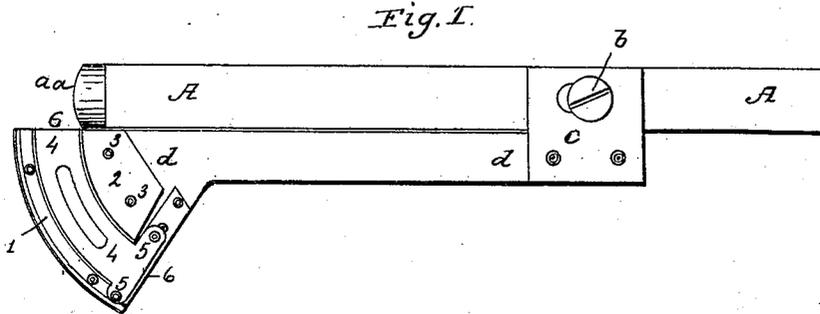


J. H. WALKER.
Welt Gage for Sewing Machines.

No. 42,810.

Patented May 17, 1864.



Witnesses:

J. H. Walker
at W. H. H. H. H.

Inventor:

J. H. Walker
By atty *A. B. Soughton*.

UNITED STATES PATENT OFFICE.

J. H. WALKER, OF WORCESTER, MASSACHUSETTS.

IMPROVEMENT IN WELT-GAGES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 42,810, dated May 17, 1864.

To all whom it may concern:

Be it known that I, J. H. WALKER, of the city and county of Worcester, and State of Massachusetts, have invented certain new and useful improvements in welt-gages to be used in connection with sewing-machines; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a top plan of the instrument, and Fig. 2 represents an edge view of the same.

Similar letters of reference in the separate figures denote like parts in both of the drawings.

The object and purpose of my invention is to make a welt-gage that will lie in the welt with certainty and regularity and yield to any such inequalities in the leather or other material to be sewed as may occur, and at the same time be adaptable to welts of varying widths and to work of varying size or thickness.

I am aware that welt-gages have been used; but they do not possess the accuracy and adaptability to various kinds of work that mine does.

My invention consists in combining and arranging the adjustable and spring throat through which the welt is fed up and laid into the seam upon a spring and adjustable bar, so that the feeder may accommodate itself to any and all varying of thickness in the material in which the welt is to be sewed, but not to yield in any other direction.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

The bar A is made quite rigid, and its end *a* is rounded and turned up to form a gage for the edges of the leather or other material to be sewed to be guided by, while the welt is laid in advance of the sewing. To this bar A, at *b*, is fastened a plate, *c*, so that it may be adjusted thereon by a slot and set-screw or otherwise to move it forward or backward.

To this plate *c* is fastened a spring-bar, *d*, extending forward, and having upon its forward end the throat guide or gage, through which the welt passes as it is laid between the two pieces to be sewed together and sewed in with them.

The throat guide or gage is made as follows: Two curved pieces, 1 2, are secured to the widened-out end of the spring-bar *d*, one of which, 2, should be made adjustable by set-screws 3, passing through slots in the spring-bar, so as to set it for welts of varying widths. Between these curved side pieces there lies a curved tongue, 4, fastened at one end only, as at 5, and its other free and elastic, so as to bear upon the welt as it is drawn in underneath it through the curved throat 6, and yield to any undue thickness in the welt. The object in curving this throat or guide is that it may not interfere with the feeding along of the boot-legs to be sewed or with the sewing mechanism or incommode the vision of the operator, and yet do its work just as well as though it were in line with the sewing mechanism.

The spring-bar *d* and plate *c* may be made in one piece, if preferred, and the bar should be thin enough to readily yield in a vertical line, so as to accommodate itself to the work to be done, and broad enough not to yield horizontally so as to be forced away from its proper working position.

Having thus fully described the object and purpose of my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

1. The spring-bar *d*, adjustably connected to the main bar A, substantially as and for the purpose described.

2. The combination of the spring-bar, the side guides, and the spring throat-piece 4, substantially as and for the purpose described.

J. H. WALKER.

Witnesses:

C. JILLSON,
TIM. R. SPEAR.