

(No Model.)

W. B. THAYER.  
SEWING MACHINE GUIDE.

No. 295,079.

Patented Mar. 11, 1884.

Fig. 1.

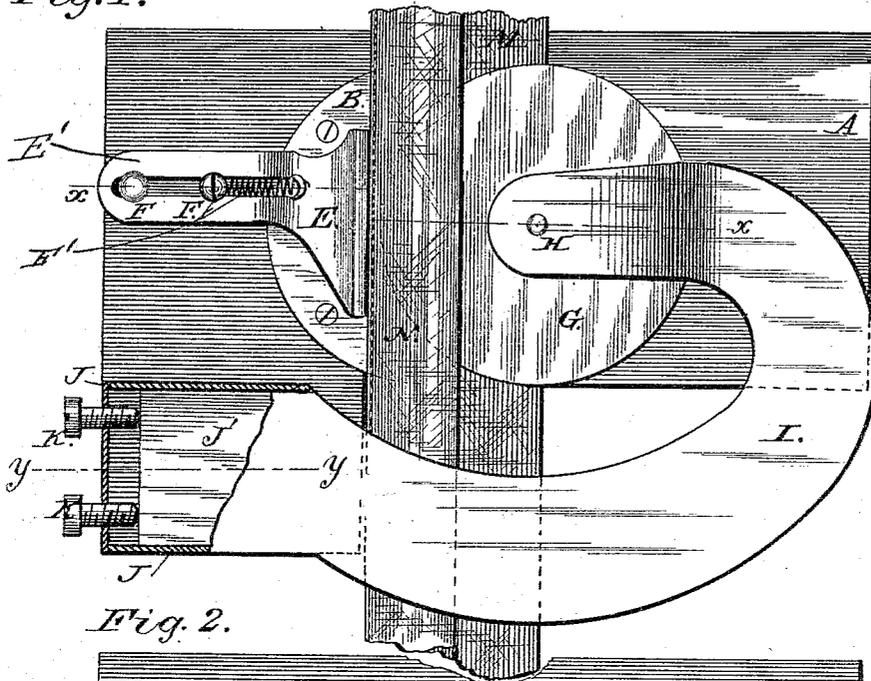


Fig. 2.

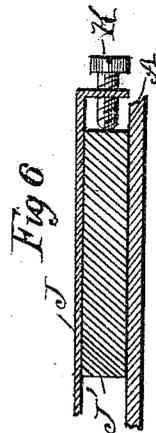
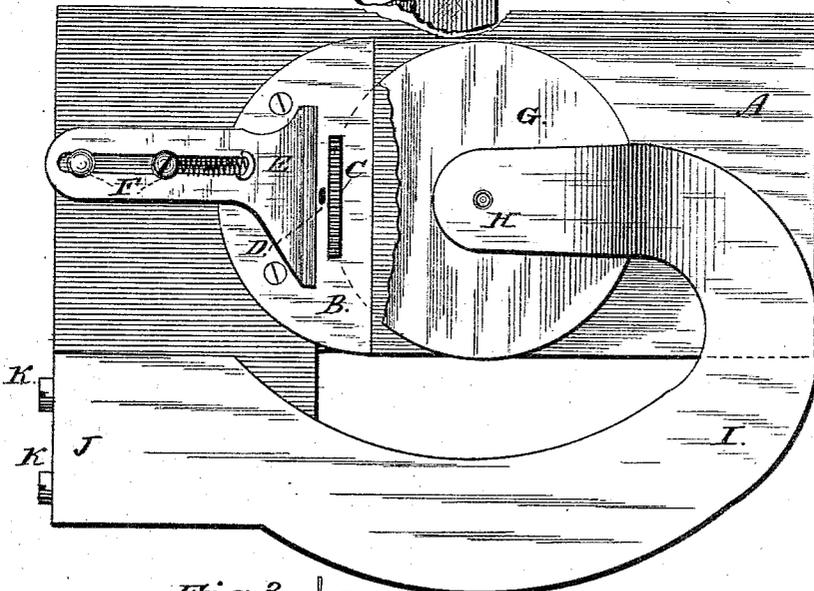
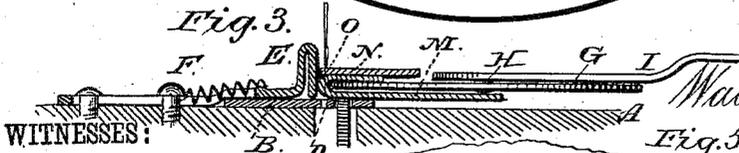


Fig. 3.



WITNESSES:

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Fig. 4.



Fig. 5.

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# UNITED STATES PATENT OFFICE.

WALES B. THAYER, OF BROCKTON, MASSACHUSETTS.

## SEWING-MACHINE GUIDE.

SPECIFICATION forming part of Letters Patent No. 295,079, dated March 11, 1884.

Application filed August 28, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WALES B. THAYER, a citizen of the United States, and a resident of Brockton, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Combined Gage and Guide for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to the adaptation of a sewing-machine for stitching together layers of leather, cloth, or other flexible material in such a manner as to produce a "blind stitch"—that is to say, the seam uniting the pieces of material is wholly concealed from view as to at least one face of the material at such fold or folds; and the object of my invention is to provide a rotary gage operating in conjunction with an adjustable spring-guide, which said rotary gage is adapted to work against the outside of the material.

My invention, while applicable to a variety of purposes, is specially adapted for the sewing of the foot-linings of boots or shoes, the rim of the rotary gage working against the outside of the leather of the boot or shoe with a minimum of friction, and in such a manner that the depth which the stitch is to take into the goods may be accurately determined and regulated.

In the accompanying drawings, Figure 1 represents a portion of the bed-plate of a sewing-machine provided with my improved attachment. Fig. 2 is a plan view of the same, with a portion of the rotary and adjustable gage-plate broken away to show the feed-opening and needle-hole in the throat-plate. Fig. 3 is a cross-section through line *x x* in Fig. 1. Fig. 4 is a perspective view of a portion of the material with the lining-piece attached. Fig. 5 is a cross-section through the same, and Fig. 6 is a sectional detail view on line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts in all the figures.

A denotes the bed-plate of the machine, and B the throat-plate or cloth-plate, through

which the feed works in the slot C, and which has the usual needle-hole, D.

E is a guide having a slotted portion, E', sliding adjustably upon set-screws F, passing through the slot into the bed-plate, and a spring, F', bears against the inner end of the slot in the guide and against one of the set-screws, allowing the guide to yield slightly.

G is a circular disk, made of spring-steel or similar material, and having a smooth rim or periphery. This disk is pivoted at its center H at the outer end of a bent plate, I, made, preferably, of steel, and formed with a box, J, which slides upon and is adjustable upon a block, J', fastened upon the bed-plate of the machine. Plate I J may be adjusted upon block J' by means of set-screws K, working in the rear end of box J and block J', so that the distance between the periphery of the rotary disk G and the guide E may be regulated at will by simply adjusting the screws K.

From the foregoing description, taken in connection with the drawings, the operation of my combined gage and guiding attachment for sewing-machines will readily be understood without requiring extended explanation.

In Fig. 3 I have shown the leather M doubled over the rim of the rotary gage-disk G, with its folds bearing against guide E, which should have sufficient spring to press the material up against the rim of the rotary disk. N represents the lining-piece, which is placed over the fold on the upper side of the disk, and as the material is fed past the needle a row of blind stitches, O, is formed, connecting the lining-piece with the goods at the fold. Besides serving as a guide and gage, disk G operates to press the material down firmly upon the bed-plate of the machine, and by journaling the disk at the inner end of the curved arm or plate I said arm or plate, with its rotary disk, will be out of the way of the material operated upon. By adjusting the screws K the distance between the periphery of the rotary disk G and spring-gage E may be regulated according to the width which the seam is to have, and which, of course, will depend upon the thickness of the leather or other material to which the lining is to be attached.

I am aware that gages have been made be-

fore, adapted to be used with a sewing-machine, in the form of an attachment for the purpose of uniting layers of flexible material by blind stitches; but all attachments of this class with which I am acquainted work against the inside of the material instead of the outside, which makes it impossible for the operator to make his seam or row of blind stitches as even and regular as by my attachment.

It will also be seen that my attachment is used without making any changes in the construction either of the feed or of the presser-foot of the machine, and that the attachment can be placed readily upon any class of sewing-machines simply by properly fastening block J' upon the bed-plate.

Having thus described my invention, I claim

and desire to secure by Letters Patent of the United States—

In a sewing-machine, the combination of the bed-plate A, having fixed bearing-block J', throat-plate B, having the feed-slot C and needle-hole D, adjustable spring-guide E, bent arm or plate I, provided with the box J, rotary gage-disk G, and adjusting-screws K K, all constructed and combined to operate substantially in the manner and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

WALES B. THAYER.

Witnesses:

MARK EDSON,  
ALFRED WASHBURN.