

W. B. Bartram.
Sewing-Mach. Guide.

N^o 83592.

Patented Nov. 3. 1868
Fig. 2.

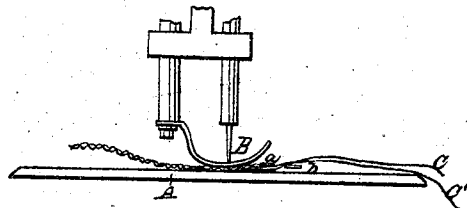


Fig. 1.

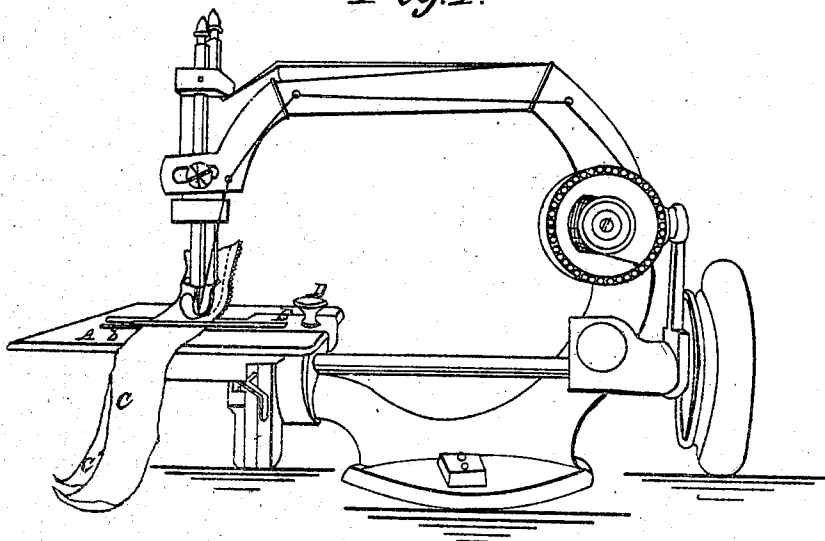


Fig. 3.

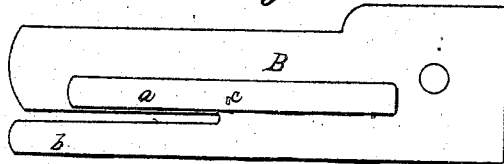
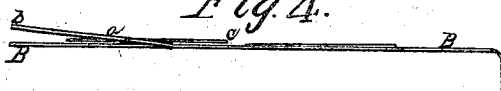


Fig. 4.



Witnesses

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WALKER B. BARTRAM, OF DANBURY, CONNECTICUT.

Letters Patent No. 83,592, dated November 3, 1868.

IMPROVEMENT IN GATHERING-ATTACHMENT FOR SEWING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WALKER B. BARTRAM, of Danbury, in the county of Fairfield, and State of Connecticut, have invented a new and improved Gathering-Apparatus for Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the drawings, and the figures and letters of reference thereon, accompanying this specification, and forming part of the same.

Figure 1 of the said drawings is a view of my invention attached to and in use upon a sewing-machine.

Figure 2 shows an end view of the apparatus, as attached in proper position to the cloth-plate of the machine.

Figures 3 and 4 are vertical and horizontal projections of the apparatus detached from the machine.

Similar letters of reference indicate like parts in the several drawings.

My invention consists in the combination and arrangement of a series of flexible metallic blades for holding and guiding two strips or pieces of cloth in such manner, in a sewing-machine, that the under strip shall be fed along to the needle faster than the upper, so that, when the two are united together by the thread, the lower strip will form a series of gathers, securely attached to the upper strip by the stitches formed by the machine.

To enable others skilled in the art to make and use my invention, I will describe its construction and operation.

The principal blade of the attachment is formed at one end into two blades, B b, of unequal width, by having a slot cut into it, of sufficient width to allow the material to pass through it, as shown in fig. 3.

The other end of the blade is provided with a screw-hole for the admission of a clamp-screw, to secure the apparatus to the machine.

The upper blade, a, is riveted or otherwise secured to the blade B, at one end, with its front edge nearly on a line with the rear edge of the slot.

This blade, a, is curved, to raise it from the surface of the lower blade, so as not to bear upon the material at the pin c; its point, however, is bent down so as to press on the blade beneath it. It acts to keep the edge of the upper strip of cloth up against the guide-pin c, as the material is advanced by the feeding-mechanism.

The blade b is bent or sprung up at its outer end, as shown in fig. 4, to keep the edge of the lower strip, that is drawn over it and under the blade B, up against the end of the slot.

The guide-pin c, secured to the blade B, being on a line with the end of the slot, guides and keeps the edge of the strip against it, the same distance from the line of stitching as the edge of the lower strip is kept.

As the position of this pin is changed with regard to the needle, as it is placed nearer to or farther from the same, so will the line of sewing be made either closer to or farther from the edge of the material. For this purpose, the attachment may be made adjustable, by constructing it with a slot in the place of the screw-hole, or by any other equivalent means that may suggest itself.

The attachment being properly fastened to the plate of the machine, the under one of the two strips of material is passed through the slot or opening between the blades B b, and under the blade B, between it and the plate of the machine. The upper strip is passed under the spring-blade a, between it and the blade B. The presser-foot of the machine is brought down on the material, and the machine put in motion.

It will be obvious that, as the feed acts upon the goods, the lower strip, C', will be fed along faster than the upper one, C, as the blades between which this strip passes will tend to hold the strip back, and retard its movements; consequently, the lower strip will be sewed to the upper in a gathered condition.

Having thus fully described my invention, I will state what I claim, and desire to secure by Letters Patent.

I am aware that a separator has been used, to part two strips or pieces of material, in ruffling-machines, and I therefore do not claim such separator; but

I claim the within-described gathering-attachment for sewing-machines, composed of three elastic blades or plates, B b a, all arranged relatively to each other, as shown, and constructed to guide and give the required pressure to the strips of material to be gathered, as described and specified.

WALKER B. BARTRAM.

Witnesses:

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