

F. G. BUSCHMEIER.

Quilting Guides for Sewing-Machines.

No. 145,841.

Patented Dec. 23, 1873.

Fig. 1

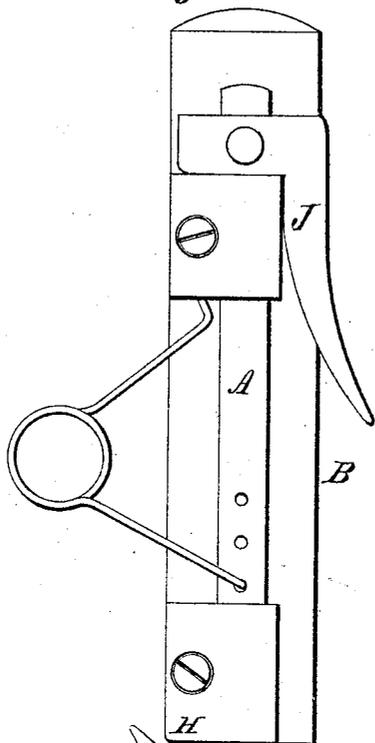


Fig. 3.

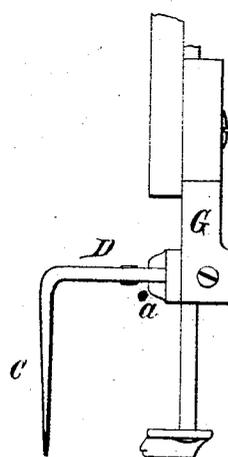
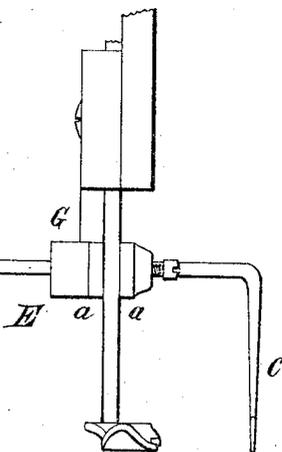
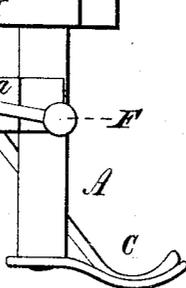


Fig. 2.



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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN QUILTING-GUIDES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **145,841**, dated December 23, 1873; application filed September 16, 1873.

To all whom it may concern:

Be it known that I, FRANK G. BUSCHMEIER, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Quilting-Guide for Sewing-Machines; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a side view of the device embodying my invention and connected parts of the sewing-machine. Fig. 2 is a front view thereof. Fig. 3 is a rear view thereof.

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

This invention relates to an attachment to a sewing-machine for guiding fabric or articles while being quilted. It consists in an arm at one end of an axial rod, and a weighted piece or lever at the other end thereof. It also consists in mechanism for raising the guide.

Referring to the drawings, A represents the bar of a presser-foot of a sewing-machine, the same being supported and guided on an arm, B, or portion of the frame of the machine, as is well known. C represents an arm, which extends transversely from, and is attached to or forms part of, a graduated rod, D, which is longitudinally arranged and passes through a clamp, E, secured to the bar of the presser-foot, said rod having an axial movement in the ears or bosses *a*, whereby the arm C is permitted to rise and fall. At the end of the rod D, opposite to the arm C, I secure a weighted arm, F, which projects from the rod in the same direction as the arm C, so that its weight will act on the latter and cause it to be depressed or lowered. To the rod D, between the ears *a* of the clamp E, there is secured a cam or tappet, G, which projects upwardly, and is adapted to be brought in contact with the guide of the presser-foot bar or

a projection on the arm B, to which the bar is attached. (See H, Fig. 1.)

The operation is as follows: After the first row of stitches has been made the fabric or article is shifted so that said row is in line with the arm C. The machine being again started, another row is then stitched, the arm C moving easily on the first-stitched row and serving as a guide to the fabric. The weight F keeps the arm C to its work, but permits it to rise, owing to any inequalities in the fabric or article to be quilted without material pressure thereon.

When the work is completed or requires removal, or for any cause the arm or presser-foot, or both, are to be elevated, the lever J of the presser-foot bar is operated so as to raise the latter. The tappet or cam G is thus brought in contact with the part H and forced outwardly, thus rotating the rod D and causing the arm C to move upwardly in the arc of a circle, whereby the arm and presser-foot are raised and held clear of the fabric as long as the presser-foot bar is elevated. On properly operating the lever J the presser-foot is lowered and the cam G released from the part H. The weight F then causes the rotation of the rod D and the tappet or cam, and the return of the arm C to its original position on or over the fabric. The graduated rod D is movable longitudinally in its bearings, and is therefore adjustable to regulate the distances between the rows of stitches.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The arm C, rod D, and weighted lever F, combined and operating substantially as and for the purpose set forth.

2. The cam G, attached to the arm C and operating to raise the latter when the presser-foot bar is elevated, substantially as set forth.

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Witnesses:

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