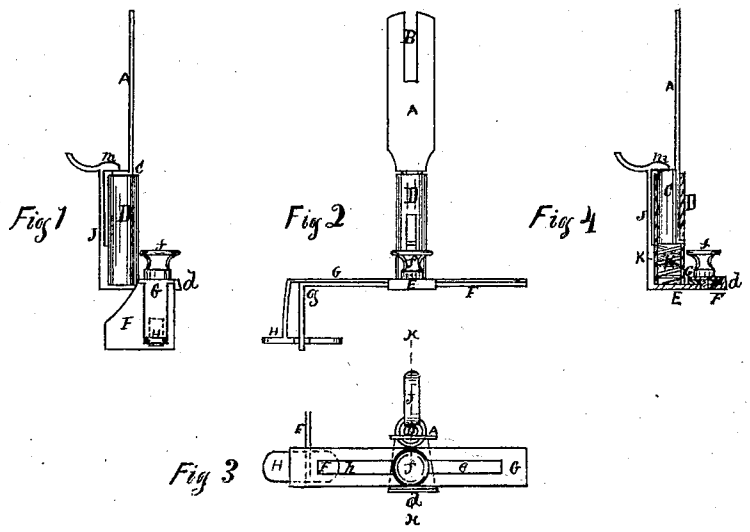
JOHN C. JENSEN.

Improvement in Attachment for Sewing Machine.

No. 124,493. Patented March 12, 1872.



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124,493

UNITED STATES PATENT OFFICE.

JOHN C. JENSEN, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 124,493, dated March 12, 1872; antedated March 2, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, JOHN C. JENSEN, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Combined Edge-Stitching Gauge and Quilting Attachment to Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is an end view of my said attachment; Fig. 2 is a front elevation of the same; Fig. 3 is a plan or top view; and Fig. 4 is a vertical transverse section, showing those parts which are at the right hand of the line *x x*, drawn across Fig. 3.

Similar letters of reference indicate like parts in the several figures of the drawing.

My invention relates to a combined edge-stitching gauge and quilting attachment for sewing-machines which is secured to the arm of the machine, whereby the fabric is moved in a direct line at a uniform distance from and parallel to its edge; and consists in the employment of a slotted plate, upon which is secured a hollow tube carrying an adjustable horizontal arm, to which is attached a spring carrying the presser-foot, the said arm being bent in such a manner as to bear against the edge of the fabric simultaneously with the downward pressure of the presser-foot, the whole of which will be more fully understood from the following description.

In the drawing, A represents a metal plate, the upper end of which is provided with a vertical slot, as shown at B. The lower portion of the said plate is made round, as shown at C, upon which portion is loosely fitted a hollow tube, D, so arranged as to admit of a free and easy vertical movement thereon. Firmly affixed to the lower end of the said tube is an arm, E, which extends horizontally forward, slightly beyond the side of the tube, and is bent upward, forming a shoulder, as shown at *d*. F is a horizontal arm, which is provided with a longitudinal slot or mortise, *e*, as shown in Fig. 3, and is secured upon arm E in such a manner as to admit of a longitudinal movement, and is firmly secured at any adjusted point by means of a set-screw, *f*, passing through said slot or mortise. One end of the said arm F is bent downward to a right angle to its plane, as shown at *g*, and is provided with a mortise, as shown by dotted lines, Fig. 3. The lower end of this arm is so arranged as to come in contact with the edge of the fabric, thereby forming a guide, by which the line of stitch is formed at a uniform distance from and parallel to the edge of the fabric. Affixed upon the upper surface of the said arm F is a spring, G, also provided with a longitudinal slot or mortise, *h*, through which the said set-screw passes. One end of said spring is also bent downward to a right angle to its plane, and is firmly secured to a metal plate, H, which forms the presser-foot. This plate is so arranged as to pass through the mortise formed in the lower end of arm F, as shown in Fig. 2, by which means the presser-foot is prevented from moving laterally. Firmly affixed to the outer side of tube D is a spring, J, the upper end of which is bent to a horizontal position, as shown at *m*, and is so arranged as to engage the upper end of the lower portion C of plate A, by which means the presser-foot is secured in a fixed position when raised from the fabric. K is a coiled spring, which is secured within tube D between the upper surface of arm E and the lower end of portion C of plate A, by which means the presser-foot is secured upon the fabric when spring J is disengaged.

In using this example of my invention, plate A is secured to the arm of the Ætna sewing-machine, and may be adjusted so as to be attached to any sewing-machine, by means of a set-screw passing through slot B, which brings the lower end of arm F against the edge of the fabric, thereby forming a gauge or guide for the same, by which means the line of stitch is formed at a uniform distance from and parallel to its edge, the fabric being secured in position by plate H resting upon its upper surface in the usual manner.

It will be observed, by reference to the draw-

ing, that arm F and spring G are so arranged as to admit of being moved in the direction of their length, so as to admit of forming the line of stitch at any desired distance from the edge of the fabric.

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

1. The combination of plate A, tube D, springs J and K, all arranged to operate substantially as and for the purpose described.

2. In combination with plate A, tube D, springs J and K, the adjustable arm F, spring G, and presser-foot H, substantially as and for the purpose described.

The foregoing specification of my invention signed by me this 23d day of June, A. D. 1871.

JOHN C. JENSEN.

Witnesses:
N. C. GRIDLEY,
N. H. SHERBURNE.