J. V. D. ELDREDGE.

Hemmer for Sewing Machines.

No. 101,988. Patented April 19, 1870.

Figure 1—

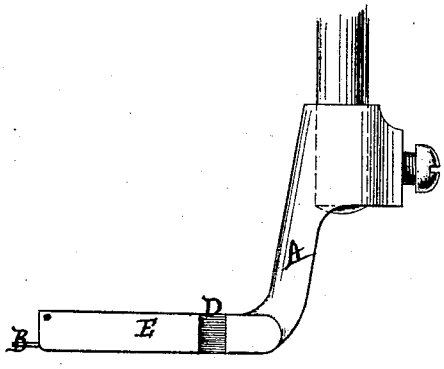


Figure 2—

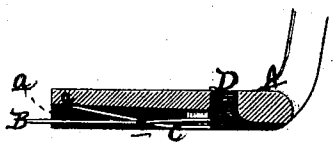


Figure 3—

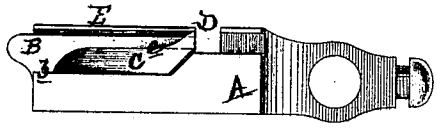


Figure 4—

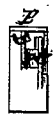


Figure 5—


ATTEST:

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# United States Patent Office.

JOHN V. D. ELDREDGE, OF DETROIT, MICHIGAN.

*Letters Patent No.* 101,988, *dated April* 19, 1870.

## IMPROVEMENT IN HEMMER FOR SEWING-MACHINES.

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

*To whom it may concern:*

Be it known that I, JOHN D. V. ELDREDGE, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Hemmers for Sewing-Machines; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a side elevation of my device.

Figure 2 is a side elevation, with the side spring removed.

Figure 3 is a plan of the bottom.

Figure 4 is an end view of the front.

Figure 5 is an end view of the rear.

Like letters indicate like parts in each figure.

The nature of this invention relates to an improvement in sewing-machine hemmers, so that any seams in the garment will readily pass through without the necessity of stopping the machine, or raising the presser-foot, to allow the seam to pass.

It consists in so arranging a series of guiding-springs as to afford an elasticity three different ways; that is to say, an elasticity upward, downward, and sidewise, thereby enabling the operator to run over seams as rapidly as upon any other portion of the work.

In the accompanying drawings—

A represents a presser-foot, in the under side of which is cut a recess, *a*, within which the springs B and C operate, the former being secured to the presser-foot at *b*, and the latter at *c*, and their points extending backward to the vertical channel D, which is cut through one side of the presser-foot, as shown, (and through which the needle works,) and curved so that the point of the spring B will rest above the point of the spring C at said channel, the two springs crossing each other at *e*.

The hem is inserted between the points of these springs, and the bends thereof continually turn the hem in the passage of the fabric.

Another spring, E, is secured to the side of the presser-foot, its lower edge being upon a plane with the bottom of the said presser-foot. This spring is secured near the front of the presser-foot, and extends backward, terminating at the channel D, and, in the passage of a seam in the fabric, gives at its point laterally, retaining the hem in its position in the lap of the springs B and C.

What I claim as my invention, and desire to secure by Letters Patent, is—

In sewing-machine hemmers, the spring E, for the purpose of securing a lateral elasticity, substantially as herein described.

Also, in combination therewith, the springs B and C, and presser-foot A, when constructed, arranged, and operating as and for the purpose herein set forth.

JOHN V. D. ELDREDGE.

Witnesses:

H. S. SPRAGUE,

JAS. I. DAY.