H. C. YOUNG.

Sewing-Machine Attachment.

No. 93,266. Patented Aug. 3, 1869.

Fig: 1.

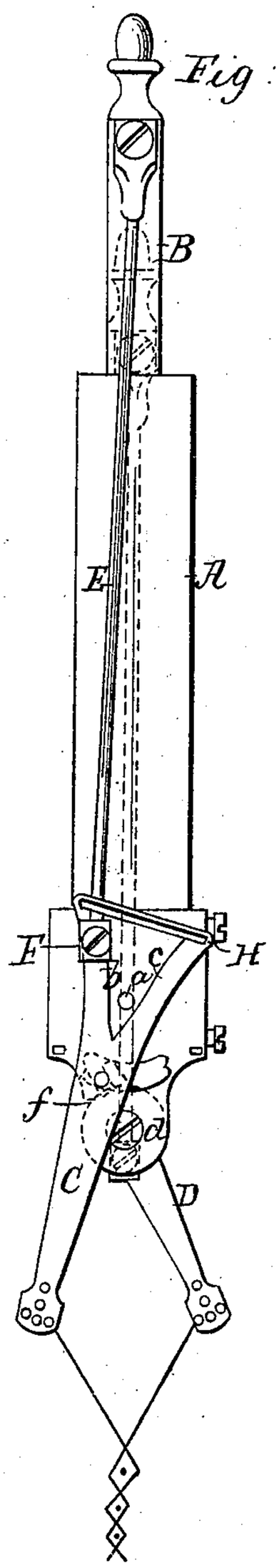


Fig: 2.

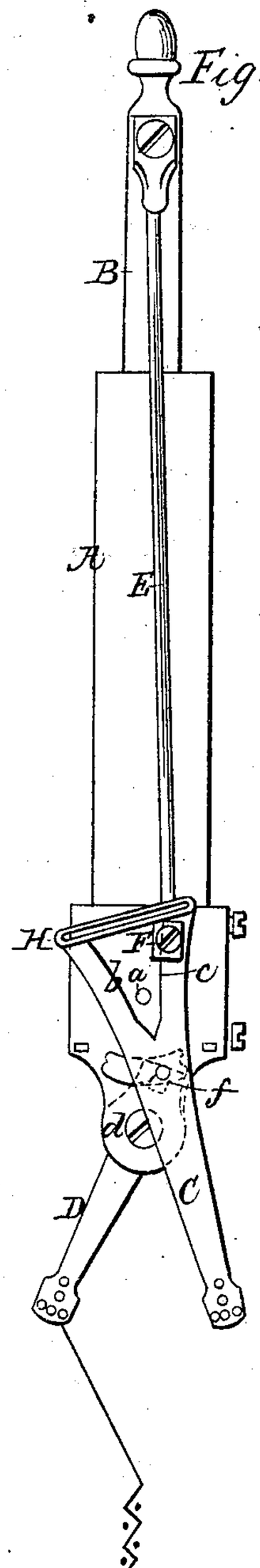
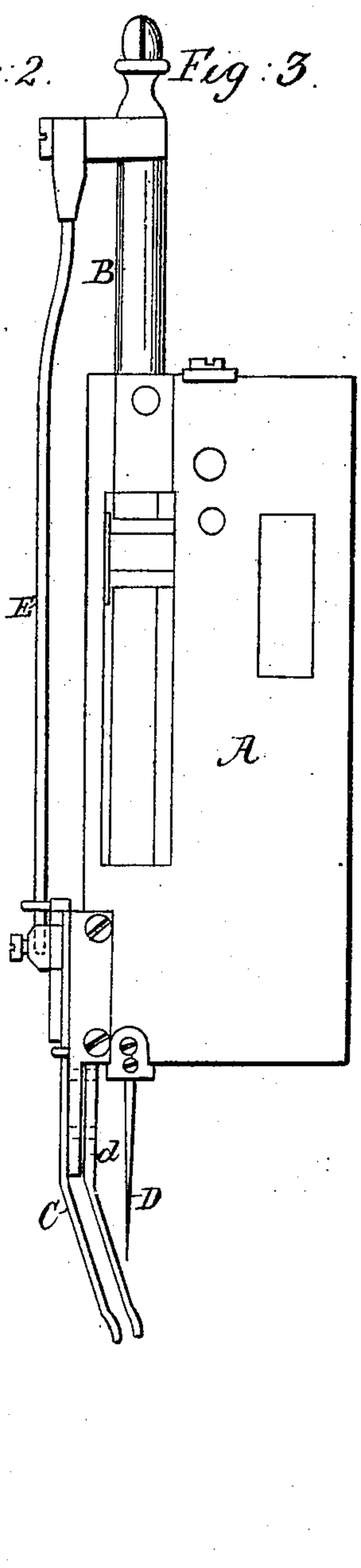


Fig: 3.



Witnesses

A. J. Libbitz

L. H. Shumway

Inventor.

H. C. Young

By his Attorney

John E. Earle

United States Patent Office.

H. C. YOUNG, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO HOWE MACHINE COMPANY.

Letters Patent No. 93,266, *dated August* 3, 1869.

IMPROVEMENT IN EMBROIDERING-ATTACHMENT FOR SEWING-MACHINES.

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, H. C. YOUNG, of Bridgeport, in the county of Fairfield, and State of Connecticut, have invented a new Improvement in Sewing-Machines; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a front view, the thread-carriers in one position;

Figure 2, a front view, the thread-carriers in the opposite position; and in

Figure 3, a side view.

This invention relates to an improvement in sewing-machines, especially those in which the needle-bar moves vertically, the object being an attachment operating with the needle-bar, carrying two, four, or six threads, which said threads are stitched upon the fabric, for the purpose of embroidering, ornamentation, and like purposes; and

The invention consists in combining with the needle-bar, or with the needle-lever, two thread-carrying arms, operated together, by the movement of said needle-bar or lever, so that at each movement of the same, the two thread-carriers are reversed, carrying, alternately, their own threads to opposite sides of the needle, the needle passing down between the threads.

To enable others to construct and use my improvement, I will fully describe the same as illustrated in the accompanying drawings.

A is the needle-bar head attached to the machine.

B, the needle-bar, operated vertically, in the usual manner.

C D are two arms, the one, C, pivoted at *a*, so as to swing to the right and left, the one, D, pivoted at *d*, also swinging to the right and left; the one, D, being moved, by connection *f*, with the one, C, as seen in figs. 1 and 2, so that as the arm C is turned from the position denoted in fig. 1, to that in fig. 2. the arm D is thereby thrown to the opposite side, as from the position in fig. 2 to that in fig. 1.

The lower ends of the said two arms are fitted to each carry one or more threads or cords, and the said arms arranged so as to vibrate across the path of the needle, and so that the needle will pass down between the two threads or sets of threads, and the arms are thus operated by means of a double incline, *b* and *c*, through a rod, E, connected to, and so as to move vertically with the needle bar.

The said rod E is provided with a head, F, which, as seen in fig. 1, runs down the incline *b*, and on its return, runs up the incline *c*, as seen in fig. 2, striking the loop H, and thereby throwing the arms quickly to the opposite position. Descending again, the head, F, returns up the incline *b*, until it strikes the loop, when it throws the arms to the position seen in fig. 1. Thus it will be seen that the threads, carried by the two arms, are crossed between each stitch, as denoted in fig. 1, the thread carried by the needle securing the crossed threads to the fabric.

If desired, a single thread or set of threads may be carried by one arm, as represented by the arm D, fig. 2, and thus produce a different figure.

I am aware that it is not new to thus carry the threads upon the surface of a fabric, and stitch them thereto. Therefore I do not wish to be understood as broadly claiming carrying a surface-thread or threads alternately to opposite sides of a needle; but having described my invention,

What I do claim as new, and desire to secure by Letters Patent, is—

The thread-carrying arms C D, (one or more, or both,) arranged so as to vibrate across the path of the needle, and combined with the spring-rod E, loop H, and needle-bar B, all constructed so as to operate substantially in the manner herein set forth.

H. C. YOUNG.

Witnesses:

F. M. TOWER,

B. M. LAWRENCE.