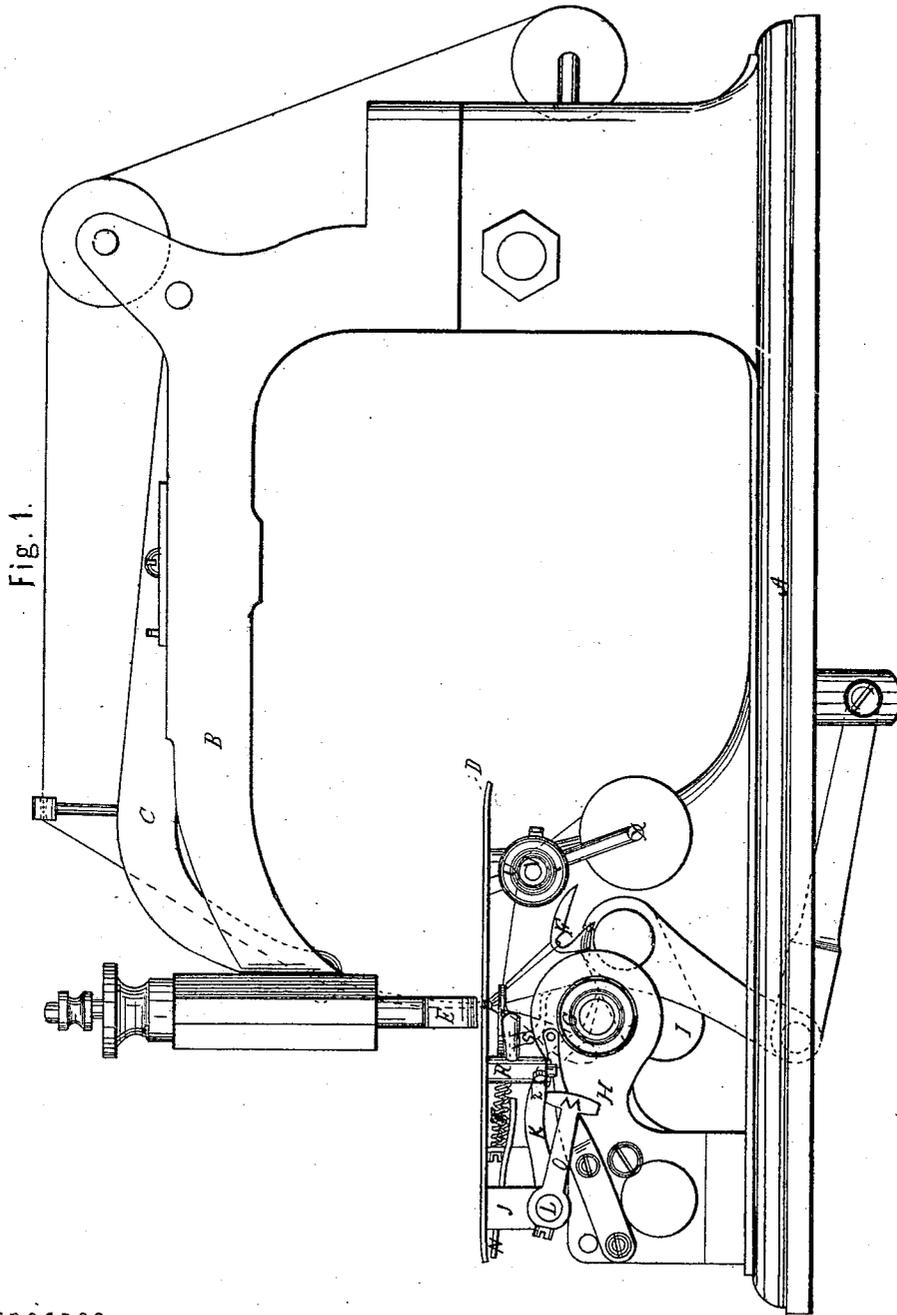


L. B. BRUEN.
SEWING MACHINE.

No. 60,682.

Patented Jan. 1, 1867.



Witnesses.

Geo. H. Collins
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Inventor.

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United States Patent Office.

LEWIS BUDD BRUEN, OF NEW YORK, N. Y.

Letters Patent No. 60,682, dated January 1, 1867.

IMPROVEMENT IN 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, LEWIS BUDD BRUEN, of the city, county, and State of New York, have invented a new and useful Improvement in Sewing Machines; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, and the letters of reference marked thereon, in which the same letter represents the same thing in each figure.

Figure 1 is a side elevation.

Figure 2, a partial end view.

Figure 3, a bottom view of cloth plate, with improved attachment thereon; and

Figure 4, a side view of the same.

My invention relates to the class of sewing machines known as "elliptic hook machines," in which are used a looper describing an elliptic path as in Blodgett's Patent No. 21,405, and is designed to make the previous inventions patented by John J. Sibley for adapting Wheeler & Wilson's sewing machines to making double-loop and three-thread stitches applicable to "elliptic hook" machines.

A is the bed-plate; B, the stationary arm; C, the needle arm; D, the cloth-plate; E, the presser-foot; F, the elliptic hook; G, the bobbin; H its holder; I, the crank operating the hook; J the frame for supporting the shaft and lever for acting the thread-carrying looper P; K, the main lever; L, its shaft; M, the spring thereon; N, the lever for securing lever K when the attachment is not employed; O, the lever for operating the thread-carrier; P, the thread-carrier; Q, the projection on its stud R; S, the thread-remover; T, the thread-carrier spring, to restore it to position; U, the under-thread tension; V, its regulating nut; W, the outward projection on lever O; X, the under-thread spool-holder.

The operation is as follows: Frame J being secured on the under side of cloth-plate, D, so that lever K bears against crank I as the latter revolves, shaft L is rotated sufficiently by the movement of lever K to cause lever O to rise, and its outer projection W, bearing against projection Q on stud R, rotates stud R sufficiently to draw thread-carrier P, with its distended loop already around the needle thread, away from the line of the needle hole in the cloth-plate; crank I, continuing its revolution, ceases to press up lever K, and spring T carries thread-carrier P, revolving on stud R, back to its place; thread-remover S carries both threads out of the line of hook F, so that it shall not twice catch the same loop or the bobbin thread when the three-thread stitch is made. When the simple lock-stitch is desired, lever N secures lever K from crank I so that it does not act upon it. To make the double-loop-stitch, the spool is placed on holder X, the thread brought over tension U, between its disks, and through the eyes and groove of thread-carrier P in the ordinary manner of double-loop machines. If the bobbin is threaded, a three-thread stitch will be formed. It is manifest that the device may be secured in various ways to the machine, and motions obtained from the feed cam, if preferred.

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

1. The devices described, attached to the cloth-plate of "elliptic hook" machines, constructed and operating substantially as explained, for forming double-loop and three or more thread stitches thereby, at pleasure.

2. The combination of cloth-plate D, elliptic hook F, with or without bobbin G, needle arm C, thread-carrier P, and the other usual and essential operative parts of elliptic hook machines, constructed and operating together substantially as and for the purposes described.

3. Remover S, to withdraw the threads from the line of travel of the hook, substantially as described.

LEWIS BUDD BRUEN.

Witnesses:

GEO. H. COLLINS,

S. J. GORDON.