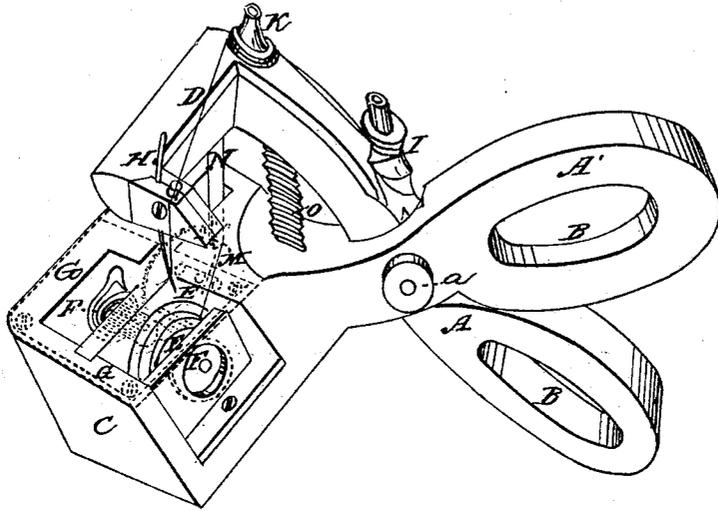


B. W. COLLIER.
Sewing Machine.

No. 63,615.

Patented April 9, 1867.



Witnesses:
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B. W. COLLIER, OF OXFORD, MISSISSIPPI.

Letters Patent No. 63,615, dated April 9, 1867.

IMPROVEMENT IN HAND-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, B. W. COLLIER, of Oxford, in the county of Lafayette, and State of Mississippi, have invented a new and improved Hand-Sewing Machine; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation of the same, reference being had to the accompanying drawing, which is made a part of this specification, and represents a perspective view of my improved hand-sewing machine, the working surface or table being indicated in red outline, so as not to conceal the enclosed operating mechanism.

The nature of my invention consists in the arrangement of a bobbin and looping-hook within a case or box attached to one of a pair of levers or handles pivoted together and formed with finger-loops like the two parts of a pair of shears, the needle being attached to the corresponding end of the other lever and operated by opening and closing the instrument by hand. The instrument is adapted to be carried about from place to place, and may be supported by the hand without serious inconvenience when in operation.

In order that others skilled in the art to which my invention appertains may be enabled to fully understand and use the same, I will proceed to describe it in detail.

A A' are a pair of levers pivoted together at *a*, and formed at one end with loops B B, to enable them to be operated by the thumb and finger after the manner of shears. At their opposite ends these levers are provided with the case or box C and the horizontal arm D. E is a looper, suitably journaled within the case C, and F is a bobbin arranged within the looper E. G (red lines) is the top of case C, upon which rests the material to be sewed. H is the needle, adjustably secured to the end of the arm D, and occupying such position in relation to the mechanism E E' F that when the levers are closed the needle passes through its hole in the top G of the case C, within which it leaves a loop to be caught by the hook and carried around the bobbin. I is the spool which holds the thread for the needle, said spool being mounted upon the lever A. The latter also supports the spring-tension pulley K, around which the thread extends from the spool to the needle. L is a pinion, fixed upon the shaft or axis of the looper E, and engaging with the semicircular cog M, which is enclosed within the frame C, and actuated by a rod, N, attached to the end of lever A. When the levers A A' are closed the cog M is, by the action of the rod N, made to rotate the looper E in one direction through the medium of the pinion L. The looper is rotated in an opposite direction, when the levers are opened, as often as the said levers are closed by hand, by the elasticity of the spring O. The looper E is made to perform a complete revolution in both directions, that is to say, it has a reciprocating motion upon its axis instead of a continuous rotary motion like the looper in the Wheeler and Wilson sewing machine; yet the looper, bobbin, and make of stitch are analogous to those of the machine cited. The downward motion of the needle-carrier D puts the needle through the cloth and turns the hook E' backward in position to catch the loop of the needle-thread, and the upward motion causes the hook to take hold of the loop and pass it entirely around the bobbin, when the loop becomes disengaged and the motion of the looper is reversed.

No feeding device is shown, as it is the intention to employ such as is used in the Wheeler and Wilson machine, or any other that may be conveniently applied.

Having thus described my invention, the following is what I claim as new herein, and desire to secure by Letters Patent:

I claim the combination of the levers A A', B B, case C, arm D, needle H, rotary looper E, hook E', bobbin F, pinion L, cog M, rod N, spring O, and spool I, all arranged as herein described for the purpose specified.

B. W. COLLIER.

Witnesses:

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