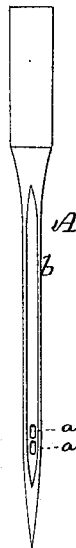


J. B. BLANCHARD.
Modes of Machine Sewing.

No. 151,558.

Patented June 2, 1874.



Witnesses,
J. G. Leage
J. E. Pinkham

Joseph B. Blanchard.
by J. Curtis,
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UNITED STATES PATENT OFFICE.

JOSEPH B. BLANCHARD, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO
FREDERICK CURTIS, OF SAME PLACE.

IMPROVEMENT IN THE MODES OF MACHINE-SEWING.

Specification forming part of Letters Patent No. **151,558**, dated June 2, 1874; application filed
August 22, 1872.

To all whom it may concern:

Be it known that I, JOSEPH BOND BLANCHARD, of Boston, Suffolk county, Massachusetts, have invented a certain Method of Machine-Sewing, of which the following is a specification:

This invention is an improved mode of machine-sewing by the employment of two threads in conjunction with a two-eyed machine-needle, one eye for each thread, substantially as hereinafter specified.

The drawings accompanying this specification represent, in elevation, a sewing-machine needle, *A*, formed with two eyes, *a a*, these eyes being placed in axial alignment with the body *b* of the needle, and situated a short distance asunder. These eyes are to be placed as close as possible together, leaving only so much metal between them as will suffice to keep them separated, in order that each thread may have its distinct eye, while they all may be so close together as to be readily taken by a single shuttle or hook, according to the kind of machine used.

In practical carrying out of my invention the several threads are to be inserted, one through each eye of the needle, and subsequently left to take care of themselves, as in ordinary sewing.

I have found in practice that each thread preserves at all times the position with respect to the next adjacent one that it took originally; hence, when colored threads are employed for the purpose of embroidering, each color will maintain its proper position.

Under my invention sewing progresses in all respects as satisfactorily as with one thread, and an ornamental or embroidering stitch in colors is obtained with no more care or trouble than ordinary sewing.

My invention is susceptible of ready application to any of the existing sewing-machines in the market, all the change that is required being an additional spool-spindle for each additional thread. The same tension and take-up can be employed for all the threads, no change in this respect being necessary.

By means of my invention I obtain several important advantages over any former system of sewing: First, the hole made by the needle, in whatever material the puncture is made, is filled entirely by the threads, and I am thus enabled to use a comparatively small needle to obtain a large and strong stitch. The value of this fact is more apparent in the sewing of leather, as it is one of the greatest evils, in the sewing of this material by machinery, that the holes must be of such size as often to cut the stock, and weaken the parts, and in all cases to detract from the finished appearance of the work.

In sewing heretofore, the difficulty of using a thread sufficiently large to fill the needle-hole has been found to consist with the eye of the needle. If an attempt is made to carry two or more threads in one eye an instant failure is the result.

Elaborate experiments have convinced me that, by the employment of a two-eyed needle in accordance with my invention, I am enabled to use such a quantity of thread as will entirely fill any hole made by the needle; and therefore I am enabled, as before stated, to either reduce the size of the needle and avoid injury to the material, as well as obtain a stitch equally as strong as any now laid, or to obtain, by the use of the present-sized needle, a much larger and stronger stitch than can now be obtained with it.

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

The herein-described mode of machine-sewing, by the employment of two threads in conjunction with a single machine-needle provided with eyes, one for each thread, the same being used in a sewing-machine of otherwise ordinary or suitable construction, substantially in the manner and for the purposes set forth.

JOSEPH B. BLANCHARD.

Witnesses:

F. CURTIS,
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