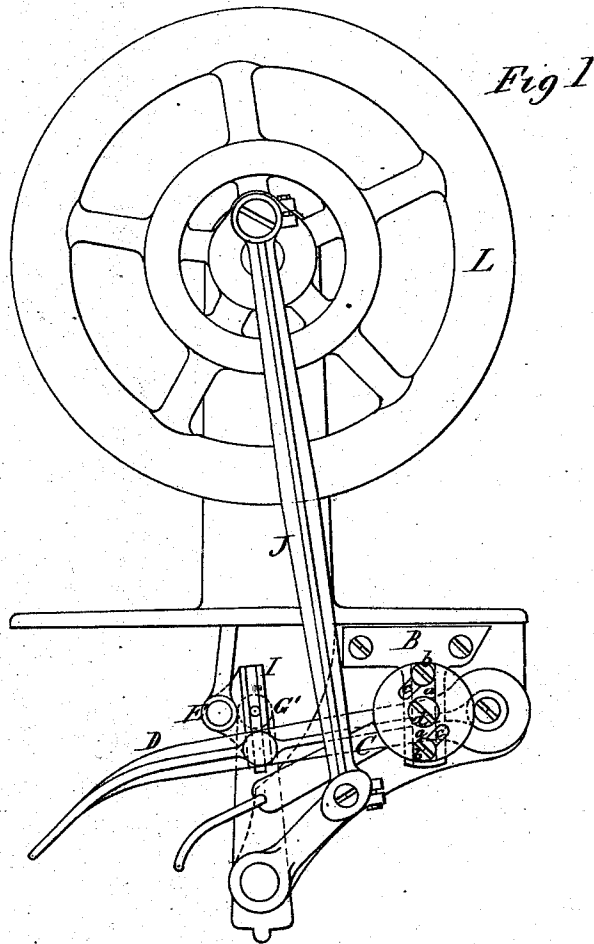


J. B. McCUNE.
Sewing-Machines.

No. 158,596.

Patented Jan. 12, 1875.



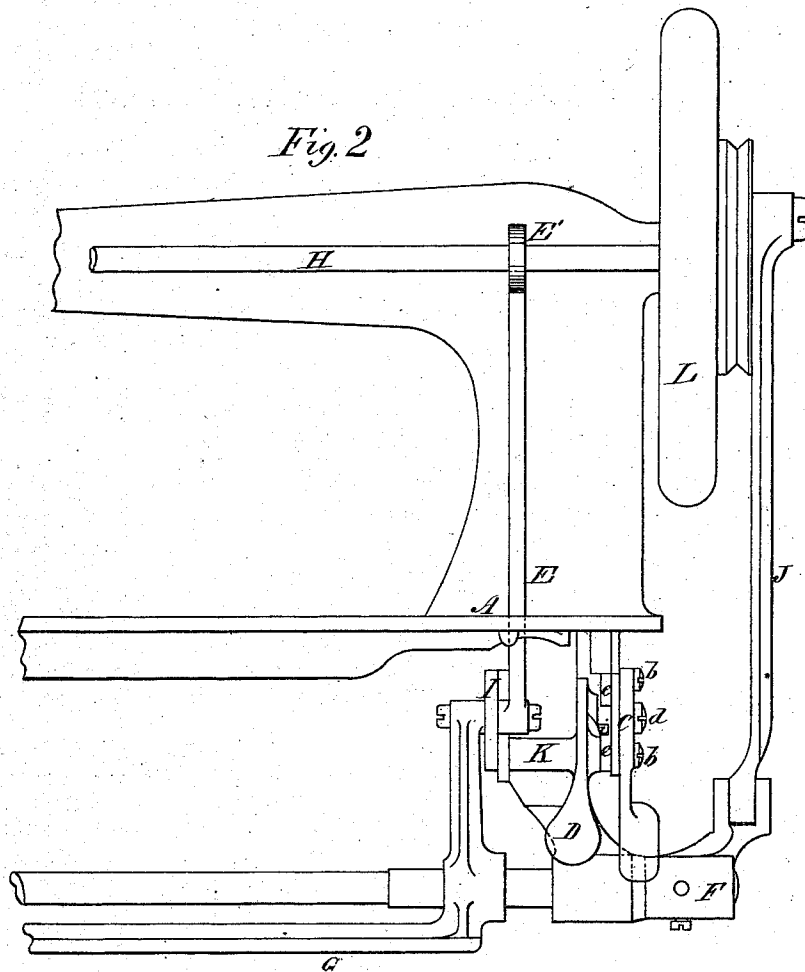
Witnessed
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P. L. Scribner

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By Wm. Bruce.
att'y.

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UNITED STATES PATENT OFFICE.

JOSEPH B. McCUNE, OF HAMILTON, CANADA, ASSIGNOR TO RICHARD MOTT WANZER, OF SAME PLACE.

IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. **158,596**, dated January 12, 1875; application filed June 29, 1874.

To all whom it may concern:

Be it known that I, JOSEPH BURT McCUNE, of the city of Hamilton, in the county of Wentworth, in the Province of Ontario, Dominion of Canada, have invented a certain new and useful Improvement in Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

The object of my invention is a very simple device for reversing the "feed" of sewing-machines, enabling the operator to sew forward or backward, producing the same length of stitch.

Figure 1 represents a partial view of a sewing-machine. Fig. 2 is a portion of a side view of the same, with the arm, cloth-plate, and shafts broken off.

A is the bed-plate of the machine. B is a bracket, fastened to the under side of the bed-plate A, provided with two parallel slots, *a a*, with a central opening between the said slots for a screw, *d*, to fasten the disk-lever C to it. The peculiar form of the lever C is shown in the end view, Fig. 1. Its right end is circular, and its extreme left end is flattened out, as a convenient handle for the operator. Its use will be shown hereinafter. It is also provided with two scroll-slots, *c c*, through which screws *b b* pass. They also pass through slots *a a* of the aforementioned bracket, and serve to keep the disk of the lever C in its place. D is a feed-lever, for the purpose of regulating the length of the stitch one way. It has a pin, K, attached to its left side, said pin constructed to slide in a groove of the swivel-block I. E is a connecting-rod passing from the shaft H to the swivel-block I, and a cam on the shaft H imparts motion to the said rod and block. F is a rocker-shaft. G' is an upward arm of the rocker-shaft G, connected with the swivel-block I. The view, Fig. 1, shows how the rocker-arm G' and connecting-rod E are connected to the swivel-block. I is a swivel-block, containing a groove,

in which slides the pin K, which is attached to the lever D for the purpose of regulating the length of the stitch. *i* is a small pin, fastened to the lever D, Fig. 2, immediately under the bracket B, for the purpose of a stop for the lever D. Its action is confined between blocks *e e*. (Shown in Fig. 2.) The sliding blocks *e e* are made to be adjusted near to, or distant from, each other by means of the scroll-slots and screws *b b* of the disk of the lever C, and the space between the said blocks is expanded or contracted as the handle or lever C is raised or lowered. J is a connecting-rod from the drive-wheel L to the rocker-shaft F. K is the pin which is attached to the lever D, the outward end of which is made to fit in the groove of the swivel-block I.

The operation of my device is as follows: By having the pin K in the groove of the swivel-block I, below the center of the point G', Fig. 1, the feed moves the cloth from the operator; and, when the said pin K is above the center of the swivel-block, the feed will be reversed, and the cloth will be fed toward the operator. The operation of the slotted lever C and sliding blocks *e e* is to form adjustable stops for the pin *i*, said pin being firmly attached to the lever D, so that the feed is reversed.

My devices enable an operator to sew backward or forward, and fasten the ends of the seams without stopping the machine and turning the cloth around.

What I claim is—

The slotted disk-lever C and movable blocks *e e*, combined with the feed-regulating lever D, having pins *i* and *k*, all operating substantially as and for the purpose specified.

Dated at Hamilton, Canada, this 30th day of May, A. D. 1874.

JOSEPH BURT McCUNE.

Signed in the presence of—

WM. BRUCE,
P. L. SCRIVEN.