

C. O. CROSBY.

Improvement in Machines for Sewing Boots and Shoes.

No. 124,338.

Patented March 5, 1872.

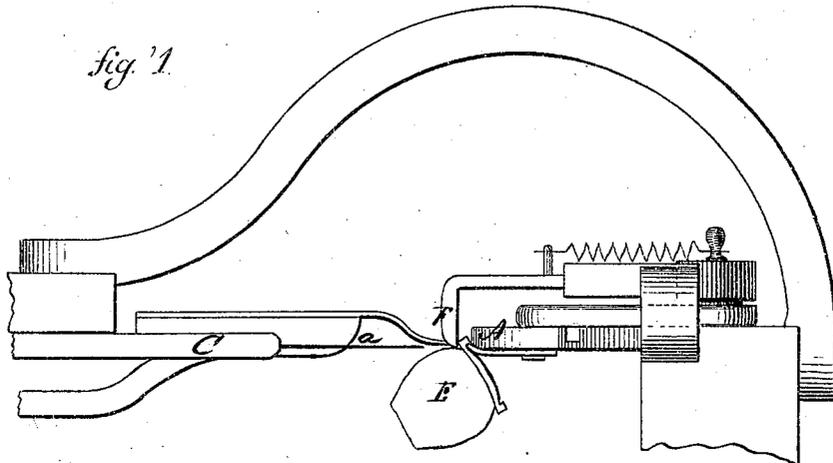
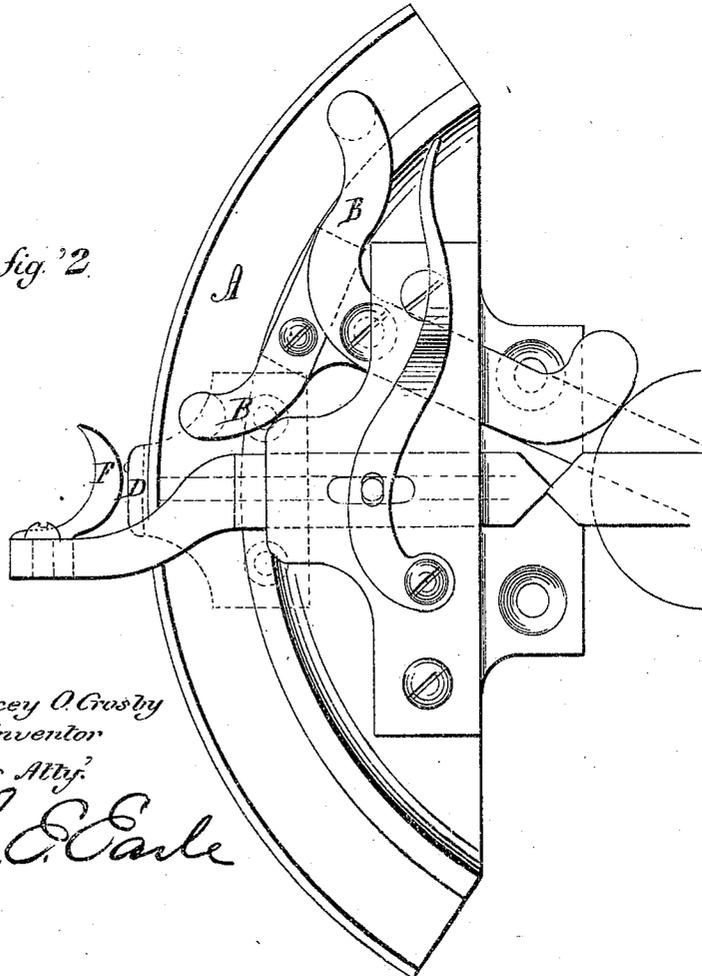


fig. 2.



Witnesses

A. J. Tibbits
 J. H. Shumway

Chauncey O Crosby
 Inventor

By his Atty.

H. C. Earle

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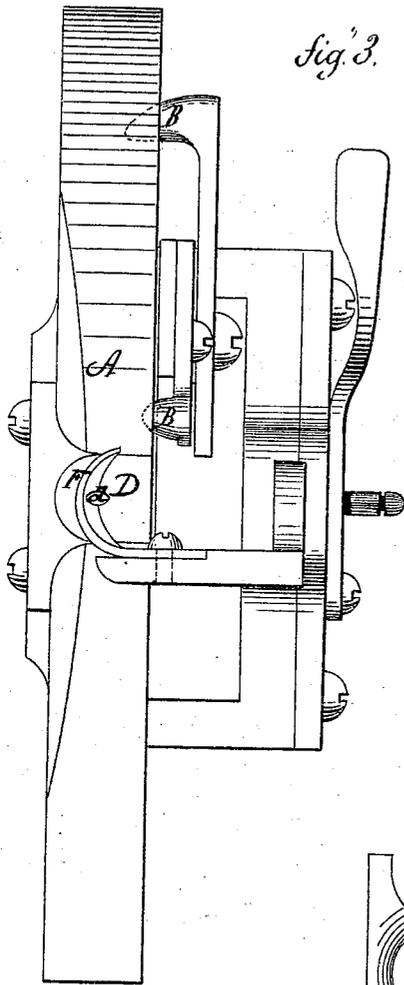


Fig. 3.

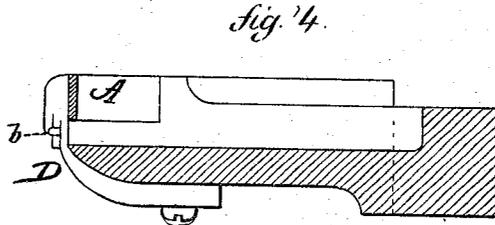


Fig. 4.

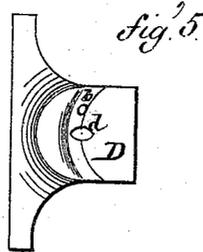


Fig. 5.

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UNITED STATES PATENT OFFICE.

CHAUNCEY O. CROSBY, OF MILFORD, ASSIGNOR TO THE CROSBY WELTED-
AND-TURNED-SOLE SEWING-MACHINE COMPANY, OF NEW HAVEN, CT.

IMPROVEMENT IN MACHINES FOR SEWING BOOTS AND SHOES.

Specification forming part of Letters Patent No. 121,333, dated March 5, 1872.

To all whom it may concern:

Be it known that I, CHAUNCEY O. CROSBY, of Milford, in the county of New Haven and State of Connecticut, have invented a new Improvement in Machine for Sewing Boots and Shoes; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a side view of that part of the machine to which the invention partially relates. Fig. 2, a top view of the shuttle-race; Fig. 3, a front view of the same; Fig. 4, a transverse central section; Fig. 5, a front view of the work-plate detached.

The last four views are full size.

This invention relates to an improvement in machines for stitching the soles of welted work, and as an auxiliary to the machine in application "A," filed in even date herewith; the object being the employment of a shuttle carrying a second thread to make what is known as the "lock-stitch;" and the invention consists in the peculiar construction of what may be termed the work-plate, whereby I am enabled to employ a shuttle or lock stitch in welted work.

A is the shuttle-race; B B, the shuttle-carrier; C, the needle-bar; *a*, the needle; D, the part which I term the work-plate, shown detached in Fig. 5, and is formed to be secured upon the under side of the shuttle-race, as seen in Fig. 4. From the needle-hole *d* downward the work-plate is curved back, as seen in Fig. 4, and also curved upon its face or vertical plane, as seen in Figs. 3 and 5. Thus the work, passing over the work-plate, will bear, as it were, upon but a single point, and that point in the immediate vicinity of the path of the needle through the plate. On the said plate a projection, *b*, is formed to set into the groove on the sole of the shoe, as seen in Fig. 1, E rep-

resenting a section of the shoe. F is a guard, which extends down in front of the work-plate, as seen in Figs. 1, 2, and 3, and sits upon the shoe above the edge of the sole and welt, as seen in Fig. 1, the needle entering the welt above the said guard. This guard, while it prevents the needle from coming in contact with the upper, also serves as a guide in holding the shoe, it being desirable that the path of the needle should be through the welt and upper, as close to the upper as possible, and through the groove upon the outside of the sole; and this is insured by the guard F upon the upper and the projection *b* in the groove upon the outside of the sole. Therefore, while on the ball and around the toe, the sole would stand nearly perpendicular, or at right angles to the path of the needle, as it approaches the shank the shoe turns, inclining the sole, as denoted in Fig. 1. Hence the necessity of curving or inclining the work-plate downward from the needle-hole; and the curvature which is given to the sole at the shank portion also requires that a transverse curvature be given to this plate, as denoted in Fig. 5.

By this construction of the work-plate the shoe may be turned in any direction to give the required inclination to the sole, in order that the needle may pass through the welt and sole in the path, as before described.

Claims.

1. The work-plate D, in form substantially as described, when combined with the shuttle-race, substantially as and for the purpose specified.
2. In combination with the subject-matter of the first clause of claim, I claim an eye-pointed needle and the guide F, constructed and arranged substantially as described.

C. O. CROSBY.

Witnesses:

A. J. TIBBITS,
JOHN E. EARLE.