G. V. SHEFFIELD.

Method of Uniting the Soles and Uppers of Boots and Shoes.

No. 168,420. Patented Oct. 5, 1875.

Fig. 1

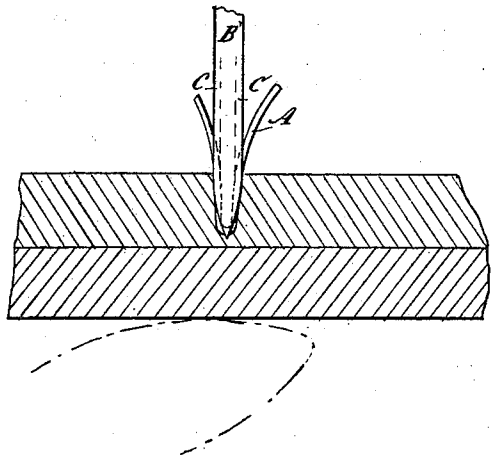
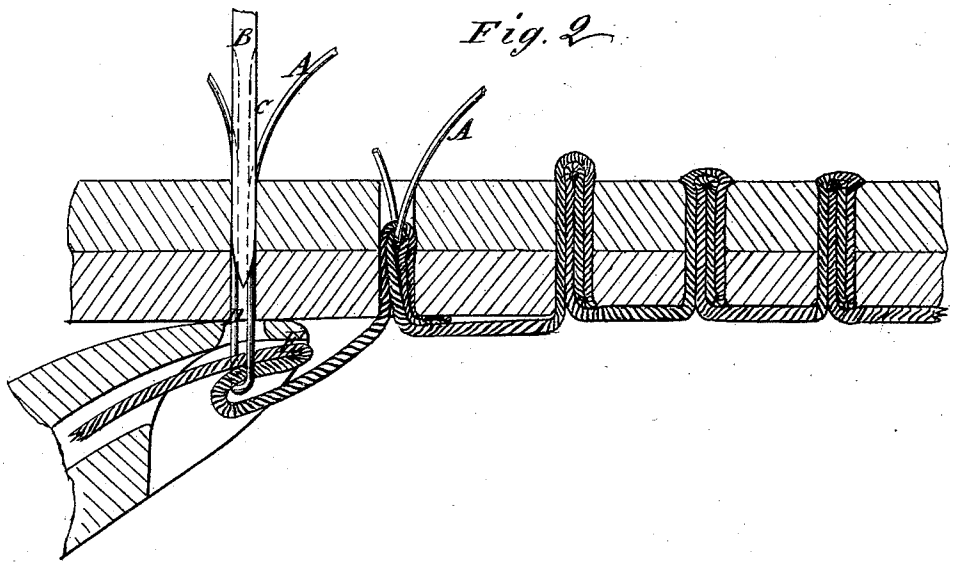


Fig. 2



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UNITED STATES PATENT OFFICE.

GEORGE V. SHEFFIELD, OF NEW YORK, ASSIGNOR TO HIMSELF AND MARTIN BENNETT, OF BROOKLYN, N. Y.

IMPROVEMENT IN METHODS OF UNITING THE SOLES AND UPPERS OF BOOTS AND SHOES.

Specification forming part of Letters Patent No. **168,420**, dated October 5, 1875; application filed June 5, 1875.

To all whom it may concern:

Be it known that I, GEORGE V. SHEFFIELD, of the city, county, and State of New York, have invented a new and Improved Method of Uniting the Soles and Uppers of Boots and Shoes, of which the following is a specification:

The invention will first be described in connection with drawing, and then pointed out in the claim.

Figure 1 is a section of a piece of work and a side elevation of a needle and a piece of the wire used for inserting the thread, showing the manner of introducing the wire when making the hole, and Fig. 2 is a section showing the complete stitch and method of making it.

Similar letters of reference indicate corresponding parts.

A fine wire, A, is to be held over the work by any approved means, so that the needle B, having a notch in the point connecting grooves C (dotted) in opposite sides, will come down on and force it through the work when it makes the hole. The wire remains when the needle goes back, and a looper of any kind loops the thread through the wire loop D, as represented at E, after which the wire loop is drawn back by nippers or other means, taking hold of both members of it above the work, drawing the thread loop through, and thus quadrupling the thread in the hole, and so wedging or binding it that the wax sticks it fast, making a strong and durable fastening. The wire will be drawn out of the loop of thread in any way, being, if necessary, cut and a piece thrown away. The wire may be drawn up to pull the thread through the work by the take-up of a sewing-machine, while the end is held by nippers, or at the same time partly drawn by the nippers.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The improvement in the art of uniting the soles and uppers of boots and shoes, consisting in passing a doubled wire through the same, inserting a thread through the loop of the wire on the under side of the sole, and drawing the thread through the leather by means of said wire, substantially as hereinbefore set forth.

GEORGE V. SHEFFIELD.

Witnesses:

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