

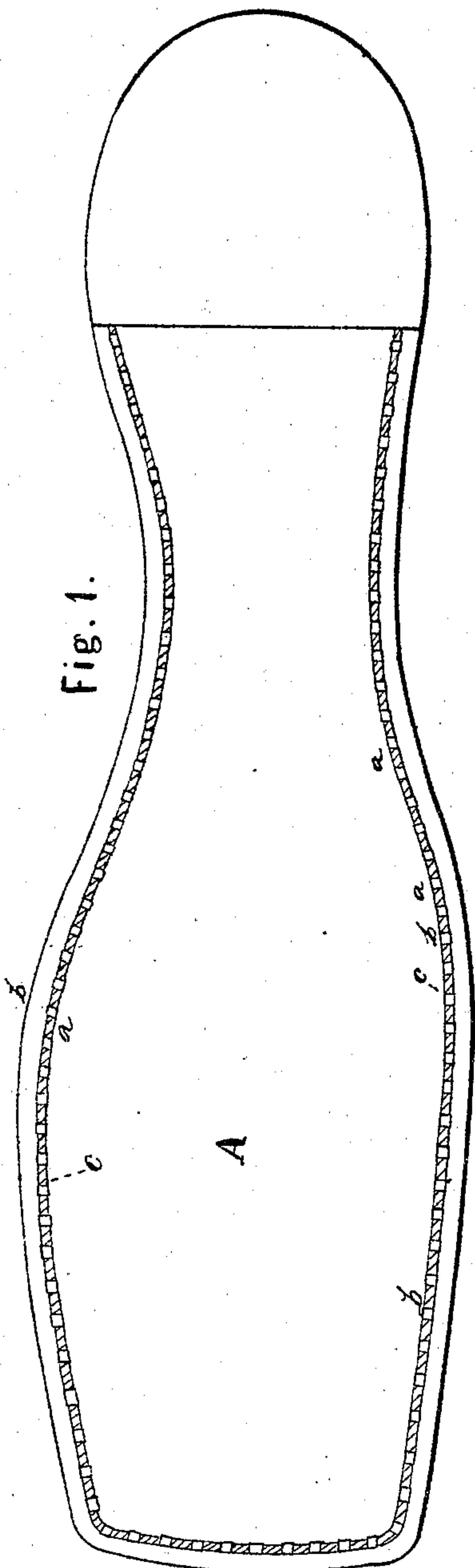
*B. F. Sturtevant.*

*Boots & Shoes.*

*N<sup>o</sup> 43235.*

*Patented June 21, 1864.*

Fig. 1.

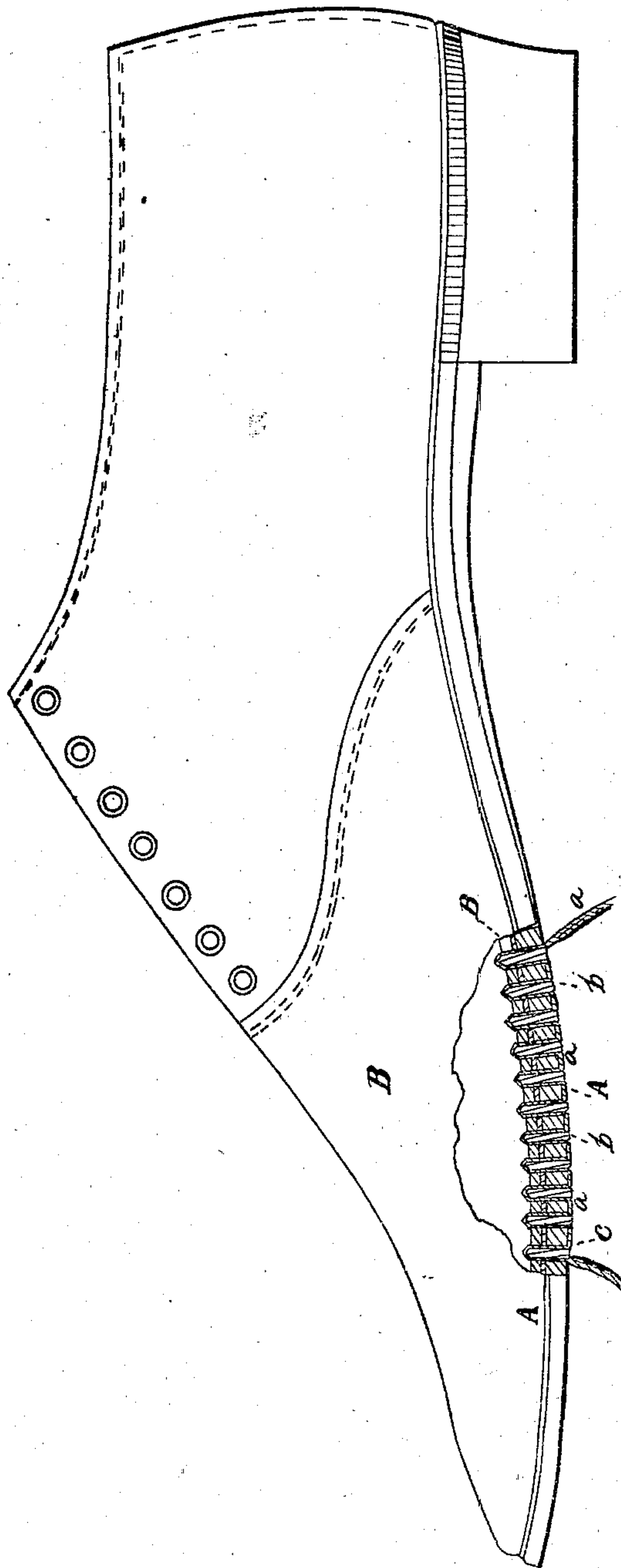


Witnesses

*R. H. Eddy*

*Frederick Curtis*

Fig. 2.



Inventor

*B. F. Sturtevant*

# UNITED STATES PATENT OFFICE.

BENJAMIN F. STURTEVANT, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN BOOTS AND SHOES.

Specification forming part of Letters Patent No. 43,235, dated June 21, 1864.

*To all whom it may concern:*

Be it known that I, BENJAMIN F. STURTEVANT, a resident of Boston, in the county of Suffolk and State of Massachusetts, have made a new and useful invention having reference to Boots or Shoes; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 denotes an under side view of an improved shoe constituting my invention. Fig. 2 exhibits a side elevation of the shoe and a longitudinal section taken through some of the "sewing" and the "pegging" thereof.

My invention is an improved manufacture of boot or shoe, it having its sole or soles and its upper or uppers combined or united by means substantially as hereinafter specified—viz., not only by the sewing or looping of a thread within, but by a series of pegs inserted or driven into the awl-holes of such thread or its loops.

In the drawings, A denotes the sole and B the upper leather or "upper" of the shoe. They are connected by a thread, *a*, and a series of pegs, *b b b*, inserted within a series of awl-holes, *c c c*. The thread is to be looped within the awl-holes, or it may be passed through them, and is to have a peg of wood or other material driven into such holes so as to either compress or expand the thread within the hole and against its side or sides, in manner not only to firmly fix the thread in the hole, but at the same time to firmly fasten the peg therein. The shoe, besides its upper and sole, is thus composed of a thread and a row of pegs passed into the said upper and sole, and arranged together therein as specified.

In sewing leather by means of a sewing-machine and with a thread, (whether waxed or not,) by running it through or looping it into a series of awl-holes made in such leather, the portion or part of the thread deposited within each hole will seldom completely fill the hole, in consequence of which, when the exposed

parts of the thread may have become worn out, the materials sewed or connected together are liable to be easily ripped apart. By means, however, of the row of pegs combined and arranged with the awl-holes and the thread in manner as explained, the thread can be so firmly fastened within the several awl-holes as to securely connect the parts together and mutually operate to prevent them from being ripped apart. The thread also serves to keep the pegs in place within the holes.

The making of the awl-holes and the insertion of the thread and the pegs therein may be effected either by manual labor and proper tools or implements, or such may be accomplished by mechanism operating automatically either in whole or in part.

A boot or shoe made in accordance with my invention unites the advantages of sewing and pegging, and consequently will be much stronger than a shoe or boot as ordinarily made, whether either pegged or sewed. Furthermore, by connecting the sole and the upper by a series of pegs and a thread looped into the awl-holes, there will be no necessity of removing the last from the shoe preparatory to the fixation of the sole to the upper.

Some of the important advantages attained by my new mode of making a shoe with reference to other methods in use are economy in labor, greater strength of connection of the upper and sole, less liability of ripping of the sole from the upper, and consequently greater durability of the shoe.

I claim—

As an improved manufacture and as my invention, a boot or shoe having its sole or soles and its upper or uppers combined, united, or connected with and by means substantially as described.

B. F. STURTEVANT.

Witnesses:

R. H. EDDY,  
F. P. HALE, Jr.