July 2, 1946. J. WHITE 2,403,253

PROCESSES OF MAKING SHOES

Filed Oct. 30, 1945

Fig. 1.

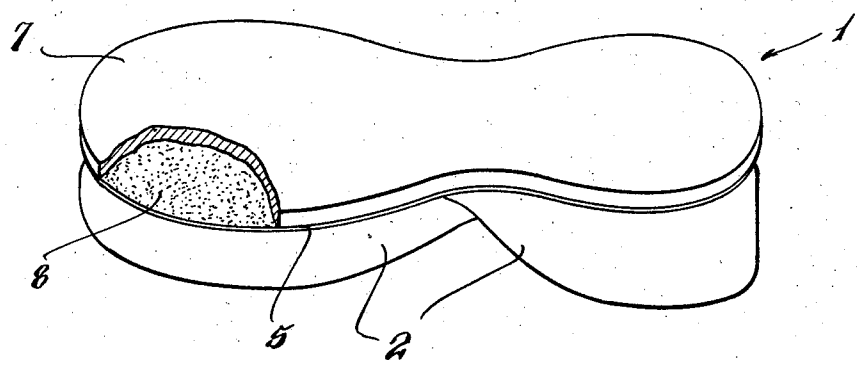


Fig. 2.

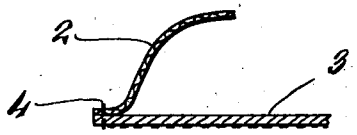


Fig. 3.

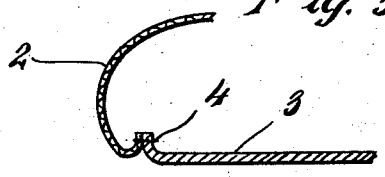


Fig. 4.

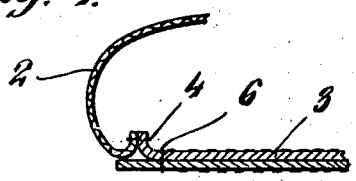


Fig. 5.

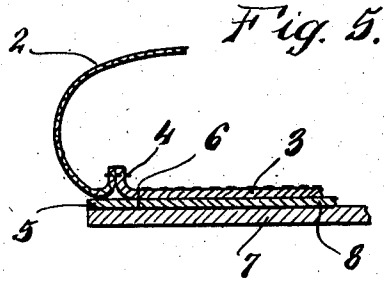


Fig. 6.

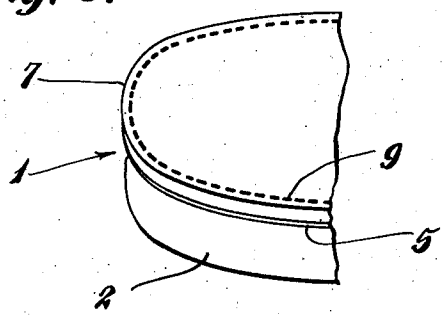
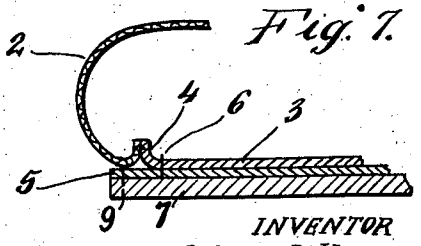


Fig. 7.



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Patented July 2, 1946 2,403,253

UNITED STATES PATENT OFFICE

2,403,253

PROCESS OF MAKING SHOES

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Application October 30, 1945, Serial No. 625,651

3 Claims. (Cl. 12—142)

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This invention relates to improvements in the art of manufacturing shoes and, more specifically, to a new and improved process of making shoes which have a stiff or hard outsole.

An object of the present invention is the provision of a process of the character described which considerably reduces the cost of making shoes with stiff outsoles by simplifying the procedure, reducing the time of manufacture, and saving material.

Another object of the present invention is the provision of a process of the character described which does not require any new equipment and which can be carried out efficiently and highly economically with fewer machines and lasts than any hitherto known process of making shoes, but which allows the production of shoes which in quality and appearance are at least equal to shoes made according to the hitherto employed methods.

Further objects of the instant invention reside in any novel feature of operation or novel combination of parts present in the embodiment of the invention described and shown in the accompanying drawing whether within or without the scope of the appended claims and irrespective of other specific statements as to the scope of the invention contained herein.

In the drawing:

Figure 1 is a perspective view of an entire shoe;

Figure 2 is a diagram illustrating a part of a shoemaking process which is similar to my improved new process;

Figure 3 is a diagram showing another part of said similar process.

Figure 4 is a diagram showing in section a part of a shoe as it appears during a certain stage of my new and improved process;

Figure 5 is a diagram similar to that of Figure 4 showing a part of a shoe at the end of my improved process;

Figure 6 is a perspective view of a shoe made according to my improved process showing the shoe partially broken away; and

Figure 7 is a modification of the stage illustrated in Figure 5.

Similar reference characters refer to similar parts throughout the several views.

My new and improved process is a combination of the process of making shoes which have soft soles of fabric or thin leather, such as slippers, playshoes, bathing shoes, and the like, with the hitherto known process of making shoes which have stiff, hard, or thick outsoles. It relates specifically to the connecting of the soles to the top part.

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In the drawing the numeral 1 denotes a shoe having a top part 2, which is no part of my present invention, and an insole 8 as well as an outsole 7 of thick leather, rubber or the like.

A shoe with a soft outsole (not shown) is made in a well known manner by turning the top part 2 (Figure 2) outside in, connecting it to the soft sole 3 (which may consist of one or more layers of material), by means of a seam 4 or the like and turning the shoe inside out (Fig. 3). Hitherto this inexpensive and simple method could not be used for the making of shoes which have a stiff, hard, or thick outsole 7 because such an outsole makes it impractical or even impossible to turn the shoe inside out. However, according to the present invention this inexpensive method can be used irrespective of the thickness or stiffness of the outsole 7, and I prefer to carry out my new and improved process in the following manner: I prepare for each shoe two soft insoles of thin leather, fabric, or of any other suitable material, which are of equal size and shape, then I lay said insoles one upon the other and connect the upper insole 3 (Figs. 4, 5 and 7) to the lower insole 8 preferably by a row of stitches 6 which is at an equal distance from the edges of the insoles 3 and 8, so that a lip all around said insoles remains unconnected. Thereafter I attach the inverted top part 2 to the free lip of the upper insole 3 by a row of stitches 4 or in any other suitable manner, in using the method by which soft sole shoes have been made (Figs. 2 and 3); and turn the inverted top part 2 with both insoles outside in so as to obtain an article as illustrated in Fig. 4. While now the lip of the insole 3 is bent upwardly and connected to the top part 2, the lip 5 of the lower insole 8 is free (Fig. 5) and can be used for attaching the stiff outsole 7 thereto. The outsole can be pasted upon the lower side of the lower insole 8 (Fig. 5), or it can be attached thereto by means of a row of stitches 9 which runs between the stitches 6 and the outer edges of the outsole 7 and of the lip 5, as may be seen in Figs. 6 and 7.

While I have illustrated and described what I believe to be a preferred embodiment of my invention it is apparent that various slight changes might be made in carrying out of the process described without departing from my invention, and hence I do not limit myself to the precise details set forth but consider myself at liberty to make such changes and alterations as fairly

fall within the spirit and scope of the appended claims.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent is:

1. The process of making shoes which have a stiff outsole consisting in connecting two insoles of equal size and shape to one another in such a manner that all around said insoles a lip portion of each insole remains unconnected, securing said lip portion of one of said insoles to the inverted top part of the shoe, turning said top part with said insoles secured thereto inside out, and securing an outsole to the lip of that insole which is not directly secured to said top part, all substantially as herein described.

2. The process of making a shoe which has a stiff outsole consisting in attaching an upper insole to a lower insole in such a manner that all around said insoles a lip portion of each insole remains unconnected, securing said lip portion of the upper insole to the inverted top part of the shoe, turning said top part with said insoles secured thereto inside out, and securing an outsole to the lip of the lower insole, all substantially as herein described.

3. The process of making a shoe which has a stiff outsole consisting in attaching an upper insole to a lower insole by means of a row of stitches which are at an equal distance from the edges of said insoles so that all around said insoles a lip portion remains unconnected, securing the lip portion of the upper insole to the inverted top part of the shoe by means of a row of stitches which is between the edge of said upper insole and the stitches which connect the insoles to one another, turning said top part with said insoles secured thereto inside out, and securing an outsole to the lip of the lower insole, all substantially as herein described.

JULIUS WHITE.