No. 802,075. PATENTED OCT. 17, 1905.

F. ENGEL.

METHOD OF MAKING SHOES.

APPLICATION FILED OCT. 31, 1904.

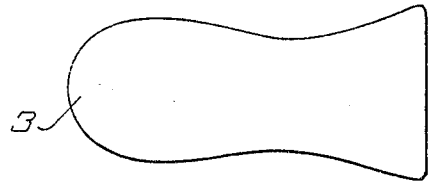


FIG. 1.

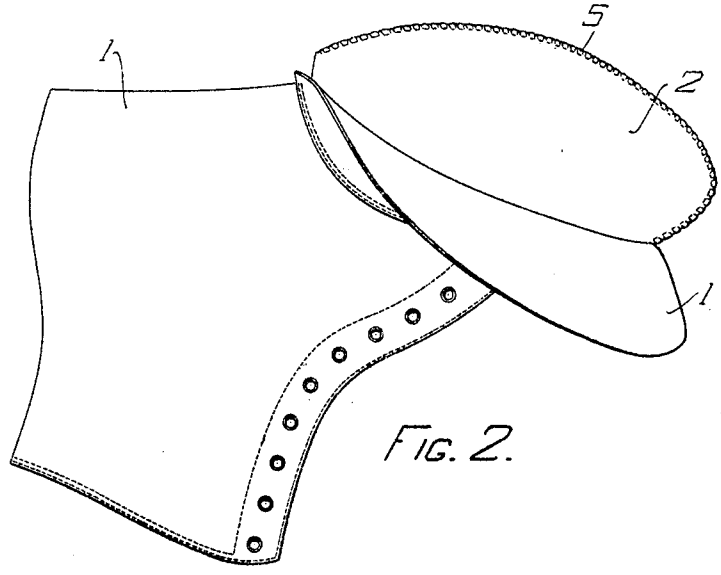


FIG. 2.

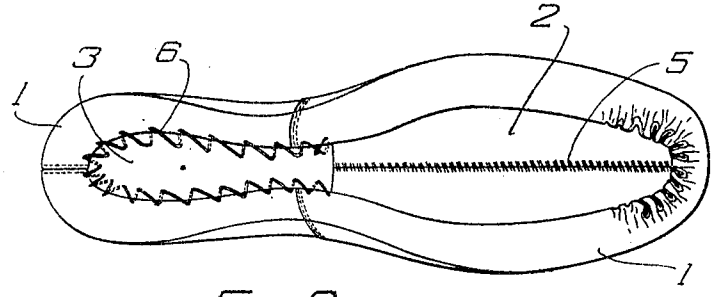


FIG. 3.

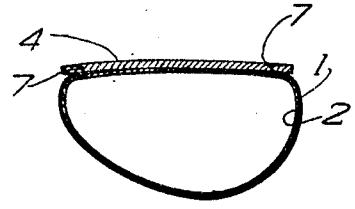


FIG. 4.

WITNESSES

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FRANK ENGEL, OF DOLGEVILLE, NEW YORK, ASSIGNOR TO DOLGEVILLE FELT SHOE COMPANY, OF DOLGEVILLE, NEW YORK, A CORPORATION OF NEW YORK.

METHOD OF MAKING SHOES.

No. 802,075. Specification of Letters Patent. Patented Oct. 17, 1905.

Application filed October 31, 1904. Serial No. 230,627.

To all whom it may concern:

Be it known that I, FRANK ENGEL, a citizen of the United States, residing at Dolgeville, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Methods of Making Shoes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to an improved method of making shoes, and has for its object to produce a neat, serviceable, and comfortable shoe in a simple and expeditious manner without necessitating any special care or skill in manipulation other than that usually possessed by the class of operatives ordinarily employed in shoe-shops.

The shoe produced by the present invention comprises an upper-lining, a half-insole which extends from the heel throughout the heel and shank portions of the shoe, and an outsole, the bottom edges of the upper-lining at the fore part of the shoe being extended beyond the edges of the upper and sewed together, so that the lower edges of the upper-lining form a sock-lining having a central longitudinal seam, the lower edges of the upper being lasted over and secured to the sock-lining at the fore part of the shoe and the lower edges of the upper and upper-lining being lasted over and secured to the half-insole at the heel and shank portions of the shoe and the outsole being secured by a line of through-and-through stitches extending into the interior of the shoe. This shoe is neat in appearance. It has a smooth and comfortable sock-lining. The fore part of the sole is flexible, while the shank portion is sufficiently stiff to give shape to the shoe and properly support the foot of the wearer, and the shoe as a whole is light and serviceable.

The present invention consists in the method hereinafter described and claimed of assembling and securing the several parts of the shoe above referred to.

The present invention will be clearly understood from an inspection of the accompanying drawings, in which—

Figure 1 is a plan view of the half-insole, which extends from the heel throughout the heel and shank portions of the sole of the shoe. Fig. 2 is a view showing the upper and upper-lining assembled and the projecting lower edges of the upper-lining at the fore part of the shoe secured together by a line of stitches. Fig. 3 is a plan view of the shoe after the last has been inserted in the upper and lining illustrated in Fig. 2, the half-insole having been applied to the last and the lower edges of the upper having been pulled over the bottom of the last and secured to the sock-lining formed by the lower edges of the upper-lining and to the half-insole; and Fig. 4 is a cross-sectional view at the fore part of the completed shoe.

In the drawings, 1 indicates the upper; 2, the upper-lining; 3, the half-insole, and 4 the outsole. In manufacturing the shoe the several parts of the upper and upper-lining are cut to the proper shape and assembled in the usual manner, the projecting lower edges of the upper-lining at the fore part of the shoe being secured together at their edges by a line of stitches 5. The fore part of the upper-lining is so cut that when the projecting edges are sewed together and a last is forced into the upper and upper-lining the fore part of the upper-lining fits the last snugly, the lower portion of the upper-lining extending over the bottom of the last and forming a sock-lining which is provided with a longitudinal central seam. After the last is inserted in the upper and upper-lining the half-insole 3 is placed upon the last and the edges of the upper at the fore part of the shoe are pulled over the last and secured to the sock-lining by paste or cement. At the shank portion of the shoe the upper and upper-lining are pulled over the bottom of the last and secured by a line of stitches 6 or by other suitable means to the half-insole. The outsole 4 is now laid upon the shoe and temporarily secured by cement or in any other suitable manner and the last is removed. The outsole is then permanently secured to the shoe by a line of stitches 7 passing through the outsole into the interior of the shoe.

It will be obvious to those skilled in the art that the steps above described which are taken in manufacturing the shoe do not require any special care or manipulative skill on the part of the operatives. The sock-lining for the fore part of the shoe is completely formed before the upper and upper-lining are placed upon the last. The lower edges of the upper after the upper has been placed upon the last are pulled over the bottom of the last,

and the entire upper is caused to conform accurately to the shape of the last.

The invention having been thus described, what is claimed is—

The method of making shoes which consists in assembling with an upper a lining which extends beyond the fore part of the upper, and securing the lower edges of the extended portion of the lining by a line of stitches to form a sock-lining provided with a central longitudinal seam, placing the upper and lining upon a last, placing upon the last a half-insole extending from the heel throughout the heel and shank portions of the shoe, pulling the lower edge of the upper over the last and securing it to the sock-lining and half-insole, temporarily securing an outsole upon the shoe, removing the last, and permanently securing the outsole by a line of stitches passing through the outsole into the interior of the shoe, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK ENGEL.

Witnesses:
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HENRY A. DOLGE.