L. HEATH.

Shoes.

No 162,166. Patented April 20, 1875.

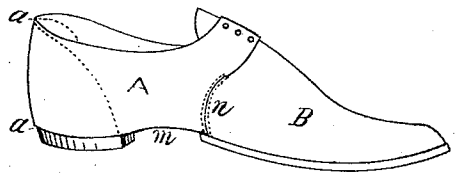

Fig. 1.

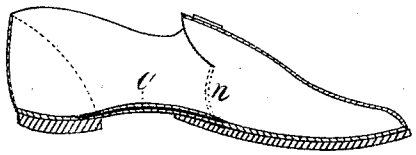

Fig. 2.

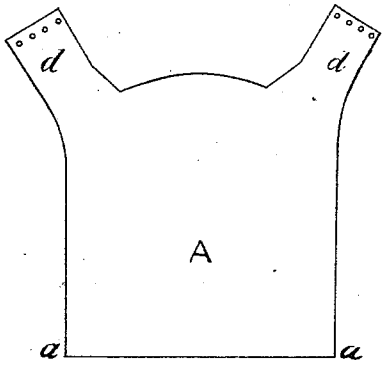

Fig. 3.

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THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

LABAN HEATH, OF BOSTON, ASSIGNOR OF ONE-FOURTH HIS RIGHT TO JAMES HILL, OF STOUGHTON, MASSACHUSETTS.

IMPROVEMENT IN SHOES.

Specification forming part of Letters Patent No. **162,166**, dated April 20, 1875; application filed March 18, 1875.

To all whom it may concern:

Be it known that I, LABAN HEATH, of Boston, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Improvement in Shoes, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which my invention appertains to make and use the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view, Fig. 2 a vertical sectional view, and Fig. 3 a plan, of the quarters.

Like letters of reference indicate corresponding parts in the different figures of the drawing.

My invention relates more especially to that class of shoes which are designed for men's wear; and consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which an easier and better fitting, cheaper, and more durable article of this character is produced than is now in ordinary use.

The distinguishing features of my invention consist, primarily, in making the quarters integral, or cutting them in one piece, and molding or crimping them into the proper shape to fit the foot and form the shank of the shoe; and, secondly, in combination therewith, of an elastic metallic shank-piece, all as hereinafter set forth, and fully shown in the drawing, in which—

A represents the quarters; B, the vamp; and C the metallic shank-piece.

In the construction of the shoe, I cut the quarters in one piece, as shown in Fig. 3, and mold or crimp them in any convenient manner on a proper mold or block to fit the shape of the foot and form the shank *m*, the quarters being united at *a a* by a vertical heel-seam, and to the vamp B by the side seams *n* in the usual manner.

A tap-sole is employed, or one which ends near the side seams, there being no shank-piece or sole below or outside of the shank formed by the quarters.

An inner sole is also employed in the shoe in the usual manner, and between this sole and the shank formed by the quarters A I insert a curved metallic shank-piece, C, which may be secured in position by attaching it to the heel and sole of the shoe by rivets, or in any convenient manner.

By the absence of an outer sole at the shank of the shoe, and the peculiar construction of this part from the quarters, as described, the full benefit of the metallic shank-piece is gained, and a more elastic and better-fitting article produced than is possible by any other method of manufacture with which I am conversant.

It will be obvious, however, that the shank-piece may be of different material, or omitted, without entirely departing from the spirit of my invention, which, having thus described,

What I claim is—

1. As a new article of manufacture, a shoe having the quarters A cut in one piece, as shown in Fig. 3, and molded or crimped to fit the shape of the foot and form the shank *m*, substantially as and for the purpose specified.

2. As a new article of manufacture, a shoe having the quarters A cut in one piece, as shown in Fig. 3, and molded or crimped to fit the shape of the foot and form the shank *m*, and provided with the metallic shank-piece C, substantially as and for the purpose set forth.

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Witnesses:
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GEO. G. SHAW.