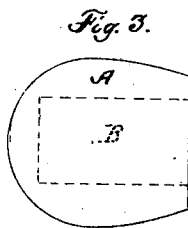
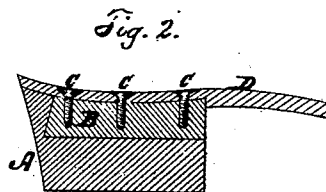
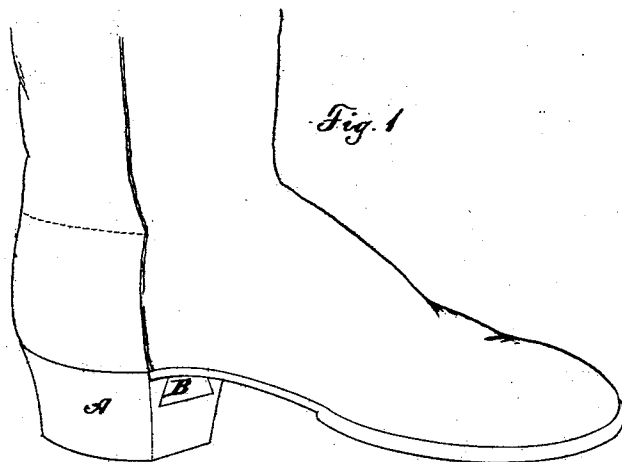


C. H. Helms,

Boot Heel.

No. 110037.

Patented Dec. 13. 1870.



Witnesses.

C. F. Brown.
Joseph J. J.

Inventor.

Charles H. Helms.
by his attorney—
Carroll D. Wright.

United States Patent Office.

CHARLES H. HELMS, OF POUGHKEEPSIE, NEW YORK.

Letters Patent No. 110,037, dated December 13, 1870.

IMPROVEMENT IN THE MODE OF ATTACHING COMPOSITION HEELS TO BOOTS AND SHOES.

The Schedule referred to in these Letters Patent and making part of the same.

I, CHARLES H. HELMS, of Poughkeepsie, in the county of Dutchess and State of New York, have invented certain Improvements in Attaching Composition Heels to Boots and Shoes, of which the following is a specification.

Figure 1 is a perspective view of my invention;

Figure 2 is a sectional view of the same; and

Figure 3 an inverted plan view of a heel.

This invention relates to solid molded heels, and securing the same in position. It is well known that more or less difficulty attends the attaching of molded composition heels to boots and shoes on account of the impenetrability of the composition, which renders it impracticable to use nails, screws, or pegs in the ordinary manner.

The object of my invention is to obviate this difficulty; and

It consists in casting or molding the heel with a beveled block of wood, leather, or other suitable penetrable material on the upper surface of the same, as will hereinafter more fully appear.

In the drawing—

A represents the heel, which may be made of various compositions and formed in a mold.

B represents a block of wood, leather, or other penetrable material incorporated into the upper part of the

heel. Said block is beveled inward from the bottom, as shown, and thereby firmly held in the composition A.

The heel is attached by nails or screws C to the sole D, said nails or screws entering the block B and holding the whole firmly. It will be seen that by this mode of fastening the composition is not touched by the securing device, while the operation is easy and effective.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The heel A, arranged as described with the dovetail block B, the latter being molded into the former so as to be immovable therein, and afford a firm-bearing surface to the sole without the intervention of rubber, while presenting a material that readily holds nails, screws, or other fastening device.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES H. HELMS.

Witnesses:

CARROLL D. WRIGHT,

CHARLES F. BROWN.