

F. O. BROWN.
CUSHION INNERSOLE FOR SHOES.
APPLICATION FILED MAR. 25, 1912.

1,034,763.

Patented Aug. 6, 1912.

Fig. 1.

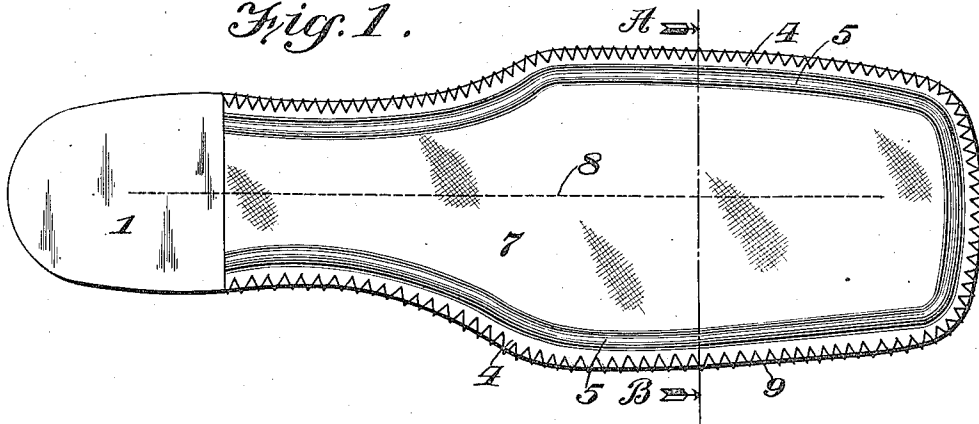


Fig. 2.

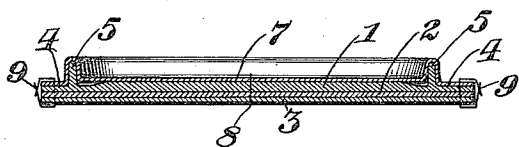


Fig. 3.

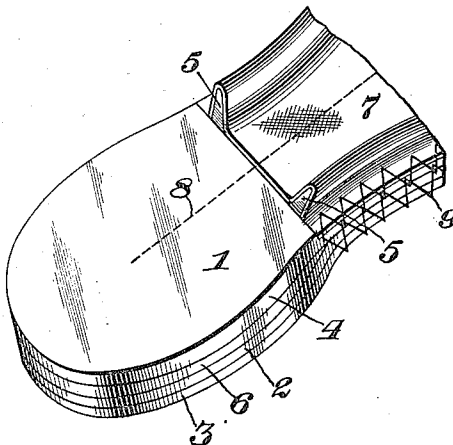
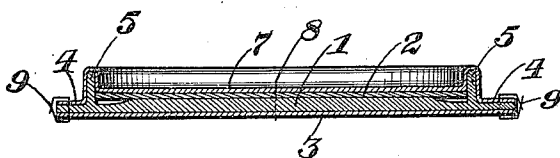


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FREDERICK O. BROWN, OF ST. LOUIS, MISSOURI.

CUSHION-INNERSOLE FOR SHOES.

1,034,763.

Specification of Letters Patent.

Patented Aug. 6, 1912.

Application filed March 25, 1912. Serial No. 686,111.

To all whom it may concern:

Be it known that I, FREDERICK O. BROWN, a citizen of the United States of America, residing at St. Louis, in the State of Missouri, have invented a new and useful Cushion-Innersole for Shoes, of which the following is a specification.

My invention relates to improvements in cushion inner soles for shoes, and has for its prime object a sole of the character described, which, in addition to the unique features of construction found in the insole covered by my patent of July 2, 1907, No. 858,368, shall comprise an element adapted to prevent the penetration of heat or cold to the foot of the wearer through the outer sole of the shoe. This desideratum I attain through the construction and arrangement of parts illustrated in the accompanying drawing, in which—

Figure 1 is a plan view of the bottom of the innersole of my invention; Fig. 2 a transverse section of the completed sole, the view being taken along line A—B of Fig. 1 and directed toward the toe portion thereof; Fig. 3 a perspective of the underside of the heel portion of the insole; and Fig. 4 a transverse section depicting a modified arrangement of parts.

Throughout the several views like numerals refer to like parts.

Referring to the accompanying drawing, 1 designates a relatively thick sheet of strong felt, preferably that known commercially as "piano" felt. Over the upper side of this felt is disposed a sheet of asbestos 2, or other material peculiarly adapted to prevent the penetration of heat and cold to the foot of the wearer, and this non-conductor material is covered with a sheet of calf-skin or kid 3, or other soft and pliable substance.

It will be noted that the margin of the felt is divided edgewise, according to what is known to the trade as the "gem" process, so as to form a "feather" 4 and a flange or shoulder 5, the latter being bent perpendicularly to the plane of the body of the felt and affording a surface to which the welt and upper or vamp are sewed in a manner well known to those versed in the methods of shoe construction.

That portion of the insole comprising the heel is reinforced by the insertion of a piece of comparatively heavy leather 6 between the felt 1 and the layer of asbestos 2, while the under surface of said felt is covered with canvas 7, or other strong textile fabric, which is carried over flange 5 and cemented to the opposite sides thereof and likewise affixed to the under surface of the "feather" 4 in order to stiffen and retain the individuality of these parts.

Cement may be freely employed for the purpose of uniting the several different members forming this insole, and this may be supplemented by stitching 8 directed through all the parts from the toe to the heel and by marginal stitching 9 which retains in close relation the edges of said members.

While I have herein described the preferable location of the asbestos as being between the calf-skin (or sock-lining) and the felt, yet the right is reserved of modifying the arrangement of parts so that the asbestos will lie between the canvas cover 7 and the under surface of said felt, as shown in Fig. 4, or asbestos may be used in both the locations named.

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

An innersole designed to form an integral part of a boot or shoe, comprising a thin layer of kid or calf-skin, a layer of material adapted to prevent the penetration of heat and cold to the foot of the wearer, a relatively thick sheet of elastic and porous felt, a layer of canvas, and a piece of sole leather arranged to reinforce the heel portion, a portion of the edge of said felt being turned backward to form an upstanding flange or wale, the margin of said canvas being secured to the opposite sides of said flange and the under surface of the portion of felt projecting therebeyond, the several parts composing the sole being disposed one above another and united together by means of cement and stitching.

F. O. BROWN.

Witnesses:

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