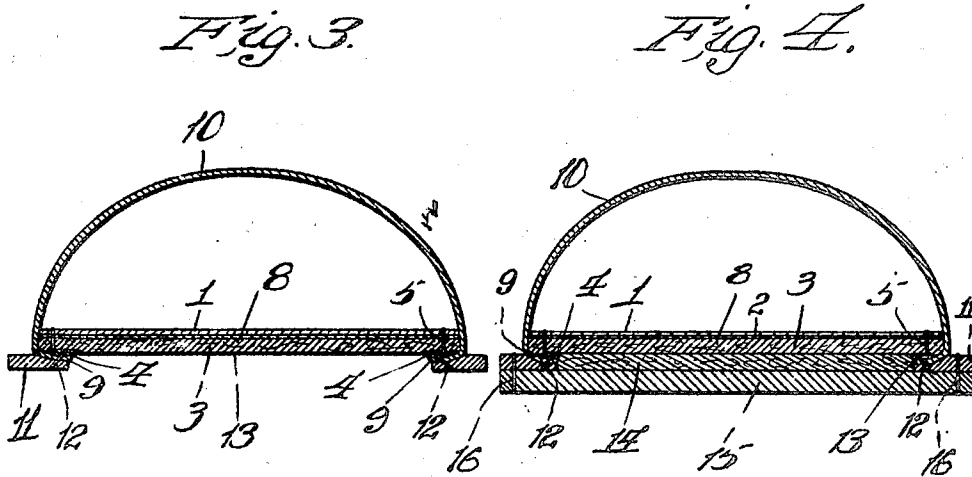
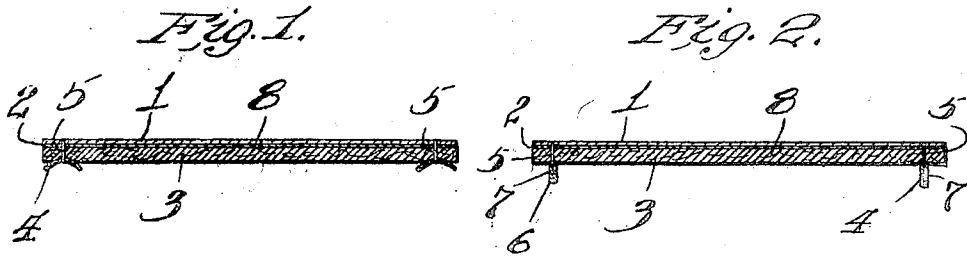


Feb. 13, 1923.

B. J. RIEFLING.
SHOE.
FILED MAY 5, 1919.

1,445,356



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UNITED STATES PATENT OFFICE.

BERNARD J. RIEFLING, OF ST. LOUIS, MISSOURI.

SHOE.

Application filed May 5, 1919. Serial No. 294,648.

To all whom it may concern:

Be it known that I, BERNARD J. RIEFLING, a citizen of the United States of America, and a resident of the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Shoes, of which the following is a specification.

The main object of this invention is to provide an improved insole for shoes that is built in the shoe, thereby forming a part thereof.

Another object is in providing an improvement in shoe construction in which a portion of the cushion insole thereof is secured to the welt of the shoe, and there being an inlay of cushioning material located between the welt secured portion of the insole and the sole of the shoe.

Other and further objects will appear in the specification and be specifically pointed out in the appended claim, reference being had to the accompanying drawings exemplifying the invention, and in which,

Figure 1 is a transverse section taken through the upper portion of the cushion insole which is secured to the welt, and showing a lip forming strip secured thereto.

Figure 2 is a view similar to Fig. 1, but showing the lip forming strip folded to form a lip for securing the cushion insole to the shoe welt.

Figure 3 is a transverse section taken through a shoe, showing the upper portion of this improved cushion insole secured to the shoe welt, and incidentally to the shoe upper.

Figure 4 is a transverse section taken through the shoe showing the complete insole secured thereto.

Referring to the drawings, the upper portion of this improved cushion insole, as shown in Figs. 1 and 2, comprises a top layer 1 of leather which is mounted over a layer 2 of non-porous material, and beneath said non-porous material is a relatively thick layer of felt 3. A lip forming strip 4 is mounted against the underside of the felt layer 3 adjacent the edge thereof, and is secured thereto by the stitching 5, said stitching passing through the layer of leather 1 and non-porous material 2.

As shown in Fig. 2, the lip forming strip 4 is folded as designated at 6 and secured in

its folded position by the stitching 7 so as to form a lip.

In securing the upper portion of this improved cushion insole to a shoe, which will be hereinafter designated by the numeral 8, the lip forming strip after being folded, as shown in Fig. 3 is mounted above the underengaging portions 9 of the shoe upper 10, said underengaging portions 9 being mounted on the shoe welt 11, and the whole is secured together by the stitching 12 which passes through the lip forming strip 4, underengaging portion 9 of the shoe upper, and shoe welt 11.

After the aforesaid operation has been carried out, a recess 13 is formed beneath the felt layer 3 of the insole, said recess being for the reception of a felt inlay or filler of felt 14 which is loosely mounted therein, said inlay being enclosed by the shoe sole 15 which is secured to the welt 11 by the stitching 16.

The mounting of the upper portion 8 of the insole and the felt inlay 14 to a shoe comprises this improved cushion insole, in which the upper portion 8 by being secured to the shoe upper and welt as related might be termed an upper sole, as it is secured to the welt as is the lower or wearing sole 15 of the shoe.

In the wearing of ordinary shoes, the flexing of the soles creates a binding action on the sole of the foot of the wearer, whereas with this improved construction of shoe, in which is contained this improved insole, the felt inlay 14, which is unsecured and loosely mounted as regards stitching and gluing to the upper insole 8 and wearing sole 15, will serve as a binding absorber relative to the flexing of the wearing sole 15, in which the binding strains thereof will not be carried to the upper portion 8 of this improved cushion insole.

Furthermore an improved cushion insole of this character, which is constructed solely of felt and secured to a shoe as described, provides an insole that will not pack or become hardened in the depressed places created by the contour of the wearer's foot, and in addition the resiliency provided by this improved felt insole will give a proper fitting relative to the contour of the sole of the foot.

What I claim is:

In shoe construction, the combination of a shoe upper, a welt therefor, a cushion insole comprised of an upper leather layer, a lower
5 felt layer, an intermediate non-porous layer, a lip forming portion bearing against the underside of said felt layer and secured thereto and to said leather layer, said lip

portion being secured to said shoe upper by the stitching of said welt thereto, a wearing 10 sole secured to said welt, and a resilient felt inlay or filler loosely mounted and unfasted between said insole and said wearing sole so that said inlay will be susceptible of independent movement.

BERNARD J. RIEFLING.