E. RUSSELL.

SHOE CUSHION SOLE.

APPLICATION FILED JAN. 31, 1914.

1,206,597. Patented Nov. 28, 1916.

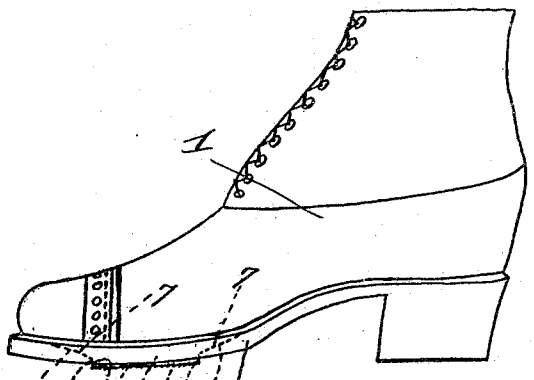


Fig. 1.

Fig 2.

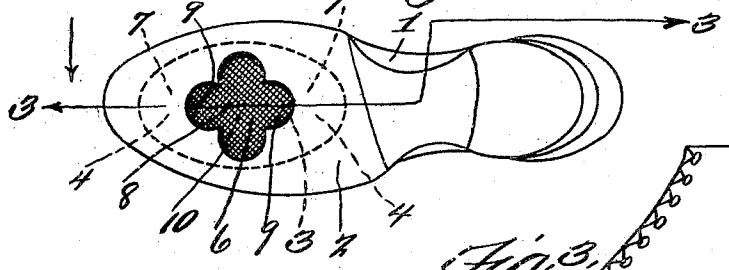


Fig. 3.

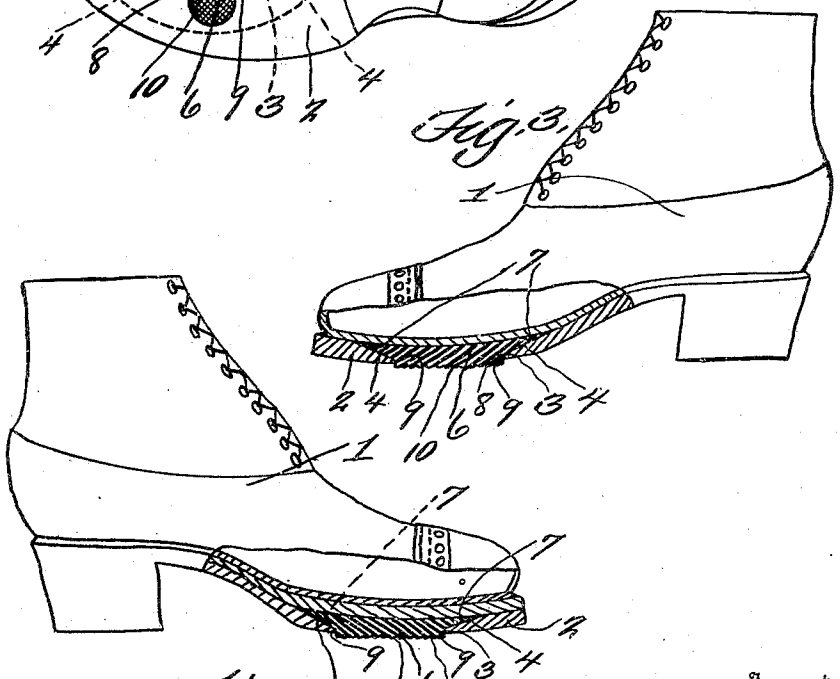


Fig. 4.

Witnesses

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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UNITED STATES PATENT OFFICE.

ERNESTINE RUSSELL, OF ALMIRA, WASHINGTON.

SHOE CUSHION-SOLE.

1,206,597. Specification of Letters Patent. Patented Nov. 28, 1916.

Application filed January 31, 1914. Serial No. 815,624.

To all whom it may concern:

Be it known that I, ERNESTINE RUSSELL, a citizen of the United States, residing at Almira, in the county of Lincoln and State of Washington, have invented a new and useful Shoe Cushion-Sole; 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.

This invention relates to a new and useful shoe cushion sole, and the object in view is to provide such a sole, applicable to any style or make of shoe.

One of the features of the invention is the provision of a cushion insert sole, arranged between the sole of the shoe and the ball of the shoe, and so constructed as to protrude through the usual leather sole of the shoe, thereby cushioning the ball of the foot of the wearer.

The details of construction may necessitate alterations, falling within the scope of what is claimed.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a view in side elevation of a shoe, showing in dotted lines the improved cushioning sole. Fig. 2 is a bottom plan view. Fig. 3 is a sectional view on line 3—3 of Fig. 2. Fig. 4 is a sectional view showing a leather insert sole arranged between two layers of the usual sole.

Referring more especially to the drawings, 1 designates the usual form of shoe, the sole 2 of which is constructed with an opening 3. The upper portion or face of the sole adjacent the edge of the opening is beveled as shown at 4, as shown in the sectional view of the drawings, and in bottom plan view of the shoe the opening is provided with four curved recesses. The insert cushioning sole 6 may be constructed of rubber, or a composition of rubber and canvas, or the like, the parts 7 of which are beveled to correspond with the bevel 4 of the sole 2 and to engage therewith, whereby the four projecting parts of the downwardly extending part 8 (which protrudes through the opening 3) form a shoulder or ridge 9. This shoulder or ridge 9 of said four projecting parts engages the edges of the four recesses of the opening 3. It is to be observed that the parts 7 are beveled and of elliptical contour. It is to be noted that the greatest wear upon the sole of the shoe is substantially directly on the ball, and should the downwardly extending part 8 be worn to the extent that the leather sole adjacent the opposite side edges thereof be worn through substantially to the welt, the side edge portions of the insert cushioning sole 6 would become detached. Therefore, to prevent this disadvantage, the insert cushioning sole is constructed elliptical, and the length of said cushioning sole is disposed with the length of the sole of the shoe, and being that the least wear is upon the forward and rear of the ball (in which case the ends of the elliptical insert sole would hardly be worn) the opposite ends of the insert sole will be prevented from displacement. Hence, the elliptical contour or construction of the insert sole is an essential and practical advantage over other soles of this character, which are circular. By means of the four projections of the downwardly extending part 8 of the insert sole, said insert sole is prevented from twisting or revolubly moving. The under face of the insert cushioning sole is corrugated as shown at 10, to prevent slipping, enabling the wearer of the shoe equipped with the improved cushioning sole to obtain a firm grip upon the surface that is walked upon.

When the insert cushioning sole becomes worn the same may be easily removed and a new one conveniently inserted, by cutting the stitches of the sole 2 on one side, in order to permit the new insert sole to be arranged in place, thereby renewing the sole of the shoe.

If desired, this improved insert sole may be constructed of leather like the sole 2, and arranged between two layers of the sole, as shown in Fig. 4. By employing an insert sole of leather as shown in Fig. 4, the sole 2 of the shoe may be easily renewed, when the insert sole becomes worn.

The invention having been set forth, what is claimed as new and useful is:—

In combination, a shoe sole proper having an opening adjacent the ball of the shoe, the upper face of the sole adjacent said opening being beveled downwardly and toward the opening, the outer edges of the bevel being elliptical in contour, and a renewable insert sole having beveled edge portions of a size and contour to correspond to the bevel of the sole and to fit the same so as to prevent twisting, the longitudinal axis of the ellipse approximating and disposed correspondingly

with the length of the sole forward of the shank and being such as to extend from diametric opposite sides of said opening considerably beyond the normal point of greatest wear of the shoe sole, the arrangement such as to prevent the insert sole from becoming detached in case of considerable wear upon the shoe sole over the insert, said insert sole having a downwardly extending portion corresponding to, fitting and protruding through said opening.

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

ERNESTINE RUSSELL.

Witnesses:
N. K. NANSEN,
JULIUS C. JOHNSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."