M. M. WEST.

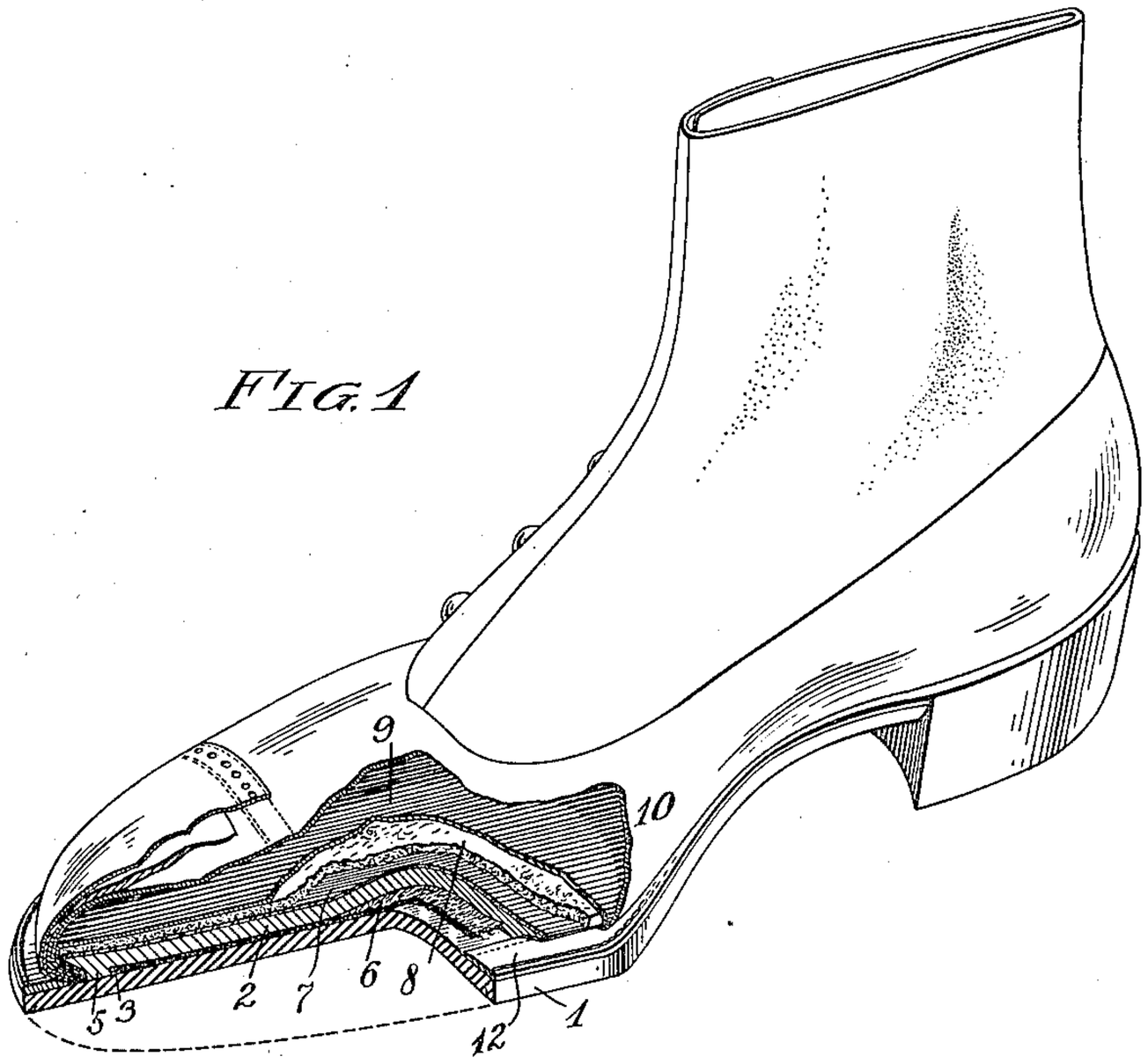
FOOTWEAR.

APPLICATION FILED JAN. 27, 1909.

960,748.

Patented June 7, 1910.

FIG. 1



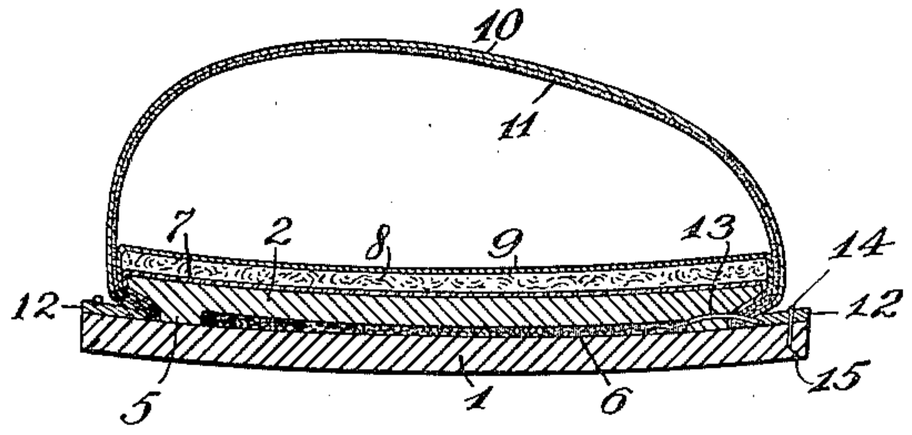


FIG. 2

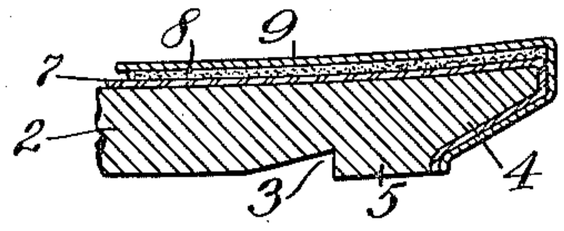


FIG. 3

WITNESSES:

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UNITED STATES PATENT OFFICE.

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FOOTWEAR.

960,748. Specification of Letters Patent. Patented June 7, 1910.

Application filed January 27, 1909. Serial No. 474,466.

To all whom it may concern:

Be it known that I, MANSFIELD M. WEST, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Footwear, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

My invention relates to articles of footwear, the object of the same being to render the sole of the shoe impervious to moisture. This object I attain by cementing or otherwise securing a sheet of rubber or other waterproof material to the upper surface of the inner sole of the shoe, said sheet being folded down about the edges of the inner sole, to which edges it is also cemented, and said sheet, as well as the upper and linings for the shoe, being held to the sole by stitches which pass through the shoe welt, the upper, the linings and the said sheet, as well as through the channeled portion of the inner sole.

My invention will be more fully understood by reference to the accompanying drawings, in which—

Figure 1 is a perspective view of a shoe, portions of the same being cut away so as to more clearly illustrate the manner in which the shoe is constructed; Fig. 2 is a cross section through the shoe; and Fig. 3 shows a section through portions of the inner sole, the waterproof sheet, the cushion, and the inner or "sock" lining.

Describing more particularly my invention by the use of the reference characters on the drawing, 1 represents the lower or outer sole, and 2 the inner sole, the latter being provided with a channel 3 and having its outer edge cut away on the under side at 4 so as to provide between said cut-away portion and the channel a bead or ridge 5. Between the channels 3 on the under side of the inner sole, the material of the said sole is either cut away or hammered down so as to form a depressed portion into which I place a filling 6 of cork, tarred felt, or any other suitable material.

Cemented to the upper surface of the inner sole is a sheet 7 of waterproof material, said sheet being preferably rubber, although my invention is not limited specifically to the use of this material for this purpose. This sheet is passed about the edges of the inner sole and is cemented to the cut-away part of said sole around the outer edges thereof, so that the said sheet lies closely against the said sole both on its upper sides and around its lateral edges, thus protecting these parts of the inner sole from the entrance of moisture thereto. Upon the said sheet 7, I place suitable cushioning material 8, such as heavy felt or lamb's wool, and upon said cushioning material I place the inner or "sock" lining 9, said lining extending beyond the edges of the cushioning material and beyond the inner sole, so that the same may be folded down alongside the edges of the waterproof sheet 7 within the cut-away portion of the inner sole. The upper 10 and the inner lining 11 therefore likewise pass down along the folded portions of the "sock" lining and the waterproof sheet, while the welt 12 surrounds the outer edges of the upper. These several parts are held together by stitches 13 which extend through the bead 5 of the inner sole from the channel 3 outwardly, through the waterproof sheet 7, the "sock" lining, the upper and its inner lining, and also through the welt, as shown in Fig. 2, said parts being thus tightly drawn together so as to prevent the entrance of moisture upwardly between the same. The outer sole 1 is then secured to the welt 12 by stitches 14, the same being hidden from view on the bottom of the sole, and also protected from wear by providing a slit 15 in the latter in which the said stitches become embedded.

In the construction of the shoe, the "sock" lining, the cushioning material, the waterproof sheet, and the inner sole are inverted and tacked upon a last, the edges of the said lining and sheet projecting beyond the inner sole. The latter is then channeled at 3 and cut away at 4, after which the upper and its lining are placed about the last and drawn in position, where they are sewed by the stitches 13 as above described. Before applying the inner sole 2 to the waterproof sheet, the latter or the sole is covered with cementing material which securely holds these parts together. After the stitches 13 have been taken, the filler 6 is placed in position between the ridges or beads 5, and the outer sole is then secured to the welt by means of the stitches 14, after which the last may be removed from the shoe.

As thus constructed, the moisture which could otherwise penetrate through the soles and reach the cushioning material and thus

dampen the inside of the shoe is arrested by the waterproof sheet 7; and as this sheet passes entirely about the upper surface and the edges of the inner sole, no moisture which may penetrate to the inner sole is enabled to reach the cushioning material. This is a feature of my invention that is of great advantage, as the cushioning material of a shoe when once wet can scarcely ever be dried out again, and, when in wet condition it wrinkles under the foot of the wearer and makes the shoe very uncomfortable. Furthermore, the moisture in the cushioning material expands the "sock" lining, causing it to wrinkle and to thus greatly increase the uncomfortableness of the shoe.

The water enters the shoe most freely about the welt, upon which it lies until absorbed by the leather. By turning the waterproof sheet down under the cut-out part of the inner sole and carrying the same down to the outer sole, as shown, the water that enters the shoe about the welt is prevented from being absorbed upwardly by the inner sole, but is directed downwardly to the outer sole into which it drains.

While in the claims, I have employed the term "shoe," I mean that this term shall be considered as applying to any and all articles of footwear.

Having thus described my invention, what I claim is:

1. In a shoe, the combination with an outer sole, of an inner sole having its lower surface channeled, the sole inside the channel being depressed, filling occupying said depressed part of the inner sole and resting upon the outer sole, the outer edges of the inner sole being cut away so as to form a bead between said cut-away portion and the channel, a sheet of water-proof material covering the upper surface of the inner sole, said sheet passing about the edges of the inner sole and extending substantially to the outer sole, an inner or sock lining, said lining also extending downwardly parallel with the edges of the said sheet, means covering the upper surface of the said sheet and separating the latter from the sock lining, a welt extending about the edges of the upper and resting on the edge of the outer sole, stitches passing through the welt, the upper, the water-proof material and the bead of the inner sole, and means for securing the outer sole to the welt.

2. In a shoe, the combination with the outer sole, the inner sole having its lower surface channeled and the part between the channels depressed, filling occupying said depressed part of the inner sole and resting upon the outer sole, the outer and lower edges of the inner sole being cut away so as to form a bead between the said cut away portion and the channel, a sheet of rubber cemented to the upper surface of the inner sole, said sheet passing about the edges of the inner sole and being cemented to the cutaway portion of the latter, cushioning material resting upon the said sheet, an inner lining covering the said cushioning material, said lining extending downwardly parallel with the edges of the said sheet, an upper, an inner lining for the upper, said upper and its lining extending downwardly alongside the lining for the cushioning material, a welt extending about the edges of the upper and resting upon the edge of the outer sole, stitches passing through the welt, the upper, the linings, the rubber, and the bead of the inner sole, and additional stitches passing through the welt and the outer sole.

In testimony whereof, I hereunto affix my signature in the presence of two witnesses.

MANSFIELD M. WEST.

Witnesses:
E. M. HAWTHORNE,
G. W. WEST.