J. V. MATTOS.

SHOE.

APPLICATION FILED MAR. 20, 1917.

1,257,091.

Patented Feb. 19, 1918.

2 SHEETS—SHEET 1.

Fig. 1.

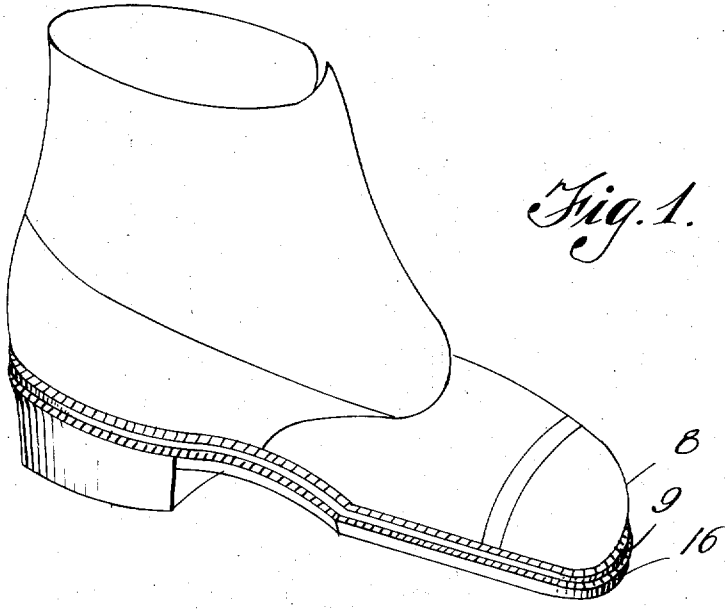
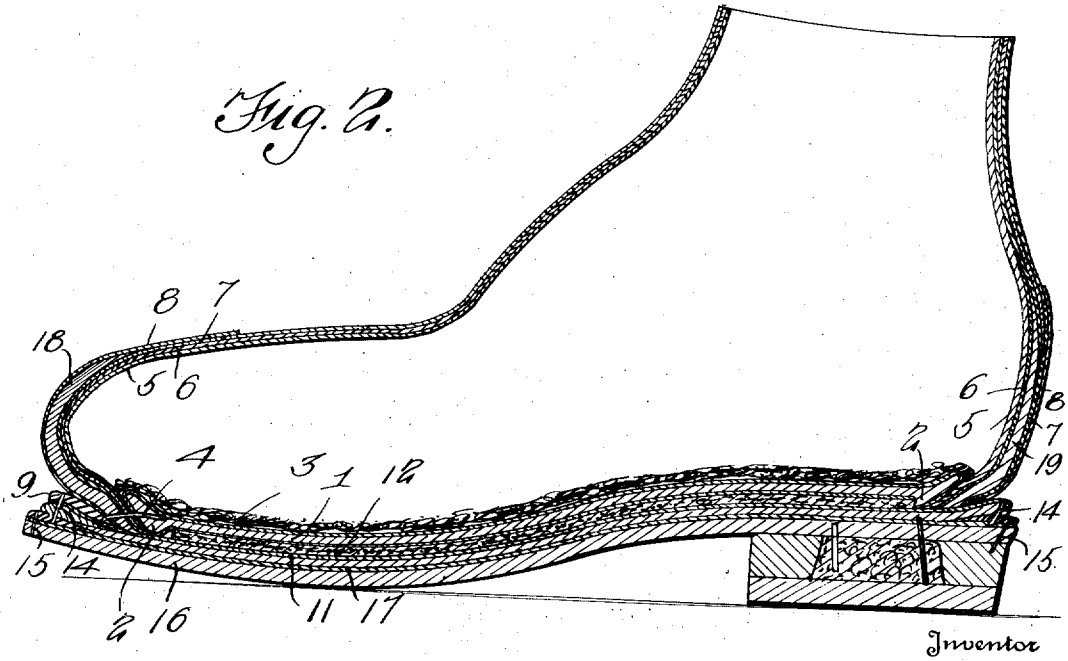


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 5.

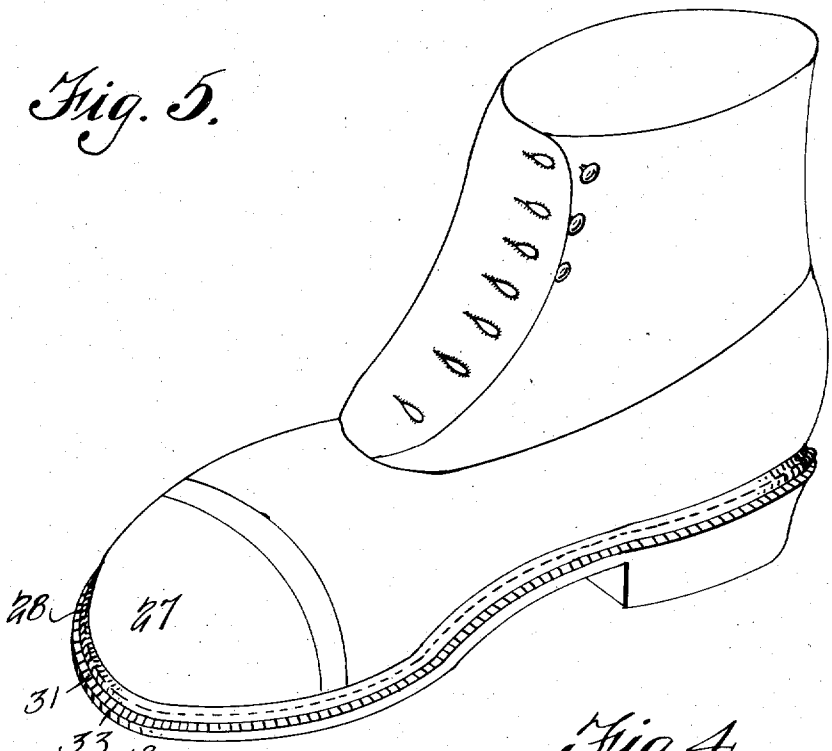


Fig. 4.

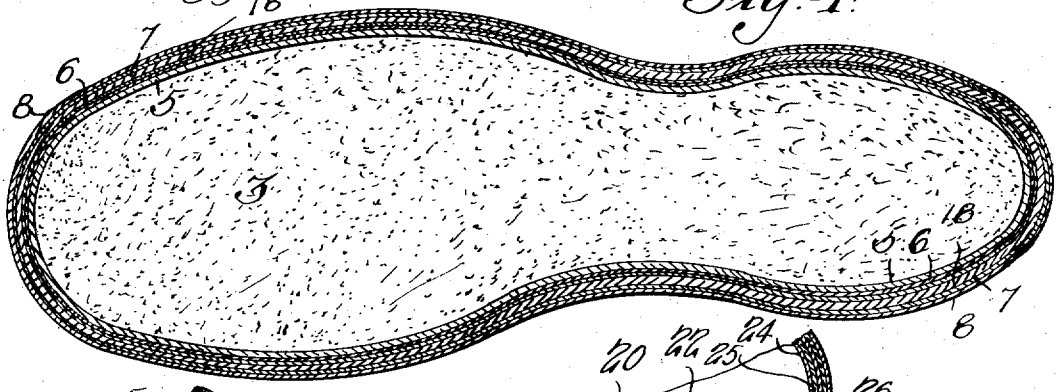


Fig. 3.

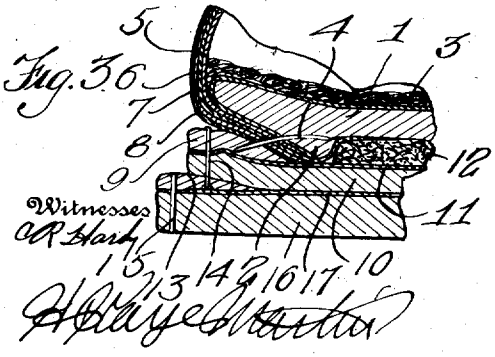
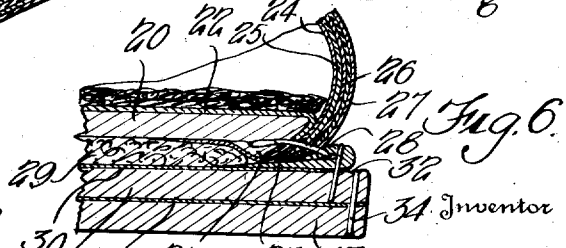


Fig. 6.



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UNITED STATES PATENT OFFICE.

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1,257,091. Specification of Letters Patent. Patented Feb. 19, 1918.

Application filed March 20, 1917. Serial No. 156,036.

To all whom it may concern:

Be it known that I, JOHN V. MATTOS, a citizen of the Republic of Portugal, residing at Taunton, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Shoes; 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 new and useful improvements in shoes, and the principal object of the invention is to provide a waterproof shoe.

Another object of the invention resides in the provision of a shoe in which the sole is cushioned.

A further object of the invention is to provide a particularly strong and durable shoe which is constructed for warmth.

With the foregoing and other objects in view this invention consists in such novel features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings and claimed.

In describing the invention in detail reference will be had to the accompanying drawings wherein like characters designate like and corresponding parts throughout the several views, and in which:

Figure 1 is a perspective view of a shoe constructed in accordance with this invention, showing the same with the double sole,

Fig. 2 is a longitudinal sectional view through Fig. 1,

Fig. 3 is a fragmentary transverse sectional view through the toe portion of Fig. 1,

Fig. 4 is a horizontal sectional view through Fig. 1,

Fig. 5 is a detail perspective view of a shoe, showing the same constructed with a single sole, and

Fig. 6 is a fragmentary sectional view through the toe portion of Fig. 5.

Referring to the drawings, 1 designates the inner sole provided with the usual rib 2. The insole cover is designated by the numeral 3, and is sewed to the rib by suitable stitches 4. The stitches 4 extend through the lining 5 of the upper, which is provided with a rubber cover 6, which is extended around the rib, as illustrated in Fig. 3, and up against the under side of the sole 1. A fabric body 7 is stitched on the outer side of the rubber 6, and the whole is covered with an outer cover 8 formed of leather. Secured to the edge of the cover 8 by means of the stitches 4 is a welt 9, which forms the attaching means for the soles, which will be more fully hereinafter described.

The soles previously referred to consist of the intermediate sole 10, having secured to its inner face a rubber sheet 11, which extends to the edge of the sole and contacts with the portion of the rubber sheet 6 which extends around the rib 2. A cork cushion 12 is imposed upon the upper side of the rubber sheet 11 and fills the space between the soles 1 and 10. A second welt 13 is sewed to the under side of the sole 10 adjacent its edge by means of the stitches 14, which form the attaching means for the sole to the upper, and this second welt receives the stitches 15 by means of which the wear or outer sole 16 is secured in place. A rubber sheet 17 is interposed between the intermediate and outer soles, as clearly shown in the drawings. At the toe a suitable boxing of leather 18 is interposed between the fabric body 7 and the cover 8, and at the heel of the shoe the usual counter 19 is interposed between the fabric body and the outer cover, as clearly illustrated in Fig. 2.

In the form of shoe just described it will be seen that the effect from the exterior will be of having ordinary outer soles. In Fig. 5 a shoe having a single outer sole is illustrated, and is constructed generally in the same manner, but differs in the finish of the shoe. In this form the inner sole is designated by the numeral 20, and is provided with the usual rib 21. This sole is covered by the insole cover 22, which extends over the rib and is held thereto by means of the stitches 23. These stitches also serve to hold the lining 24 of the upper in place. The lining 24 is covered by

a sheet of rubber 25, or any other suitable water-proofing material, which extends around the welt and up between the inner and intermediate soles for a short distance, as clearly illustrated in Fig. 6. A fabric body 26 is secured to the upper on the outer side of the rubber sheet 25, and the whole is covered by a leather cover 27, which, like the layers previously described, are held in place by the stitches 23. A welt or strip of flexible leather 28 is attached to the upper at its lower edge by means of the stitches 23, and this welt or strip is then bent back upon itself, as clearly shown in the drawings, and the bent back edge is positioned between the intermediate and the inner soles. Filling the space between the intermediate and inner sole and the welt formed on the inner sole is a cork cushion 29, having secured to its under side a rubber strip 30, which in turn has imposed on its under side the intermediate sole 31, which is secured to the upper and inner sole by means of stitches 32 extending through the sole and the bent back portion 28 of the welt or strip. The outer sole 33 is then attached to the intermediate sole by means of stitches 34 and a strip of rubber 35 is interposed between the intermediate and outer soles.

It will be understood that the boxing in the toe portion and the counter in the heel portion of the upper may be used in the construction of shoe illustrated in Fig. 5 as well as that shown in Fig. 1, without departing from the spirit and scope of the invention. As indicated in Fig. 2 it will be seen that the rubber lining of the upper extends only to a point slightly above upper edge of the counter, and thus the shoe is waterproofed and will avoid the necessity of wearing overshoes, or the like.

It will be apparent from the foregoing that a particularly strong and durable shoe is provided, which, owing to the insole cover 3 being formed of sheep skin with the wool left thereon, it will provide a particularly warm shoe, and owing to the position of the rubber lining, it will render the shoe water proof, thus providing a shoe which is particularly adapted for use in cold climates. It will be further seen that owing to the double sole the wearing qualities of the shoe will be considerably enhanced and the appearance may be made to suit the desire of the user without in any way interfering with the advantages of the double sole.

From the foregoing description taken in connection with the accompaying drawings the advantages of construction and of the method of operation of the improved shoe will be readily apparent to those skilled in the art to which this invention appertains, and, while in the foregoing description, the principle of the operation of this invention has been described together with various features of construction, it is to be understood that certain minor features of construction, combination and arrangement of parts may be altered to suit practical conditions provided such alterations are comprehended within the scope of what is claimed.

What I claim is:

1. In a shoe, an inner sole, an insole cover secured to the inner sole, a rib at the edge of the inner sole, an upper comprising a lining, a water-proofing material covering the lining, an upper body covering the water-proofing material, and an outer cover covering the body, and a welt at the edges of the upper all being secured to the rib by stitches, a water-proofing sheet extending around the rib, an intermediate sole, a water-proof sheet on the under side of the intermediate sole engaging the water-proof sheet of the upper, a cork cushion on the upper side of the water-proof sheet on the intermediate sole, said cushion filling the space between the inner sole and the intermediate sole, a second welt at the edge of the intermediate sole, stitches securing the second named welt and the intermediate sole together and securing the intermediate sole to the rib, and an outer wear sole stitched to the second named welt of the intermediate sole.

2. In a shoe, an inner sole, an insole cover secured to the inner sole, a rib at the edge of the inner sole, an upper comprising a lining, a water-proofing material covering the lining, an upper body covering the water-proofing material, and an outer cover covering the body, and a welt at the edges of the upper all being secured to the rib by stitches, a water-proofing sheet extending around the rib, an intermediate sole, a water-proof sheet on the under side of the intermediate sole engaging the water-proof sheet of the upper, a cork cushion on the upper side of the water-proof sheet on the intermediate sole, said cushion filling the space between the inner sole and the intermediate sole, a second named welt at the edge of the intermediate sole, stitches securing the second named welt and the intermediate sole together and securing the intermediate sole to the rib, an outer wear sole stitched to the welt of the intermediate sole, and a sheet of water-proof material securing the intermediate and outer soles.

3. A shoe comprising an inner sole having a rib formed thereon at its edge, an insole cover attached to the rib and covering the inner side of the inner sole, an upper lining secured to the rib, a piece of water-proof material covering the upper lining and extending around the rib and partially under the inner sole thereof, a fabric body attached to the rib, an upper cover covering the body, a welt secured to the rib at the edges of the upper cover, a sole secured to the welt, a

water-proof sheet on the upper side of the sole, said sheet engaging the lower side of the water-proof sheet of the upper to form a water tight connection between the upper and sole, a cushion between the water-proof sheet on the sole and the inner sole, said cushion being positioned within the rib to fill the space formed thereby, and an outer sole secured to the last named sole and a rubber sheet between the outer and inner soles.

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

JOHN V. MATTOS.

Witnesses:
EMILY L. TAYLOR,
WILLIAM A. BELLANY.