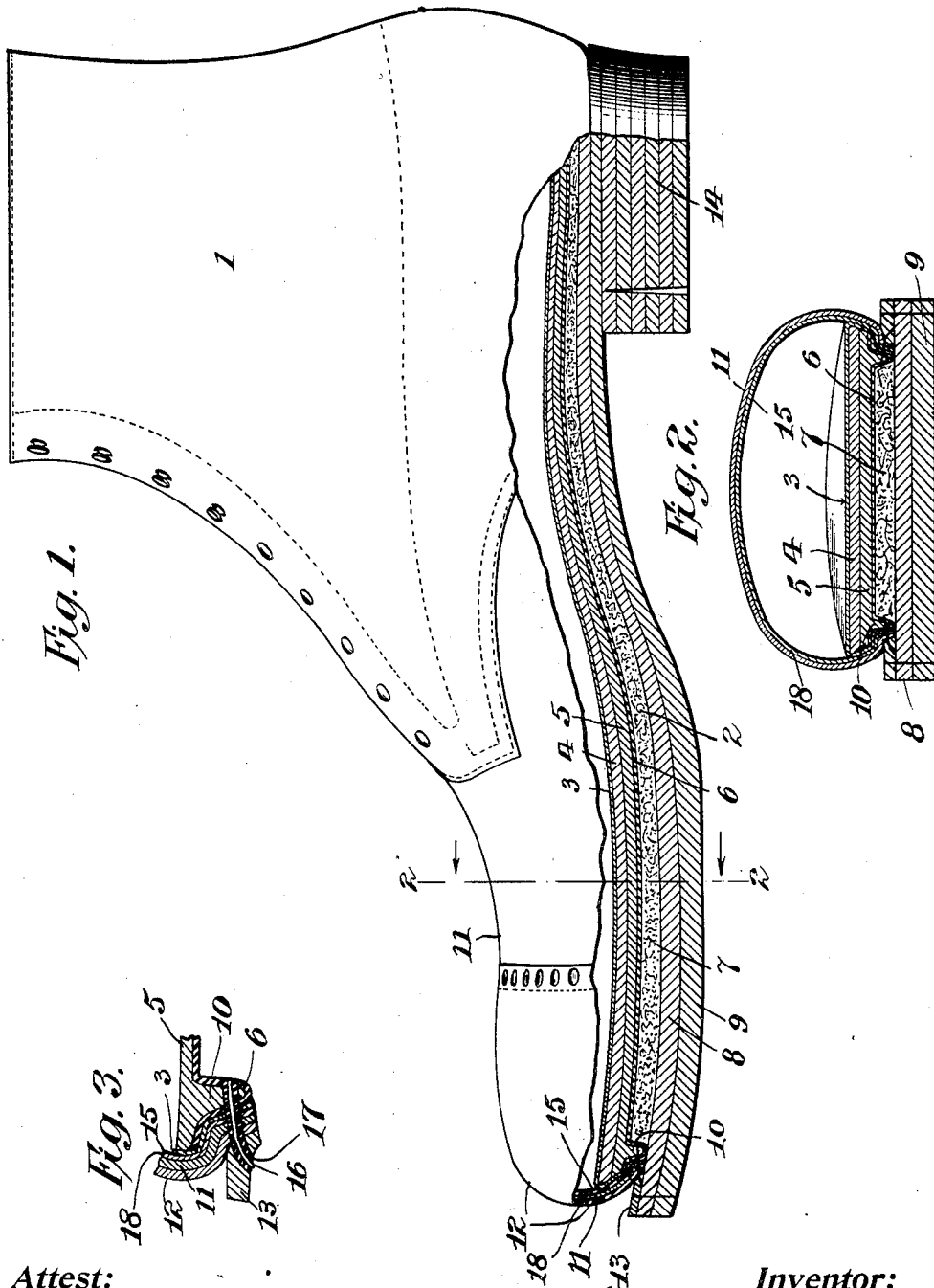


L. Q. WHITE.
SHOE.

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898,710.

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UNITED STATES PATENT OFFICE.

LORING Q. WHITE, OF BROCKTON, MASSACHUSETTS.

SHOE.

No. 898,710.

Specification of Letters Patent.

Patented Sept. 15, 1908.

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To all whom it may concern:

Be it known that I, LORING Q. WHITE, a citizen of the United States, and a resident of the city of Brockton, county of Suffolk, State of Massachusetts, have invented new and useful Improvements in Shoes, of which the following is a specification.

My invention relates to waterproof shoes and it has for its object to produce a shoe which is waterproof and impervious to moisture and which will keep the foot of the wearer at even temperature.

In the construction of the device embodying my invention I provide a sole which is so made and attached to the upper that moisture can not pass through any of the seams or holes to the inside of the shoe. The holes formed in attaching the different parts of the shoe together are filled with a water proof substance. Furthermore I provide a composite cork and leather insole made water proof by a sheet of rubber and separated from the outer sole by elastic cushion of water proof material. The upper part of the shoe is lined with oiled silk.

The invention consists in the features set forth in the claims and which are also illustrated in the drawing and described in the specification.

Referring to the drawings Figure 1 illustrates a shoe partly in section which illustrates one embodiment of my invention. Fig. 2 is a cross-section of the shoe taken along the line 2, 2 of Fig. 1 and looking toward the toe of the shoe. Fig. 3 is an enlarged view of a section of the shoe showing the manner of making the seams and showing the thread, holes and seams filled with waterproof material.

1, Fig. 1, of the drawings indicates the upper of the shoe.

8 and 9 indicate the sole of the shoe and 14 indicates the heel.

11 indicates the toe of the shoe and 12 is the cap for protecting the toe of the shoe.

18 is the vamp or shoe lining proper.

The shoe is provided with an insole which is of a composite character. The insole consists of a leather strip 5 which extends from the toe to the back part of the heel of the shoe and across the shoe. A ridge 10 is struck up from the lower side of the leather strip and it is cupped out and forms a firm body to which may be securely fastened the parts of the shoe. A waterproof rubber coat or layer 6 is attached to the said leather sole

with a waterproof cement. It is pressed over and fitted to the said ridge and extends to the outer edge of the said insole. Above the insole is placed a layer of cork 4 which also extends from the toe to the back of the heel and is also attached to the leather part of the insole by waterproof cement. The insole is covered with a leather covering 3 which extends from the lower side or edge of the ridge and around the edges of the said rubber lining and leather and cork layer and over the surface of the insole and is attached to all of said parts by a waterproof cement, preferably para rubber.

The upper is composed of the leather 11 and the vamp 18. It is lined with a waterproof material such as oiled silk 15. A welt 13 is also placed along the edge of the upper and the parts are attached together by a thread being sewed through the said parts and the ridge 10 which forms a part of the insole. The thread 16 passes through the rubber coat located on each side of the ridge, the ridge, the leather covering of the insole, the oiled silk, the vamp and the welt. In order that the parts that are attached together may be made perfectly waterproof, the seams and the thread holes are filled with a waterproof material such as para rubber which is accomplished by forcing it in all the interstices and spaces by using great pressure. The thread holes and seams are thus filled as shown in Fig. 3.

The free edge of the welt 13 is pounded down into position and is made ready to be attached to the soles 8 and 9. The space formed by the striking up of the ridge 10 and located between the rubber coat of the insole and the upper surface of the out-sole 8 and 9 is filled with tarred felt 7. This makes a cushion as well as a waterproof protection of the insole and keeps the foot of the wearer perfectly dry, and fills the space formed by striking up the ridge whereby and to which the parts of the shoe are secured.

The upper of the shoe is attached to the soles 8 and 9 by sewing the welt around the outer edge of the soles. This arrangement produces a perfectly waterproof shoe and prevents any dampness from entering the shoe and keeps the foot of the wearer of the shoe at an even temperature.

What I have described is merely one form of the embodiment of my invention and the drawing merely illustrates the application of my invention. The invention may be

modified by those skilled in the art without departing from the spirit thereof.

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

- 5 1. In a shoe the combination of an upper, a vamp and a waterproof lining, a composite insole, the upper part of the said insole being composed of cork and covered by a layer of leather, the lower part of the said insole being
10 composed of leather and having a ridge struck up therefrom, the said ridge and the lower surface of the said insole being covered with rubber, the said parts of the composite insole sewed together and the insole and upper
15 and lining; being secured together by sewing through the said ridge, the seams and needle holes being filled with a waterproof material.

2. In a shoe the combination of an upper,

a vamp, an oiled lining, a composite insole 20 formed of a leather piece having a ridge, a strip of cork, a leather covering the top and a rubber sheet covering the bottom of the said insole, a welt, the said parts attached together by a waterproof thread and the 25 seams filled by a waterproof material, a tarred felt cushion located underneath the said insole and filling the space formed by the said ridge, outer soles attached to the said welt.

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

LORING Q. WHITE.

Witnesses:

JENNIE THOMPSON,
DORA OPPENHEIM.