Dec. 2, 1924. 1,517,610

C. O. BAYLESS

RESILIENT INSERT FOR SHOES

Filed Oct. 2. 1922

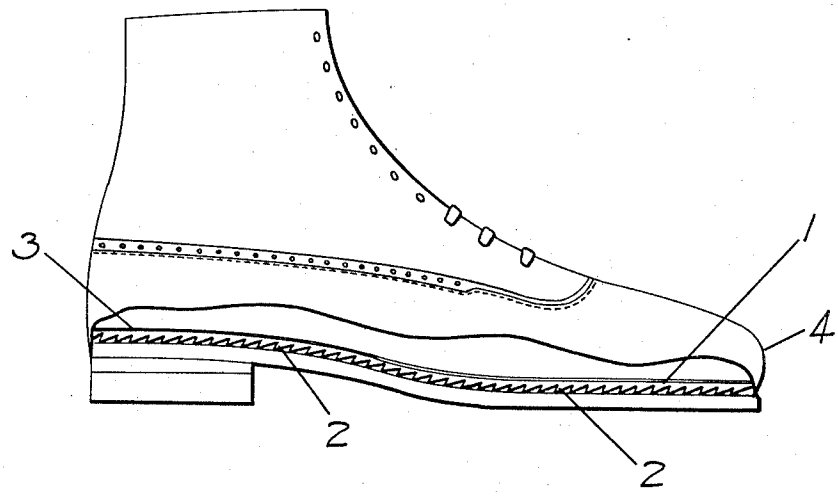


FIG. 1

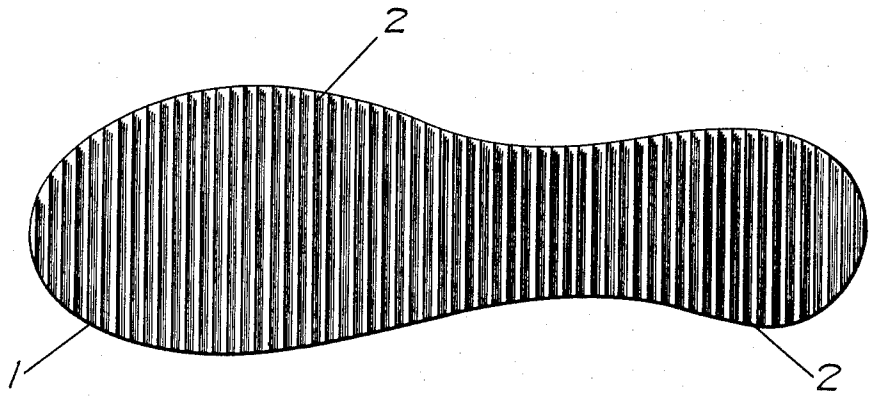


FIG. 2

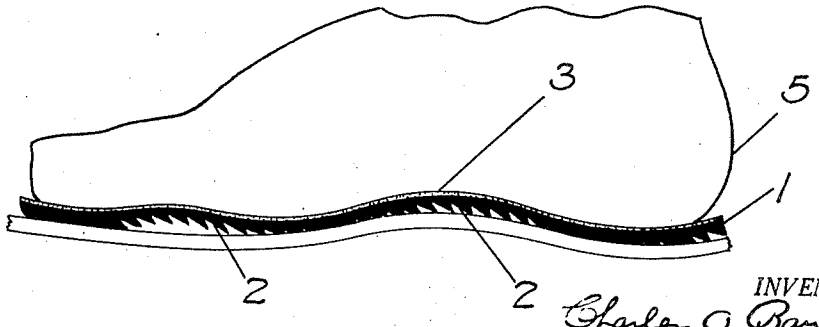


FIG. 3

INVENTOR,
Charles O. Bayless,
BY Howard P. Smith
His ATTORNEY.

Patented Dec. 2, 1924. 1,517,610

UNITED STATES PATENT OFFICE.

CHARLES O. BAYLESS, OF DAYTON, OHIO, ASSIGNOR OF ONE-HALF TO WALTER H. GERDES, OF DAYTON, OHIO.

RESILIENT INSERT FOR SHOES.

Application filed October 2, 1922. Serial No. 591,743.

To all whom it may concern:

Be it known that I, CHARLES O. BAYLESS, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Resilient Inserts for Shoes, of which the following is a specification.

It is the principal object of my invention to provide a resilient insert for shoes which insures the proper ventilation of the same as well as an air cushion for the foot. It prevents the foot from coming in contact with the hard surface of the sole of the shoe, thereby protecting it from soreness and aches. It will also keep the foot dry when the sole of the shoe is wet, and will contribute to keeping the foot warm in winter and cool in summer.

Other important and incidental objects will be brought out in the following specification and particularly set forth in the subjoined claim.

In the accompanying drawings, Figure 1 is a side elevational view of a shoe, partly broken away to show my resilient insert in place therein. Figure 2 is a bottom plan view of said insert. And Figure 3 is a side elevational view of said insert, showing how it resiliently supports the foot.

Throughout the specification and drawings, similar reference characters denote corresponding parts.

Referring to the accompanying drawings for a detailed description of my invention, the numeral 1 designates a strip made of rubber or other resilient material which is cut to the shape of the sole of a foot. The strip 1 is molded or otherwise formed with a series of transverse ridges 2 on its bottom portion, each one of which is triangular in cross section. These ridges incline or point in the direction of the heel portion of the strip 1, so that they may be more readily compressed by the forwardly moving foot when the shoe contacts with the ground.

The upper surface of the strip 1 is glued or otherwise suitably secured to a sheet 3 of pressed cork or like material that has the same shape as said strip. The sheet 3 is inserted in a shoe 4 in such a manner that the ridges 2 on the strip 1 will project downwardly as shown in Figure 1.

When a shoe containing my insert contacts with the ground, the full shock of that contact will not be transmitted to the foot because of the air cushions formed between the ridges 2 of the strip 1. When the pressure of the foot 5 is exerted upon these ridges at the places indicated in Figure 3, they will be forced toward each other, with the result that the air which is between them will be pressed out at the side to ventilate the shoe and cool the sides of the foot.

The ridges 2 are triangular in cross section to present sharp, rather than flat, lower edges to the sole of the shoe in order that they may with less friction be forced toward each other when the pressure of the foot is exerted upon them. There is thus added to the resiliency of the material of which the strip 1 is made, the cushion effect which the air between the ridges 2 has when that air is compressed by them.

Having described my invention, I claim:

A resilient insert for shoes, comprising a strip of elastic material having on its bottom portion a series of sharp downwardly and rearwardly projecting transverse ridges triangular in cross section.

In testimony whereof I have hereunto set my hand this 30th day of September, 1922.

CHARLES O. BAYLESS.

Witness:

HOWARD S. SMITH.