S. R. ROGERS.

SPRING INSOLE FOR SHOES.

APPLICATION FILED JAN. 24, 1921.

1,399,153. Patented Dec. 6, 1921.

Fig. 1

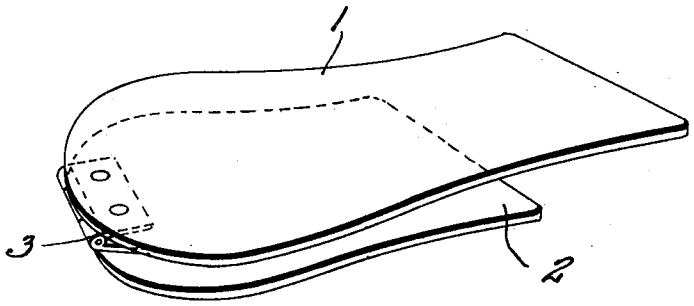


Fig. 2

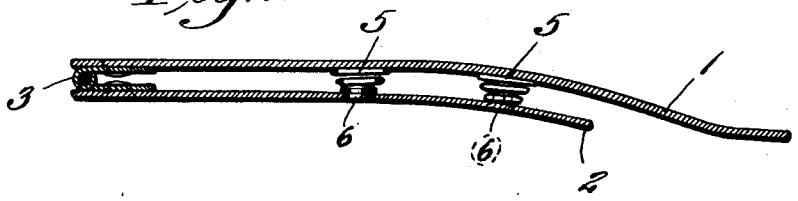


Fig. 3

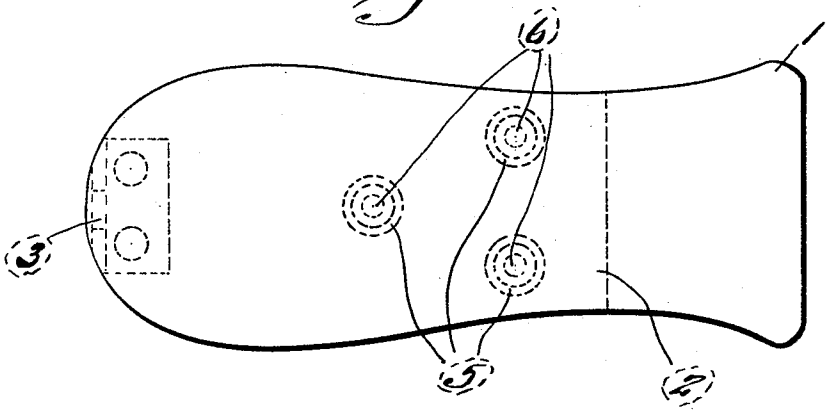
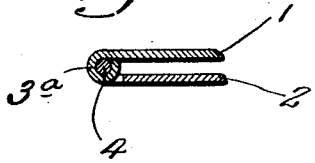


Fig. 4



Inventor

Samuel R. Rogers

By F. R. Cornwall Atty.

UNITED STATES PATENT OFFICE.

SAMUEL R. ROGERS, OF DE SOTO, MISSOURI, ASSIGNOR OF ONE-HALF TO C. HOHMAN MAHN, OF DE SOTO, MISSOURI.

SPRING-INSOLE FOR SHOES.

1,399,153. Specification of Letters Patent. Patented Dec. 6, 1921.

Application filed January 24, 1921. Serial No. 439,399.

To all whom it may concern:

Be it known that I, SAMUEL R. ROGERS, a citizen of the United States, residing at De Soto, Jefferson county, Missouri, have invented a certain new and useful Improvement in Spring-Insoles for Shoes, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a detail view of my improved spring insole.

Fig. 2 is a vertical sectional view through the same.

Fig. 3 is a plan view.

Fig. 4 is a detail view of a modified form of hinge.

This invention relates to a new and useful improvement in spring insoles for shoes, the object being to construct a device of the character described so that it will form substantially a solid or rigid support at the rear extremity of the heel portion, the forwardly extending leaf or plate being yielding so as to yieldingly support the shank of the foot.

In the drawings, 1 indicates the top supporting plate which may be curved and shaped to accommodate itself to the wearer's foot. 2 is the bottom plate, which is preferably shorter than the top plate. The rear ends of these plates are connected together by a hinge 3 which may be secured in position, or the eyes of the hinge 3^a, shown in Fig. 4, may be formed integral with the top and bottom plates, using a pintel 4.

5 indicates spirally coiled springs secured to the bottom plate by means of rivets 6, the heads of which hold the springs in position against displacement. There are, preferably, three of these springs, as shown in Fig. 3, and these springs are also preferably disconnected from the top plate, said top plate being supported by the springs and yielding under the weight or pressure of the wearer's foot.

What I claim is:

1. An insole comprising two plates hinged together at their rear ends, and yielding means interposed between said plates at points spaced from their rear ends.

2. An insole comprising two plates hinged together at one end so as to provide a substantially rigid support at the extremity of the heel, said plates being of different lengths, and yielding means interposed between said plates at a point spaced from their hinged end so as to provide a yielding support adjacent to said point.

3. An insole comprising a substantially flat foot supporting member adapted to extend forwardly from the rear of a shoe counter, a relatively short shoe engaging element beneath said member, substantially parallel therewith and hinged to the rear end thereof, and resilient means between said member and the forward end of said element.

In testimony whereof I hereunto affix my signature this 13th day of January, 1921.

SAMUEL R. ROGERS.