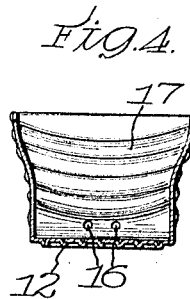
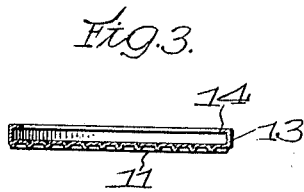
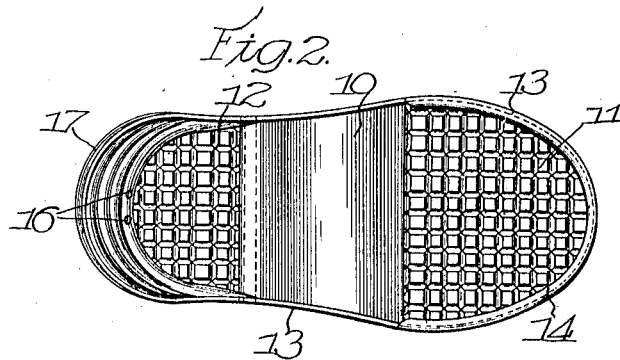
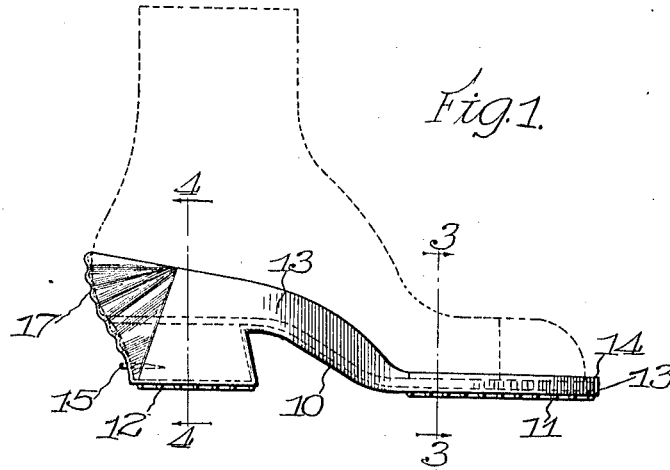


L. A. BILGER.  
RENEWABLE SOLE FOR SHOES.  
APPLICATION FILED APR. 14, 1911.

1,034,960.

Patented Aug. 6, 1912.



Witnesses:  
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Attys.

# UNITED STATES PATENT OFFICE.

LUKE A. BILGER, OF CHICAGO, ILLINOIS.

RENEWABLE SOLE FOR SHOES.

1,034,960.

Specification of Letters Patent.

Patented Aug. 6, 1912.

Application filed April 14, 1911. Serial No. 621,033.

*To all whom it may concern:*

Be it known that I, LUKE A. BILGER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Renewable Soles for Shoes, of which the following is a specification.

My invention relates to improvements in shoes, and has especial reference to means for protecting new shoes or repairing partially worn shoes.

One of the objects of my invention is to provide renewable soles for shoes, and especially for partially worn shoes, that may be easily and quickly applied without the use of especial tools or the skilled services of an artisan.

Other and further objects of my invention will readily become apparent to persons skilled in the art from a consideration of the specification taken in conjunction with the drawing, wherein;

Figure 1 is a side elevation of the device showing a shoe in dotted lines; Fig. 2 is a plan view; Fig. 3 is a cross sectional view, taken on line 3—3 of Fig. 1; Fig. 4 is a similar view, taken on line 4—4 of Fig. 1.

In all of the views the same reference characters indicate similar parts.

My invention consists substantially of an armor, preferably metallic, for shoes and is especially adapted to be used on relatively coarse shoes, or brogans, of workmen.

It is adapted for engagement with the sole of the shoe by the provision of an integral inturned vamp portion which overlies the projecting edge of the sole, and is held in place at the heel by means of pins or a staple, taking through the wall of the device into the leather heel of the shoe.

The article is preferably made of one piece of sheet metal, such as steel or the like, providing a sole portion of substantially the same configuration as the bottom of the standard shoes, of a given class. The tread of the sole portion is corrugated longitudinally and transversely as at 11, to render the sole more elastic, staunch, and to prevent slipping. It is also similarly corrugated under the heel, as at 12. The corrugations are present on the inner surface of the device. The inner corrugations prevent shifting of the leather shoe sole within the metallic armor device. The toe portion of the device is upturned, vamp like, as at 13

to encompass and overlie the leather sole of the shoe.

After the device has been applied to a shoe the inturned part 14 of the vamp may be driven down, as with a hammer, into more intimate contact with the projecting edges of the leather sole and the staple, 15, may be driven through perforations 16 provided in the wall of the heel part and into the leather heel of the shoe. The heel portion is corrugated, as at 17, to strengthen this portion of the structure and to serve as a means, in addition to the staple 15, to prevent the relative up and down movement of the shoe and the device as the wearer walks.

The device is preferably made of sheet steel and is blackened, by any usual process, to resemble leather. The device may be temporarily applied to a relatively new shoe to protect it from excessive wear, as when the wearer is spading, walking over rough stony surfaces, or performing other labor of like nature that would entail hard or severe wear upon the leather sole of the shoe.

One pair of uppers usually lasts longer than many of the ordinary leather soles of shoes, therefore, my metal structure may be advantageously applied to such worn shoes, and by their use much more useful service may be had from a pair of shoes with a very slight increase in cost.

Having described my invention, what I claim is;

1. A device of the character described, comprising, in an integral sheet metal structure, sole, heel and vamp parts, the vamp part partially surrounding the toe part of the sole and providing an inturned edge to overlie the laterally extending sole of a shoe, said inturned portion of the said device being adapted and arranged to be pressed down into intimate contact with the upper surface of the laterally extending sole of the shoe.

2. A device of the character described, comprising in an integral structure, sole, heel and vamp parts, the vamp part partially surrounding the toe part of the sole and being inturned and pressed down into intimate engagement with the upper surface of the laterally projecting sole of the shoe, and the heel part perforated for attaching means to extend therethrough into the heel of the shoe.

3. A device of the character described, comprising, in an integral structure, sole,

heel and vamp parts for coaction with the  
sole, heel and vamp of a shoe, said vamp  
part providing an edge for engagement in  
the upper surface of the sole of the shoe,  
5 and said heel portion providing corruga-  
tions for gripping the surface of said heel  
of the shoe.

In testimony whereof I hereunto set my  
hand in the presence of two witnesses.

LUKE A. BILGER.

In the presence of—

FORÉE BAIN,

MARY F. ALLEN.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,  
Washington, D. C."

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