

No. 825,515.

PATENTED JULY 10, 1906.

M. BYRNE & W. G. YOUNG.  
SPRING HEEL CUSHION FOR SHOES.

APPLICATION FILED AUG. 17, 1905.

FIG. 1

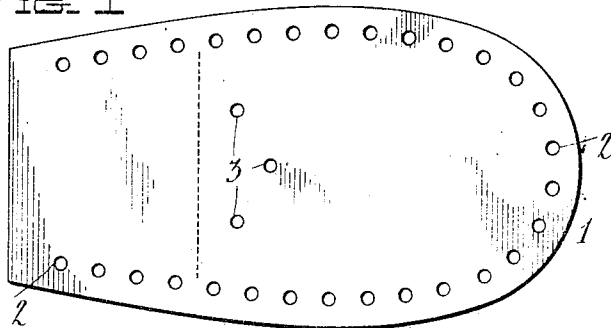


FIG. 2

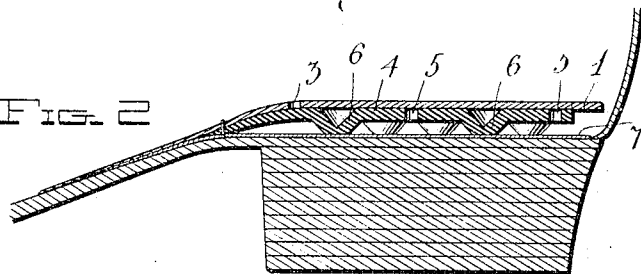


FIG. 3

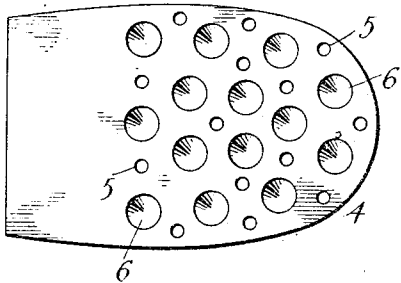


FIG. 4

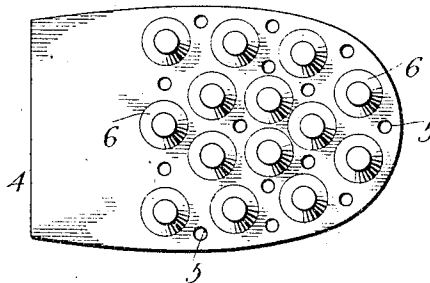
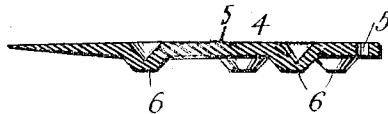


FIG. 5



Witnesses:

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# UNITED STATES PATENT OFFICE.

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## SPRING-HEEL CUSHION FOR SHOES.

No. 825,515.

Specification of Letters Patent.

Patented July 10, 1906.

Application filed August 17, 1905. Serial No. 274,600.

*To all whom it may concern:*

Be it known that we, MATHEW BYRNE and WILLIAM G. YOUNG, citizens of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Spring-Heel Cushions for Shoes; and we do 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 spring-heel cushions for shoes.

The object of the invention is to provide a cushion adapted to be arranged in the heel of shoes to form an elastic tread for the same.

A further object is to provide means in combination with the cushion whereby the shoe will be ventilated.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a plan view of a heel-insole, showing the arrangement of the ventilating-apertures. Fig. 2 is a longitudinal vertical sectional view of the same and the heel-cushion attached thereto. Fig. 3 is a plan view of one side of the cushion. Fig. 4 is a similar view of the opposite side of the cushion, and Fig. 5 is a longitudinal vertical sectional view of the cushion.

Referring more particularly to the drawings, 1 denotes a heel insole or plate around which and adjacent to the edges thereof is formed a series of apertures 2, similar apertures 3 being formed in the center and near the forward end of the same.

Below the insole-plate 1 and attached thereto at its forward end, preferably by means of stitching, is a cushion-plate 4, said cushion-plate being formed of rubber or other elastic material and in the same is formed a series of apertures 5. In the cushion-plate 4 is also formed a series of frusto-conical hollow projections 6, formed on the under side of the cushion-plate 5, as shown.

Below the cushion-plate 4 and secured to the same and the insole-plate 1 is a lining piece or strip 7, below which is arranged the

heel of the shoe, which is constructed in the usual manner. Where the cushion-plate 4 is stitched to the heel-insole the same is beveled or tapered to an edge, the inner end of the insole-plate being also tapered or beveled, as shown, thus providing for a gradual rise from the sole portion of the shoe to the cushion portion in the heel of the same, so that when the cushion is arranged in the heel of the shoe no unevenness of the insole will be perceptible.

By the use of a heel-cushion constructed and arranged as herein shown and described the shoe may be worn with greater ease and comfort and a ventilation of the same will be provided for.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

A heel-cushion consisting of a rubber cushion-plate having formed on its under side a series of hollow, imperforate, frusto-conical projections, said rubber plate having a series of ventilating-openings intermediate the projections, a superposed insole layer provided with a series of perforations and extending backward beyond the cushion-plate, and a lining-strip, said cushion-plate and insole layer being tapered at their front ends and secured together by a line of stitching, said insole layer being secured above the rubber cushion-plate, and the lining-strip disposed below said cushion-plate, substantially as described.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

MATHEW BYRNE.  
WILLIAM G. YOUNG.

Witnesses:

JULIUS CALMANN,  
HENRY THOMAS.