No. 699,549. Patented May 6, 1902.

F. P. McINTYRE.

CUSHIONING DEVICE FOR BOOTS OR SHOES.

(Application filed July 30, 1900.)

(No Model.)

Fig. 1.

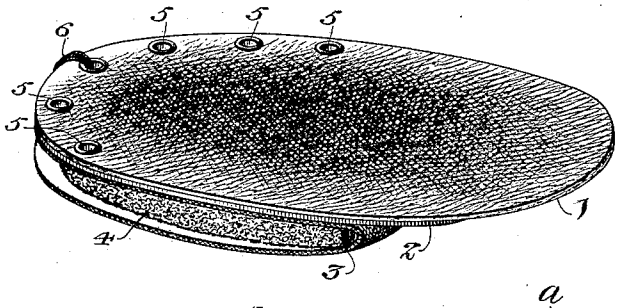


Fig. 3.

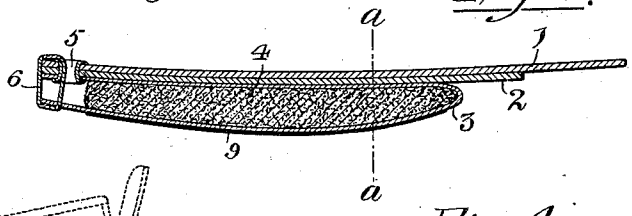


Fig. 2.

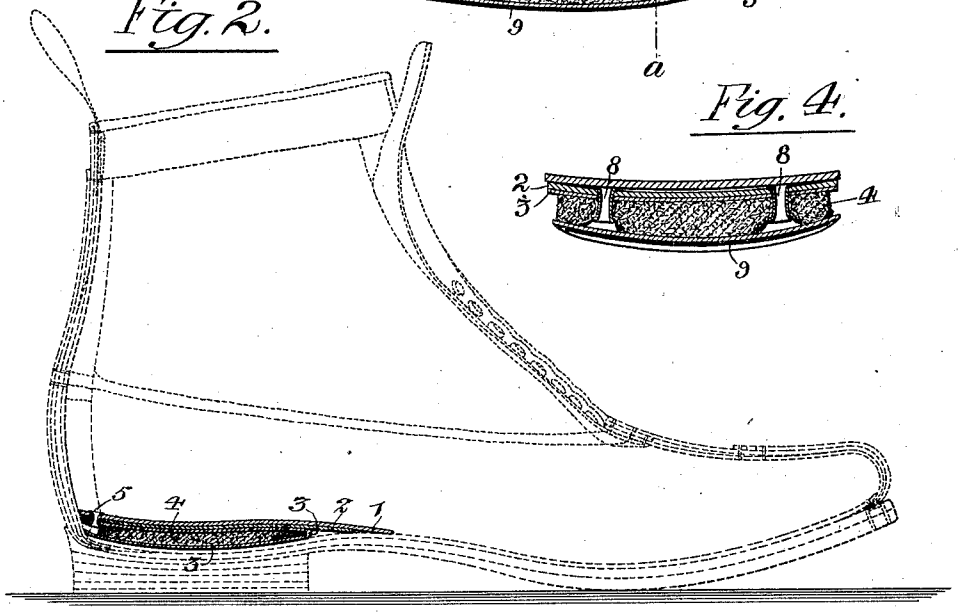


Fig. 4.

Witnesses
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Herman E. Metius.

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by his attorneys:-
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK P. McINTYRE, OF PHILADELPHIA, PENNSYLVANIA.

CUSHIONING DEVICE FOR BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 699,549, dated May 6, 1902.

Application filed July 30, 1900. Serial No. 25,313. (No model.)

To all whom it may concern:

Be it known that I, FRANK P. MCINTYRE, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Ventilating and Cushioning Devices for Boots or Shoes, of which the following is a specification.

The object of my invention is to provide a simple form of elastic heel-pad for boots and shoes which can be readily secured in its proper place in the shoe-heel and which will retain its form and position without liability to displacement by the movements of the foot. This object I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of an elastic heel-pad for boots and shoes constructed in accordance with my invention. Fig. 2 is a sectional view of a shoe, showing the elastic heel-pad therein. Fig. 3 is an enlarged longitudinal section of the pad, and Fig. 4 is a transverse section on the line *a a*, Fig. 3.

The pad consists of a strip 1 of thin leather or other soft flexible material, shaped to correspond with the shape of the heel portion of the shoe and resting upon a thin metallic plate 2, preferably of aluminium, this plate in turn resting upon the upper fold of a folded strip 3 of muslin or other textile material, containing between its folds a mass 4 of elastic material, such as "rubber sponge" or the like. The strip 1, the metal plate 2, and the upper fold of the textile strip 3 are secured together by means of rivets or eyelets 5 or other suitable fastenings, and coils or stitches 6 at the rear of the pad serve to prevent displacement of the lower fold of the strip 3.

The mass 4 of elastic material is confined to the plate 2 by means of rivets or eyelets 8, as shown in Fig. 4, and the said mass of elastic material terminates inside of the row of eyelets 5, so that as the pad is compressed and permitted to expand air can pass freely through these eyelets for the purpose of ventilation. The front edge of the mass 4 is beveled, so at to present no objectionable shoulder at the front of the pad.

The under fold of the strip 3 is coated with glue or cement 9, which can be moistened before the pad is inserted into its place in the heel of the shoe and will cause the said lower fold of the strip 3 to adhere firmly to the heel portion of the insole, and thus prevent displacement of the pad by the movements of the foot, the metal plate 2 imparting such rigidity to the pad, without interfering with its desired flexibility or elasticity, as to prevent the pad from being forced out of shape by the pressure or movement of the heel.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. An elastic heel-pad for boots and shoes, comprising a flexible upper strip, a metal plate backing the same, a folded strip, and a mass of elastic material contained between said folds, the top strip, the metal plate, and the upper fold of said inclosing strip being secured together, substantially as specified.

2. An elastic heel-pad for boots and shoes, said pad comprising an upper strip of flexible material, a metallic plate supporting the same, a folded strip, and a mass of elastic material contained between said folds, the top strip, the metal plate, and the upper fold of the inclosing strip being secured together and the lower fold of said strip being provided with a coating of cement whereby it may be secured to the insole of the boot or shoe, substantially as specified.

3. An elastic heel-pad for boots and shoes, comprising a flexible top strip, a metal plate supporting the same, a mass of elastic material secured to and supporting said plate, and a strip inclosing said elastic material, substantially as specified.

4. An elastic heel-pad for boots and shoes, comprising a top strip, a metal plate supporting the same, and a mass of elastic material supporting the plate, said mass of elastic material being of less dimensions than the plate, and the latter and the top strip having ventilating-openings in the projecting portion, substantially as specified.

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

FRANK P. MCINTYRE.

Witnesses:
JOHN W. TAGGART,
F. E. BECHTOLD.