V. B. GRECO,
HEEL FOR BOOTS AND SHOES,
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Inventor,
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HEEL FOR BOOTS AND SHOES.

To all whom it may concern:

Be it known that I, Vito B. Greco, a citizen of the United States of America, and a resident of Waterloo, Blackhawk county, Iowa, have invented certain new and useful Improvements in Heels for Boots and Shoes, of which the following is a specification.

My invention relates to improvements in heels for boots and shoes, and the object of my improvement is to construct such a heel with detachably secured lifts, of which the lowest, which takes the most wear, has special reinforcing means.

My invention herein also constitutes an improvement upon the heel patented by me in the United States of America, December 31, 1918. No. 1,289,445.

The above object has been accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which Figures 1 and 5 are vertical longitudinal sections of heels for women's and men's shoes, respectively, constructed according to my invention. Figs. 2, 3 and 4 are detail perspective views of different elements of the heel shown in Fig. 1, and in which Fig. 2 is the hollow lift, Fig. 3 is the reinforcing plate for the lowest lift, and Fig. 4 is the combination of said plate with the lowest lift. Fig. 6 is a plan view of a reinforcing plate, similar to that shown in Fig. 3, but formed and proportioned suitably for use in heels shown in Fig. 5.

Similar numerals of reference denote corresponding parts throughout the several views.

The heels shown in Figs. 1 and 5, are essentially alike, hence the description of one will serve for both. The main part or lift 1 is preferably hollow and constructed of a frangible substance, such as glass, which affords a permanently glossy surface capable of being molded ornamentally, but may be made of other material. The numeral 9 denotes a hollow frame or body, which may be press formed from steel or other strong rigid material, and which closely fits the hollow of the lift 1, having an outer flange 12, with an elastic washer 10 mounted between it and the abutting upper edge of said lift 1. The washer and flange are secured to the shoe sole 13 by means of brads 11 or other fastening means.

The numeral 5 denotes a tread member or lift, preferably formed of an elastic substance, such as rubber, or may be made of leather or other material, and having a central perforation 7. The numeral 2 denotes a reinforcing plate made of steel or other rigid material, having a central opening 4 aligned with the opening 7 of the lift 5, and having a number of other openings 3 arranged around said central opening 4, and which receive fitting and adherent portions of the lift 5 before vulcanization, if of rubber, the plate being embedded in the lift, the upper part of the latter diminished upwardly and supporting the frame 9. As shown in said Fig. 4, the parts 2 and 5 being virtually one body with the plate 2 forming a rigid embedded reinforcement and support for the elastic member 5. As the lower part of the frame 9 is orificed in line with the other said aligned orifices 4 and 7, and threaded interiorly, a screw 8 may be used to detachably fasten the elements of the heel together.

The use of said reinforcing plate 2 prevents damage to the lift 5 by ordinary contusions, and the lift may be nearly worn away before it becomes necessary to replace it. The plate 2 also is co-terminous with the abutting parts of the heel, and protects the adjacent parts of the lifts 1 and 5 from injury where they are most likely to be broken or marred. The walls of the openings 3 in said plate, may be somewhat inclined, if desired, to thereby better interlock with the received portions of the lift 5.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is:

1. The combination with a heel having a bottom cavity, of a reinforced elastic lift, the resilient body having a diminished part received within said cavity, a rigid reinforcing body embedded within said lift with an exposed margin positioned between and in contact with the lift and the heel, to rigidly support the lower edge of the heel upon the marginal part of the lift.

2. The combination with a hollow heel
having a rigid liner within its hollow above its bottom marginal edge, of a resilient lift having a diminished part fitting within the hollow of the heel and in contact with the bottom of said liner to resiliently support the liner, and a rigid reinforcing body embedded coterminously in said lift with its marginal part engaged between said lift and the bottom marginal edge of said heel to support the heel evenly upon the lift. Signed at Waterloo, Iowa, this 16th day of April, 1919.

VYTO B. GRECO.