May 1, 1928. 1,667,939

M. LEVY

RUBBER HEEL

Filed May 13, 1927

Fig. 1.

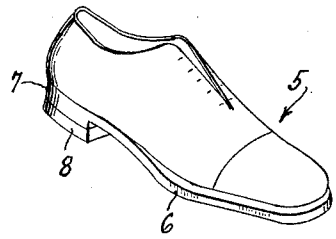


Fig. 3.

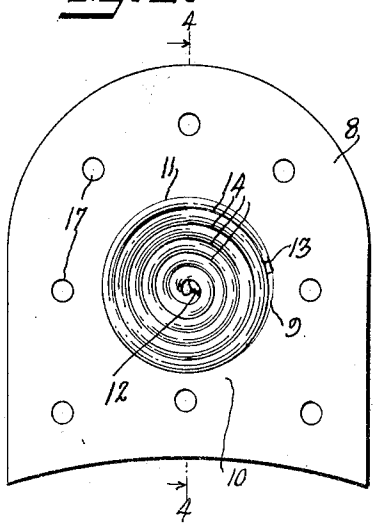


Fig. 2.

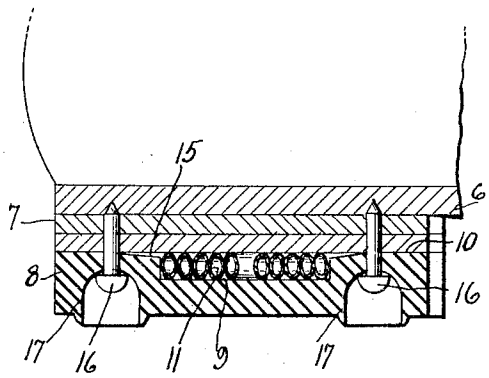
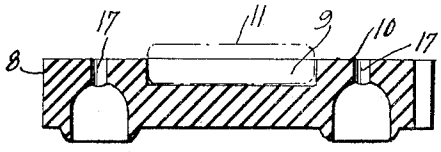


Fig. 4.



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UNITED STATES PATENT OFFICE.

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RUBBER HEEL.

Application filed May 13, 1927. Serial No. 191,015.

This invention relates to improvements in the construction of shoe heels generally and more particularly to rubber heels, and has for one of its objects the provision of a heel of this nature that will have a greater amount of resiliency than the ordinary rubber heel.

Another object of the invention is to provide a heel of this nature with a chamber having a resilient cushion therein, adapted when the heel is secured to the shoe to enhance its springiness.

A further object of the invention is to provide a heel of this nature with a chamber adapted to contain a spirally wound inflated tube forming a cushion to enhance the elasticity of the said heel.

Other objects and novel features of the invention will become more apparent as the specification proceeds.

In the drawings forming a part of this specification:

Figure 1 is a perspective view of a shoe with my improved heel attached thereto.

Fig. 2 is a fragmental longitudinal sectional view of the heel end of the shoe, showing one embodiment of my invention.

Fig. 3 is a top plan view of my improved heel and

Fig. 4 is a longitudinal sectional view of my improved heel taken on line 4—4, Fig. 3 with the cushion indicated in dot and dash lines.

Referring to the drawings in detail in which like numerals refer to the same parts throughout the various views, 5 indicates a shoe provided with the usual sole 6 and leather heel 7. Secured to the leather heel 7 is a heel 8 preferably made of rubber and provided approximately at the center thereof with a chamber 9 open at the top surface 10 of the said heel 8. An inflated cushion or pad 11 preferably made of soft rubber tubing is glued to or otherwise secured in the said chamber 9. The said pad 11 as already stated may be made of inflated rubber tubing, wound spirally and closed at its ends 12 and 13 either by gluing or in any other suitable manner. Glue is applied along the entire length on one side of the tube as at 14, so that when it is spirally wound the glue will prevent the spreading of the spiral and maintain same in required shape.

The pad 11 projects above the top surface 10 of the rubber heel and when the said heel 8 is nailed to the shoe a hollow or concave space 15 is formed between the leather heel portion 7 and the said rubber heel portion 8 which permits of a great amount of resiliency or spring action between the heel sections 7 and 8. The rubber heel is secured to the shoe by nails 16 passing through the usual holes or openings 17 into the heel 7.

It will be readily seen that with my improved heel a great amount of resiliency is obtained regardless of the quality of rubber used in the manufacture of the heel, as there is always present a highly resilient cushion between the leather and rubber heels 7 and 8 respectively.

While I have shown a single cushion centrally located on the rubber heel, I do not limit myself to this exact construction as a plurality of such cushions may be provided and spaced as may be desired. Nor do I limit myself to a pad or cushion made of rubber tubing, as many variations in the construction of the pad and general arrangement of the various portions of my invention may be had without departing from the scope of the appended claim.

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

A rubber heel provided with a chamber therein, open at the top surface thereof and an inflated spirally wound tubular cushion secured in the said chamber projecting above the top surface of the heel.

MORRIS LEVY.