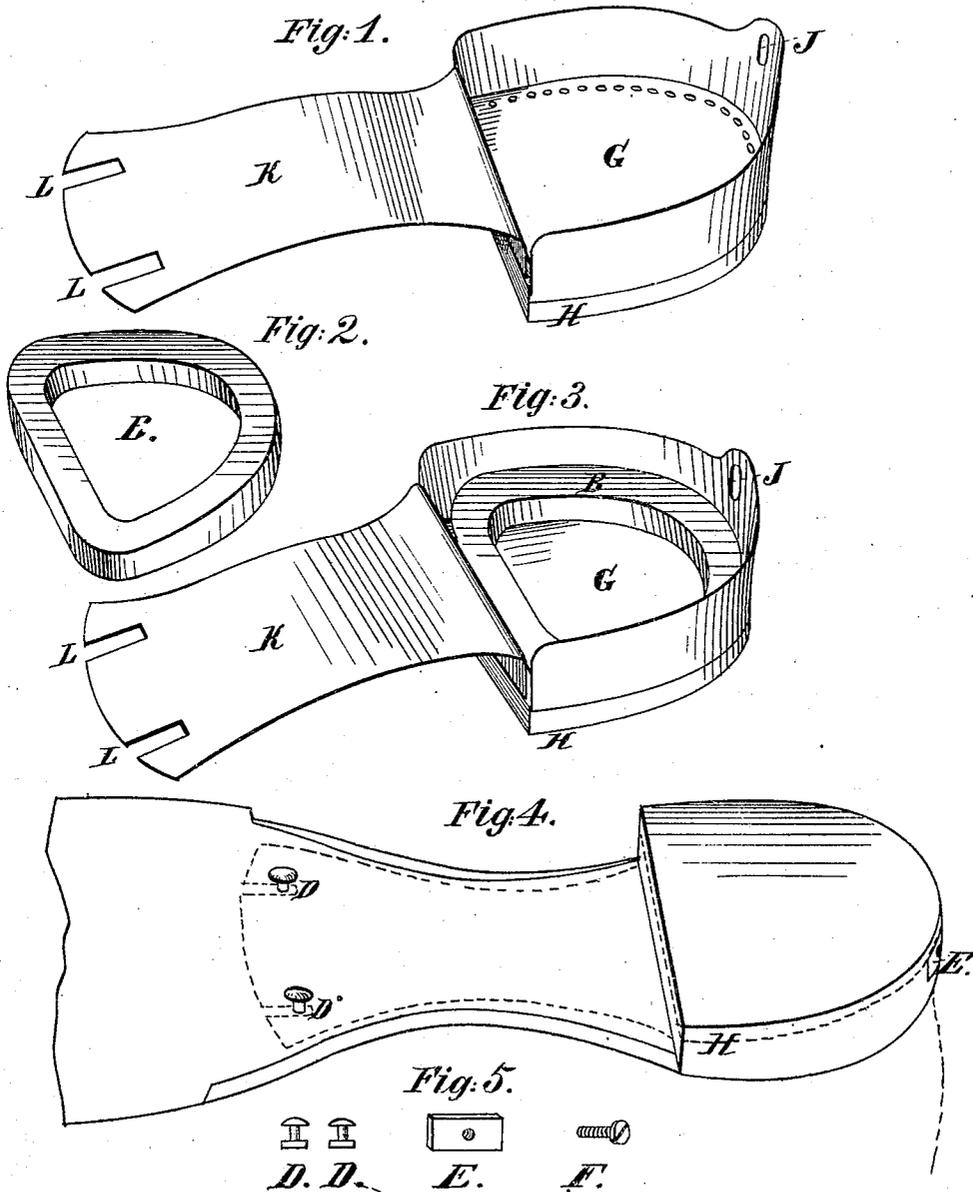


T. P. MONZANI.

Elastic Boot and Shoe Heel.

No: 134,088.

Patented Dec. 17, 1872.



Witnesses.
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UNITED STATES PATENT OFFICE.

THEOBALD P. MONZANI, OF COLUMBUSVILLE, NEW YORK.

IMPROVEMENT IN ELASTIC BOOT AND SHOE HEELS.

Specification forming part of Letters Patent No. **134,088**, dated December 17, 1872; antedated December 14, 1872.

To all whom it may concern:

Be it known that I, THEOBALD P. MONZANI, of Columbusville, in the county of Queens, Long Island, and State of New York, have invented certain new and useful Improvements in Spring-Heels for Boots and Shoes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing which makes part of this specification, and in which—

Figure 1 represents a metallic case, of sheet-brass or any other suitable material, having a shank and a cavity deep enough to contain an elastic ring or rings, which give the desired spring to the heel; Fig. 2 represents one of the elastic packings used; Fig. 3 represents the metallic case with the packing in proper position for attachment to the boot or shoe; Fig. 4 represents a view of the case attached to the shoe; and Fig. 5 shows the devices constituting the means of attachment of the case to the shoe.

My invention relates to spring-heels for boots and shoes; and it consists in so constructing a metallic case as that, while it conforms to the shape of the shank and heel of the boot or shoe, it contains within it a cavity to receive an elastic packing between said case and the rear part of the sole of the shoe, the heel being attached to and built upon said case, while, by means of compensating slots in the rear of said case and in the shank thereof, the desired spring is given to the heel, as will be hereinafter described.

In the accompanying drawing, G represents the heel portion of the metallic case, to which the leather heel H of the boot is attached, and which is provided with a shank, K, having compensating slots L L at its forward end.

The said case is also provided at its rear portion with an elongated slot, J, and these last mentioned devices constitute, with proper rivets D and a screw, F, the means of attachment of the case to the sole of the boot. Within the cavity G of the heel portion of the metallic case, and between it and the sole of the boot, is interposed a packing, B, of rubber or other suitable material, which gives the desired spring to the heel. At the rear of the heel of the shoe is inserted a piece of metal, E, provided with a female screw-thread to receive the screw F, as shown by the drawing.

The heel, as described, is prepared for attachment to the boot or shoe by placing the elastic ring in the cavity G and pressing the slots in the shank under the projecting rivet-heads D D; the heel is brought into its proper place, and the screw F screwed home in the metal plate E renders the attachment secure.

It will be seen that great elasticity is imparted to the heel in the act of walking, while the foot better adapts itself to any inequality of surface, thus relieving it of much fatigue; and this required elasticity is compensated for by the elongated slots moving on their attachments, while at the same time the case is perfectly secure in its place.

Having described my invention, I claim—

In combination with the sole of a boot or shoe having at its rear a metallic plate, E, as described, a metallic case, G, having a cavity to receive an elastic packing, B, to give elasticity to the heel, and a shank, K, said case and shank being provided with compensating slots L L J, for the purpose set forth.

THEOBALD P. MONZANI.

Witnesses:

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