

No. 795,502.

PATENTED JULY 25, 1905.

E. GAREAU.
SPRING HEEL FOR SHOES.
APPLICATION FILED SEPT. 6, 1904.

Fig. 1.

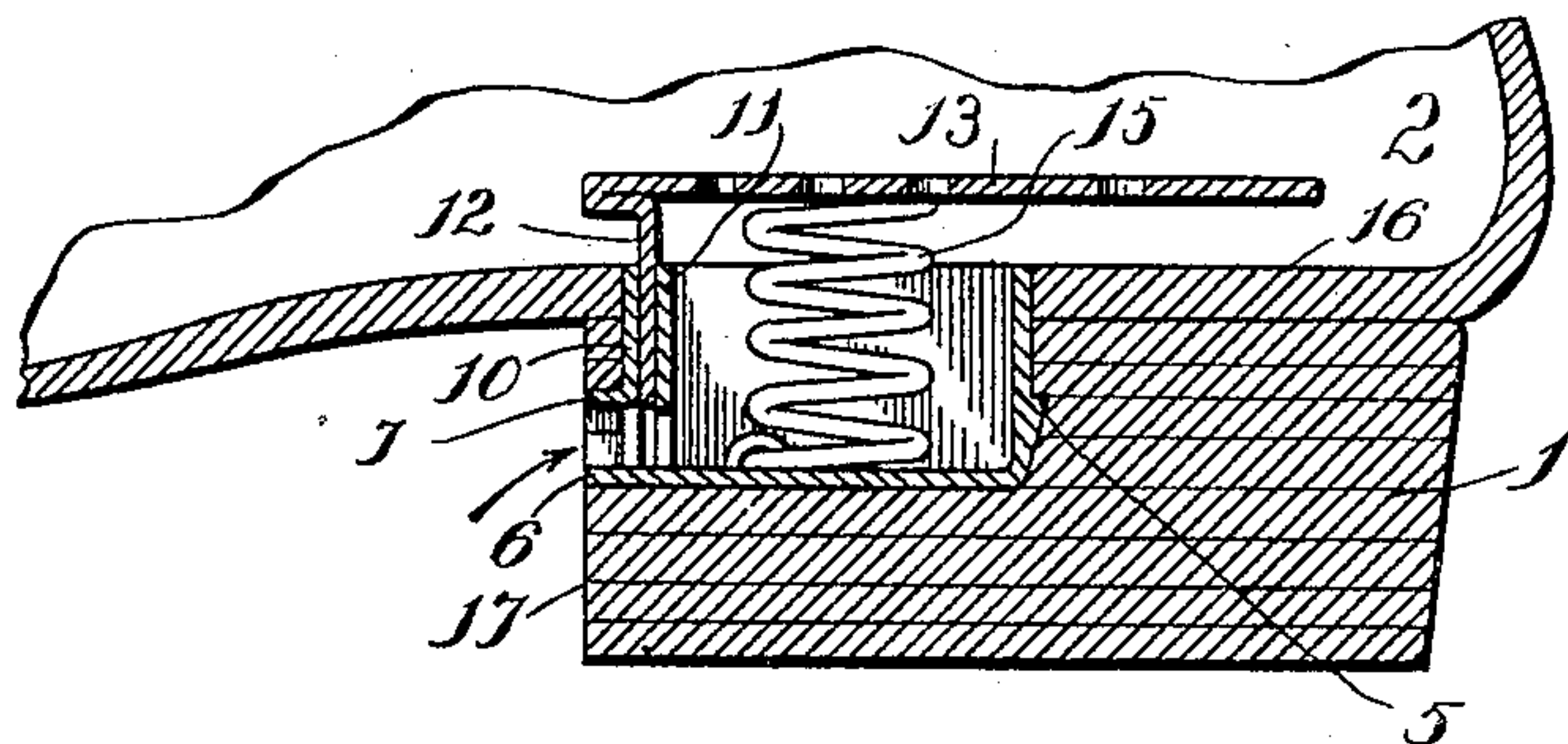


Fig. 2.

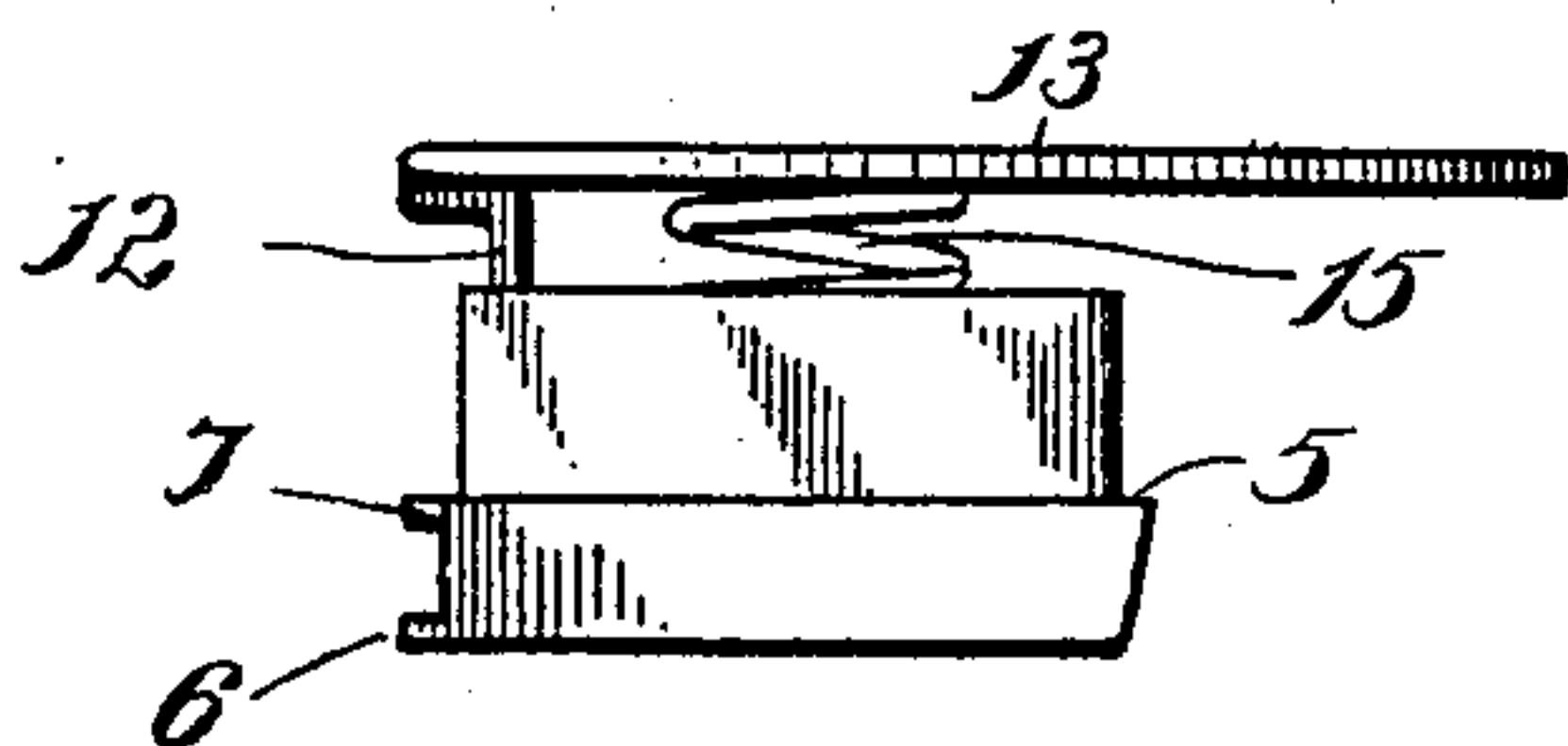
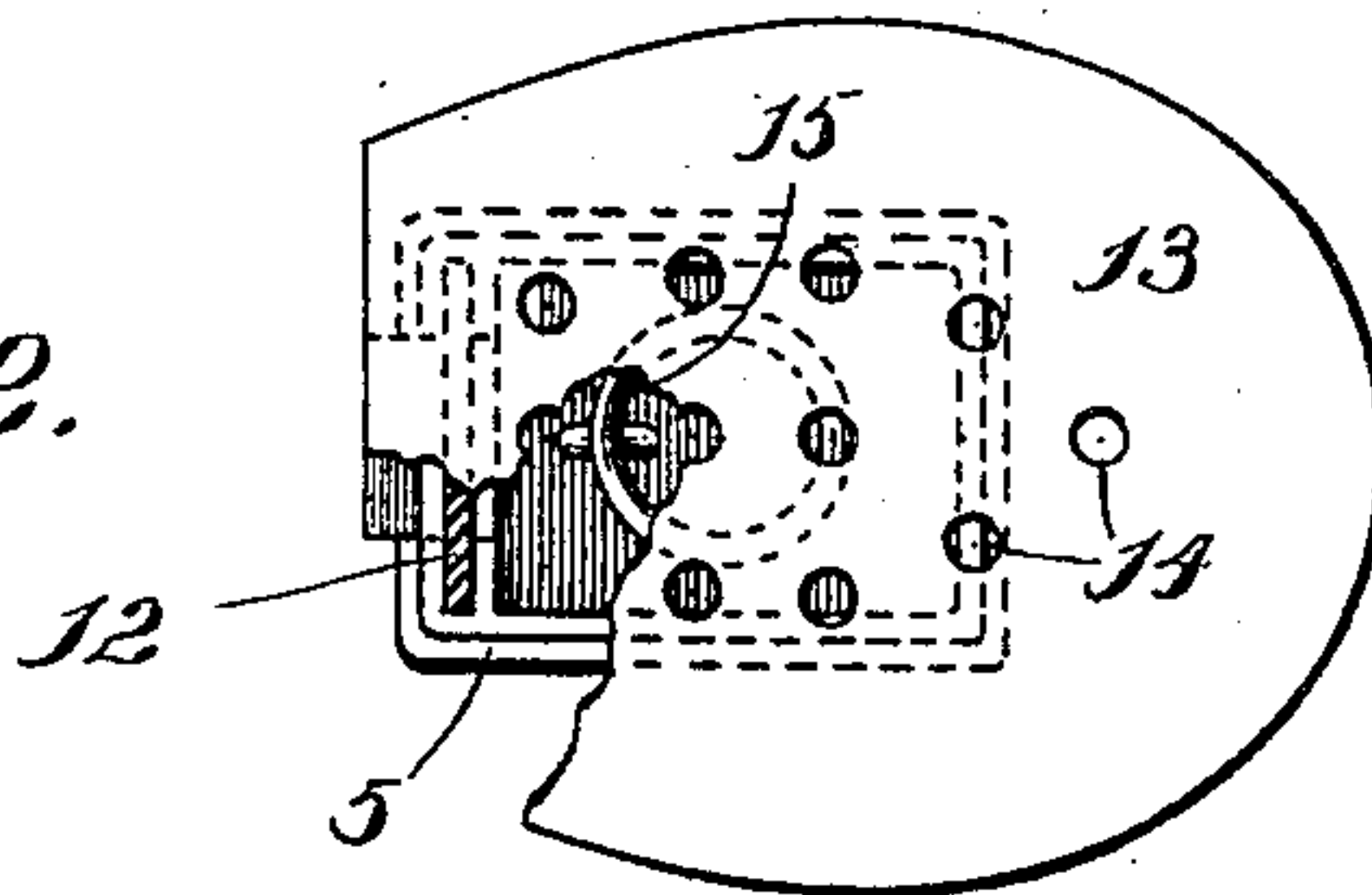


Fig. 3.

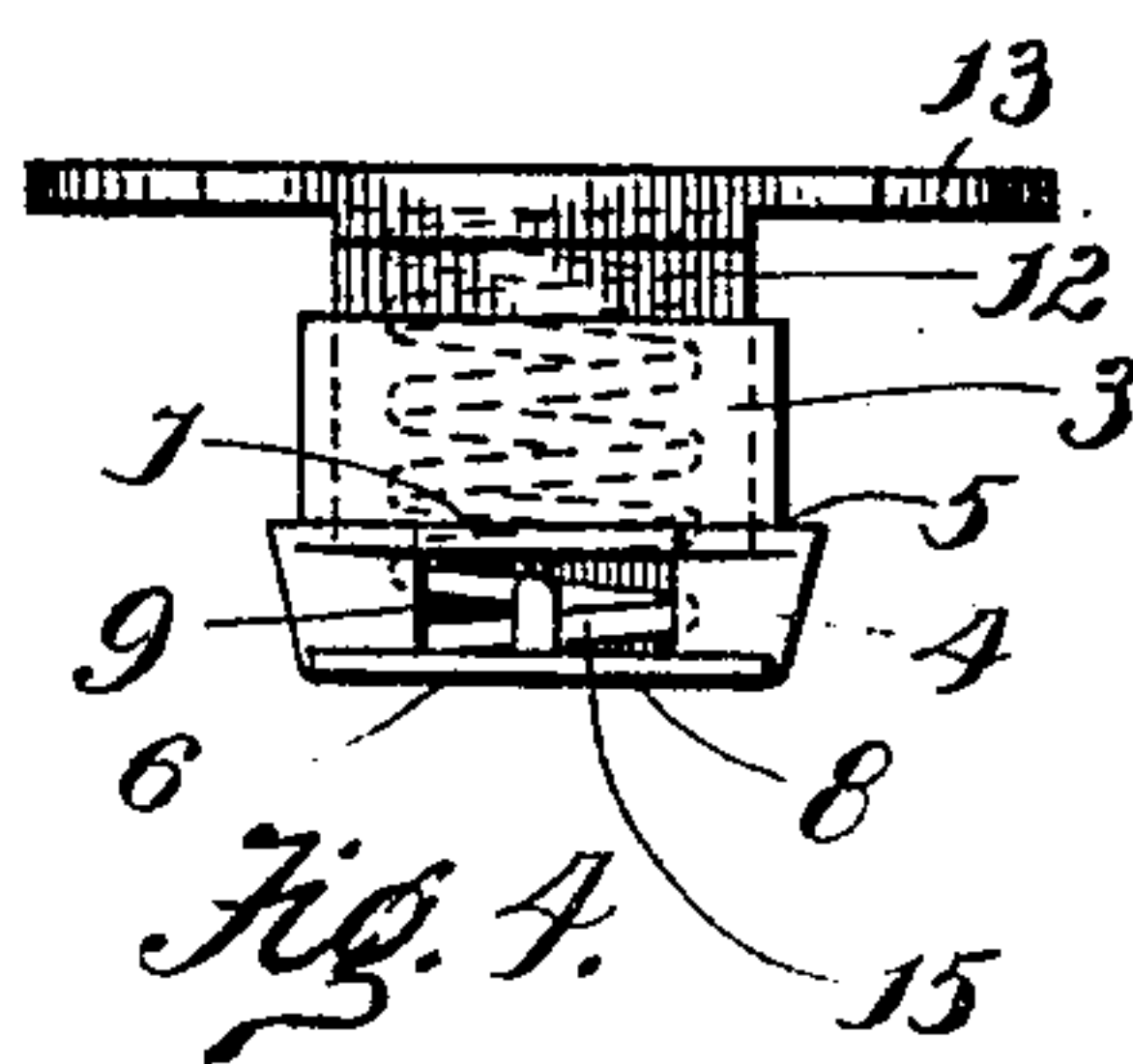


Fig. 4.

Witnesses:

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UNITED STATES PATENT OFFICE.

EUGENE GAREAU, OF MONTREAL, CANADA.

SPRING-HEEL FOR SHOES.

No. 795,502.

Specification of Letters Patent.

Patented July 25, 1905.

Application filed September 6, 1904. Serial No. 223,318.

To all whom it may concern:

Be it known that I, EUGENE GAREAU, residing at the city of Montreal, district of Montreal, Province of Quebec, Canada, have invented certain new and useful Improvements in Spring-Heels for Shoes; and I do hereby declare that the following is 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 new and useful improvements in spring-heels for shoes; and it consists in certain features of novelty in the construction and operation thereof, all as hereinafter more fully described, and specifically pointed out in the claims.

The object of the invention is to provide a resilient supporting means adapted to be placed within the heel portion of the shoe and project within the shoe, whereby a yielding support is provided at the heel of the wearer and ventilation is provided within the shoe.

In the annexed drawings, in which similar numerals of reference denote corresponding parts in all the views, Figure 1 is a fragmentary longitudinal sectional view of a shoe equipped with my invention. Fig. 2 is a plan view of my improved device, shown partly broken away for convenience of illustration. Fig. 3 is a side elevational view of my invention detached from the shoe, and Fig. 4 is a front elevational view of the same.

Referring to the parts, 1 indicates the heel of the shoe, and 2 the interior thereof. Within the heel 1 is placed a metallic socket or receptacle 3, which is provided with a beveled and flanged lower terminal portion 4, whereby the shoulder 5 is provided. This socket may be formed of sheet metal or any suitable material and is formed with the forwardly-projecting flanges 6 and 7, the flange 6 extending in approximate alinement with the base 8 and the flange 7 extending in approximate alinement with the shoulder 5. Between the flanges 6 and 7 there is provided an opening 9 through the forward wall of the socket member and in convenient juxtaposition to said wall, either within the socket or exteriorly thereof, and parallel with the forward wall 10 is a guide-plate 11, which is also provided with an opening corresponding with the said opening 9, so that air may pass to the exterior of the socket member through the front portion of the heel, as shown by the arrow in Fig. 1. Guided between the wall 10 and plate 11 is a depending leg 12, with which is connected a cap-plate

13, as shown in Figs. 1 and 3, or said cap-plate may be secured in any convenient manner to said leg 12, if desired. Said cap-plate is provided with perforations 14, as shown, and said cap-plate is preferably of less area than the transverse area of the inner heel portion of the shoe. Supported within this socket 3 in any convenient manner is a coil-spring 15, which serves as a yielding support for said cap-plate.

In practice the heel of the shoe is formed with a cavity adapted to hold the socket member 3, and the lifts of the heel are fitted to the shoulder 5 and flanges 6 and 7 so as to hold the socket within the heel, while the cap-plate 13 projects upwardly into the shoe, as shown by Fig. 1, whereby a space is provided between the sole portion 16 and said cap-plate for the passage of air.

When the device is secured in position within the shoe, the weight of the wearer will be intermittently thrown with greater pressure upon the cap-plate in walking, and a greater or less supply of air will be drawn into the shoe through the opening 9 of the forward wall of the socket, which opening extends to the forward edge 17 of the shoe-heel.

While I have shown in the accompanying drawings the preferred form of my invention, it will be understood that I do not limit myself to the precise form shown, for many of the details may be changed in form or position without affecting the operativeness or utility of my invention, and I therefore reserve the right to make all such modifications as are included within the scope of the following claims or of mechanical equivalents to the structure set forth.

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

1. In a device of the character described, a plurality of walls forming a socket, having an opening in one of its vertical walls, a guide-plate disposed adjacent to one of said walls, a cap-plate disposed over said socket, and a depending leg connected to said cap-plate and disposed between said guide-plate and one of said walls.

2. In a device of the character described, a plurality of walls forming a socket, provided with an opening in one of its vertical walls, a guide-plate secured to said walls, a cap-plate disposed over said socket, and a leg disposed on said cap-plate and extending between said guide-plate and one of said walls, and a spring

disposed in said socket beneath said cap-plate and bearing against said cap-plate.

3. In a device of the character described, a plurality of walls forming a socket, provided with an opening in one of said walls, a flange projecting from said socket above said opening, a guide connected with said socket, a cap-plate disposed above said socket and provided with a depending member coacting with said guide, and a spring beneath said cap-plate adapted to support the same.

4. In a device of the character described, a plurality of walls forming a socket, provided with an opening in one of said walls, flanges projecting forwardly of said socket, a guide-plate connected to said socket approximately parallel with its forward wall, a cap-plate disposed over said socket and provided with a depending leg extending between said guide-

plate and said forward wall, and a spring adapted to support said cap-plate.

5. In a device of the character described, a plurality of walls comprising a socket, provided with an opening in one of its walls, a plurality of flanges projecting from said socket respectively above and below said opening, a guide-plate adjacent said perforated wall, a cap-plate disposed over said socket and provided with a depending portion extending between said guide-plate and said perforated wall and a coil-spring adapted to yieldingly support said cap-plate.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

EUGENE GAREAU.

Witnesses:

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