## P. S. DEVLAN. METALLIC SPRING HEEL.

## Patented July 24, 1849.

No. 6,610.

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## UNITED STATES PATENT OFFICE.

P. S. DEVLAN, OF READING, PENNSYLVANIA, ASSIGNOR TO G. S. LANGDON.

METALLIC BOOT-HEEL.

Specification of Letters Patent No. 6,610, dated July 24, 1849.

Be it known that I, PATRICK S. DEVLAN, I shall call the socket, is secured by means 50 of Reading, in the county of Berks and State of screws or rivets ( $\alpha$  Fig. 4) to the heel of Pennsylvania, have invented a new and of the shoe, and the under part (B) which 5 useful Metallic Spring-Heel for Boots and I shall call the tread is secured to the upper Shoes, of which the following is a full and part (A) by a pivot e whose head is held exact description, reference being had to the in a depression (b) in which it is free to 55 rise and fall as the tread is elevated into, or annexed drawings of the same, making part forced out of the socket by the variations of this specification, in which— 10 Figure 1 is a view of the heel attached to in the reciprocal action of the spring and a shoe, placed bottom upward; Fig. 2 is a insisting pressure. similar view, but with the tread or moving The upper edge (c Fig. 4) of the socket 60 part of the heel removed to expose the pivot (A) spreads outward and is slightly inby which it is held in place, the helical clined upward for the purpose of affording 15 spring upon which the weight of the body a broader support to the heel, and holding rests, and the interior of the upper or fixed the socket more securely to the leather. The bottom of the tread is roughened to prevent 65 portion of the heel; which, as well as the lower part, is hollow; Fig. 3 is a view of the slipping. tread or lower part of the heel inverted; Surrounding the pivot which connects the tread and socket, is placed an open helical 20 Fig. 4 is a vertical section through the line  $x \ x$  of Fig. 1; Fig. 5 is a perspective view spring (D) of such strength that it will not of a modified form of the heel, and Fig. 6 be entirely collapsed by the weight of the 70 body. Metallic springs for this purpose is a vertical section through the line 22 of may be made and arranged in various ways, the same. and under certain circumstances gum elastic The same letters indicate the same parts 25may be advantageously substituted for the in all the figures. My invention and improvement consists metal. 75in making a hollow metallic heel for shoes I do not claim filling a cased heel for shoes and boots in two parts, one placed within or boots with indian rubber which projects 30 the other, with a spring between them to beyond the case to form an elastic tread nor support the weight of the body, and prevent the employment of either india rubber or other springs to give elasticity to the heel, 80 the unpleasant shocks produced by the concussion of the ordinary boot heel upon a when a metal tread is not used. But hard surface when the wearer is walking What I do claim as my invention and desire to secure by Letters Patent is— 35 fast. Making a metallic tread for the heels of The lower part turns on a pivot in every direction so that it always rests flat upon shoes and boots, separate from, but secured 85 the surface on which the wearer may be within the casing of the heel, in such a manner that it shall be free to change its posiwalking and thus wears level, instead of tion to accommodate itself to the inequali-40 being worn unevenly, as is the case with the common heel. ties of the surface of the ground, whereby it wears more evenly, and is less fatiguing to 90 In its exterior configuration the heel may | the foot than a rigid heel in the manner set be made of the usual fashionable shape, or otherwise. It is made in two parts, which forth. 45 are hollow and of metal cast in the usual PATRICK S. DEVLAN. way, both parts are cup-shaped and when Witnesses: properly fixed in their respective places as H. A. GUNNAN, in Fig. 1, the mouth of one is inserted into JOHN M. GOWAN.

| that of the other. The upper part A which To all whom it may concern: