

G. W. WELLS.
SHANK-SUPPORTS FOR BOOTS AND SHOES.
No. 189.161.
Patented April 3, 1877.

Fig. 1.

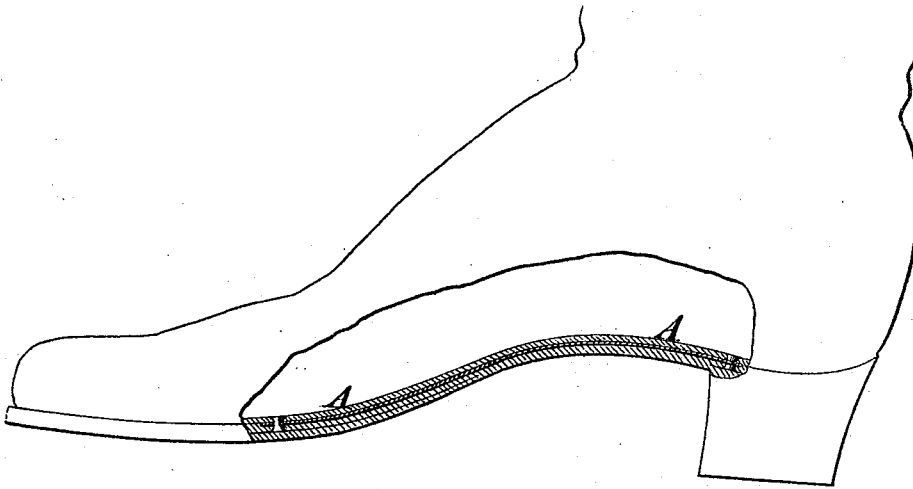
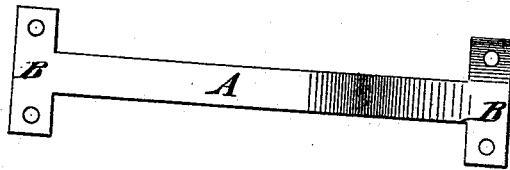


Fig. 2.



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GEORGE W. WELLS, OF BLACK HAWK, COLORADO.

IMPROVEMENT IN SHANK-SUPPORTS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. **189,161**, dated April 3, 1877; application filed February 17, 1877.

To all whom it may concern:

Be it known that I, GEORGE WASHINGTON WELLS, of Black Hawk, in the county of Gilpin and State of Colorado, have invented a new and useful Improvement in Boot and Shoe Spring, of which the following is a specification:

Figure 1 is a vertical longitudinal section of one of my improved springs, illustrating its use. Fig. 2 is a plan view of the spring.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved spring for the soles of boots and shoes, which shall be so constructed as to prevent the soles from twisting or getting otherwise out of shape, while giving great elasticity to the sole in walking.

The invention consists in boot and shoe springs made with cross-heads upon their ends, and with holes in the ends of said cross-heads to receive the rivets by which said springs are secured to the insoles of boots and shoes, as hereinafter fully described.

A is the spring, which is made of steel, and of such a length as to extend from the heel to, or nearly to, the ball of the foot, and which

is bent to give the desired arch to the sole. The spring A is made with a cross-head, B, at each end, as shown in Fig. 2. Through the ends of the cross-heads B are formed holes, to receive rivets for securing the said spring to the insole of the boot or shoe. The rivets should have wide flat heads, to give them a firm hold upon the insole, and prevent them from hurting the feet of the wearer.

This construction gives the springs great strength to recover themselves from a lateral twist or strain, and at the same time gives to the sole great elasticity in walking.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

Boot and shoe springs A, made with cross-heads B upon their ends, and with holes in the ends of said cross-heads, to receive the rivets by which they are secured to the insoles of boots and shoes, substantially as herein shown and described.

GEORGE WASHINGTON WELLS.

Witnesses:

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