

Alfred J. Perrine's
Improvement in
No. 119,473. Patented Oct. 3, 1871.
Heels for Boots & Shoes.

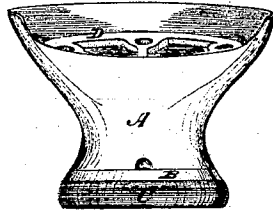


Fig. 1

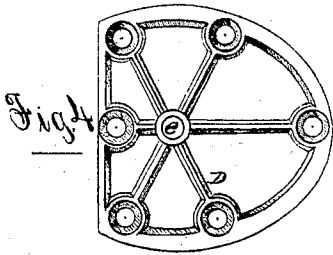


Fig. 4

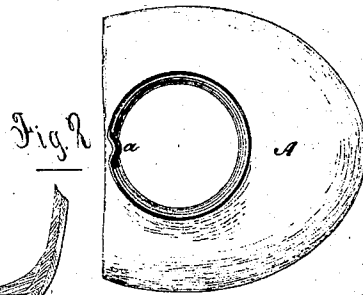


Fig. 2



Fig. 3

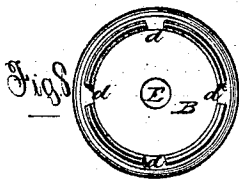


Fig. 8

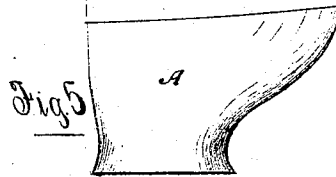


Fig. 5



Fig. 6

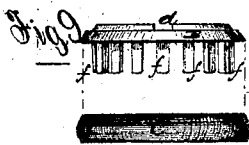


Fig. 9

Fig. 10

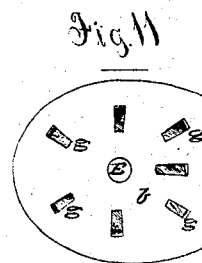


Fig. 11



Fig. 12

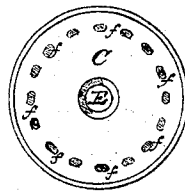


Fig. 7

Witnesses: { Edward L. Brown
Robert H. Manness

{ A. J. Perrine } Inventor.
By C. R. Ormiston atty

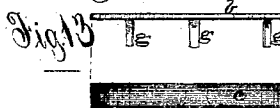


Fig. 13

Fig. 14

UNITED STATES PATENT OFFICE.

ALFRED T. PERRINE, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN HEELS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. 119,473, dated October 3, 1871.

To all whom it may concern:

Be it known that I, ALFRED T. PERRINE, formerly of Louisville, Kentucky, but now of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Heels for Boots and Shoes, of which the following is a specification:

My invention consists in a novel manner of constructing a tip and combining it with a metallic shell for the heels of boots and shoes; and it has for its object the production of a heel-tip which can be used with a metal shell, and which shall be capable of great service as well as of being produced at a low cost.

Figure 1 is a view of the heel complete as secured to the base-plate D. Figs. 2 and 5 are views of the metallic heel-shell. Fig. 3 is a sectional view of a portion of the sole of a shoe, showing the manner in which the base-plate is secured. Fig. 4 is a view of the base-plate. Figs. 6, 7, 11, and 12 are views of the heel-tips. Figs. 8, 9, and 13 are views of the metal plates forming the upper part of the tips, and Figs. 10 and 14 are views of the leather forming the lower portion of the tip.

A represents the shell, which forms the heel proper. Its upper edge covers the base-plate D and the sole of the shoe, and its lower rim fits over the flanges *h* on the plate B. B *b* represents the metallic plate which forms the upper part of the heel-tip, shown complete in Figs. 6, 7, 11, and 12 of the drawing, and to which the leather C *c* is secured. It is made either of a circular or horseshoe form to conform to the shape of the heel-shell, Figs. 8 and 11, and is provided with pins *f g*, projecting from its lower surface, to hold the leather C *c* securely in place, the metal plate and the leather being firmly united to form the tip by pressing the two together by any suitable mechanism so as to force the pins *f* or *g* through the leather. C *c* represents the leather which forms the base of the tip. D represents the base-plate, secured upon the shoe-

sole, and provided with a boss, *e*, screw-threaded to receive the end of the screw which holds the shell and tip in place, the tip being provided with a countersunk hole, E, to receive the head of the screw.

The shell A is represented with an indentation, *a*, in its lower rim, which projects from the inner surface so as to fit into the spaces *d* in the plate B and prevent the tip from turning accidentally and working loose upon the screw. The plate B is provided with several spaces between the flanges *h* to receive the indentation *a*, so that by loosening the screw which holds the tip in place the tip may be turned around as often as it becomes worn more upon one side than the other, and the indentation placed in another space.

The pins projecting from the plate B *b* may be either cast with the plate, as *f*, or formed by cutting them from the plate itself, when formed of sheet metal, and bending them down at right angles, as *g*.

I am aware of the patents granted George W. Keene, March 6, 1860, and Frederick Closs, September 18, 1866, for shoe-heels, and I disclaim said inventions.

I claim as my invention—

1. The heel-tip, made of a spiked or toothed plate, B, upon which a lift of leather or similar material, C, is pressed and held by friction, in combination with a metallic shell, A, secured to the shoe by a bolt or screw, substantially as described and specified.

2. In combination with the metallic shell A and plate B, secured to the shoe by a bolt or screw, the indentation *a* and corresponding recess in the plate for adjusting the position of the tip upon the shell, substantially as described and specified.

ALFRED T. PERRINE.

Witnesses:

WM. C. WILLIAMSON,
GEO. S. DERBY.