(No Model.)

F. P. SIMONDS.

BOOT OR SHOE.

No. 306,650. Patented Oct. 14, 1884.

Fig. 1.

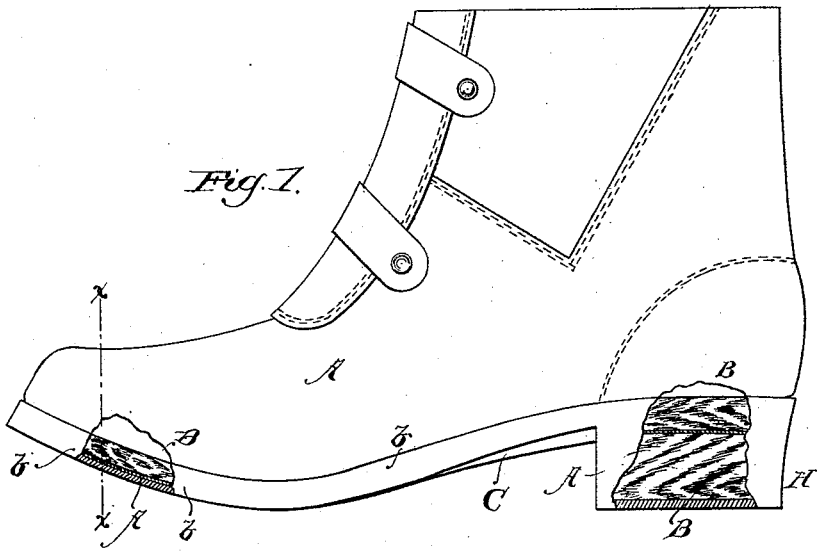


Fig. 2.

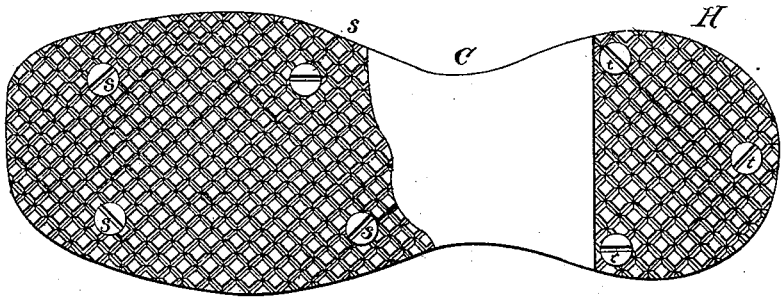
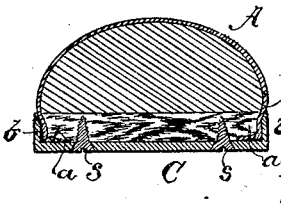


Fig. 3.



Witnesses.
Henry Marsh.
B. J. Noyes.

Inventor.
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UNITED STATES PATENT OFFICE.

FRANK. P. SIMONDS, OF NATICK, ASSIGNOR TO HENRY F. WOODS, TRUSTEE, OF SOMERVILLE, MASSACHUSETTS.

BOOT OR SHOE.

SPECIFICATION forming part of Letters Patent No. 306,650, dated October 14, 1884.

Application filed March 22, 1884. (No model.)

To all whom it may concern:

Be it known that I, FRANK. P. SIMONDS, of Natick, county of Middlesex, State of Massachusetts, have invented an Improvement in Boots or Shoes, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object improvements in that class of boots or shoes having a metal sole, and adapted more especially for use of miners, foundrymen, &c.

In my improved shoe the upper is drawn over a heavy inner sole, preferably of wood, and the metal outer sole is then placed upon it, the rim or flange of the outer sole extending upward at the edge of the inner sole and covering the upper resting against it, thus guarding the upper opposite the edge of the inner sole.

Figure 1, in side elevation, represents a shoe embodying my invention, a portion of the same being broken out to show the wooden inner sole and the heel-block in the heel; Fig. 2, an under side view of Fig. 1, and Fig. 3 a section of Fig. 1 on the dotted line *x x*.

The upper A of the boot or shoe is and may be of usual shape and material. The inner sole, B, is preferably of wood, as is the heel-filling block B'. The sole C, herein shown, is composed of a sole-shaped piece of metal provided about its edge with an upright flange, *b*, substantially as high as the inner sole is thick, and preferably the heel H is made integral with the sole and as a hollow metal shell. The edge of the upper is drawn over the wooden or inner sole on a last, and is then fastened thereto as practiced in ordinary lasting, preferably by a tack, as at *a*. The outer sole, C, is then applied to the upper and inner sole, united, as described, so that the flange *b* extends across the edge of the inner sole and that part of the upper which is drawn over the edge of the inner sole, the flange being of sufficient height to protect the upper above the under side of the inner sole, so that it cannot be as readily cut or burned as heretofore. The flanged metallic outer sole, C, is attached to the inner sole by means of screws *s*, the heel part being attached by screws at *t*.

I am aware that the bottom of a leather outer sole, attached to an upper in usual manner, has been covered by metal, and that the said metal has had at its edges prongs to be lapped about the edge of the outer sole to thus secure the metal sole to the outer sole.

A boot or shoe having a wooden inner sole completed by means of a metal sole flanged at its edge to embrace the upper and inner sole may be cheaply constructed, for the metallic outer sole may be readily attached to the upper and inner sole by screws, screws being preferable to headed nails, for the reason that they permit the sole to be readily detached from the upper and the inner sole whenever desired. The under side of the sole and heel is scored or roughened, as shown clearly in Fig. 2, to enable the said parts to adhere more closely to the wood, or floor, or ice on which the boot or shoe is placed.

The shoe shown is shaped to resemble a so-called "plow-shoe;" but the shape of the upper may be variously modified and other usual shape adopted without departing from my invention.

I claim—

1. A boot or shoe composed of an upper, an inner sole about which the upper is lasted, and a flanged metallic outer sole applied thereto, the inner sole and the upper covering its edge being entered into the space formed in the outer sole, the bottom of the inner sole being below the top of the flanged part of the outer sole, substantially as described.

2. The upper, the wooden inner sole, and the metallic outer sole flanged at *b*, the said flange being extended upward above the under side of the said wooden inner sole, substantially as described.

3. The upper, the wooden inner sole, and the flanged metallic outer sole applied to the inner sole and upper, as described and shown, and screws to unite the outer and inner soles.

4. The upper, and inner sole to which it is attached, combined with the metallic upwardly-flanged outer sole and connected metallic heel-shell H, the flange of the sole extending upward above the under side of the inner sole, the parts being attached together, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK. P. SIMONDS.

Witnesses:
G. W. GREGORY,
B. J. NOYES.