(No Model.)

C. A. ERDMAN.

BOOT OR SHOE.

No. 353,740. Patented Dec. 7, 1886.

FIG. 1

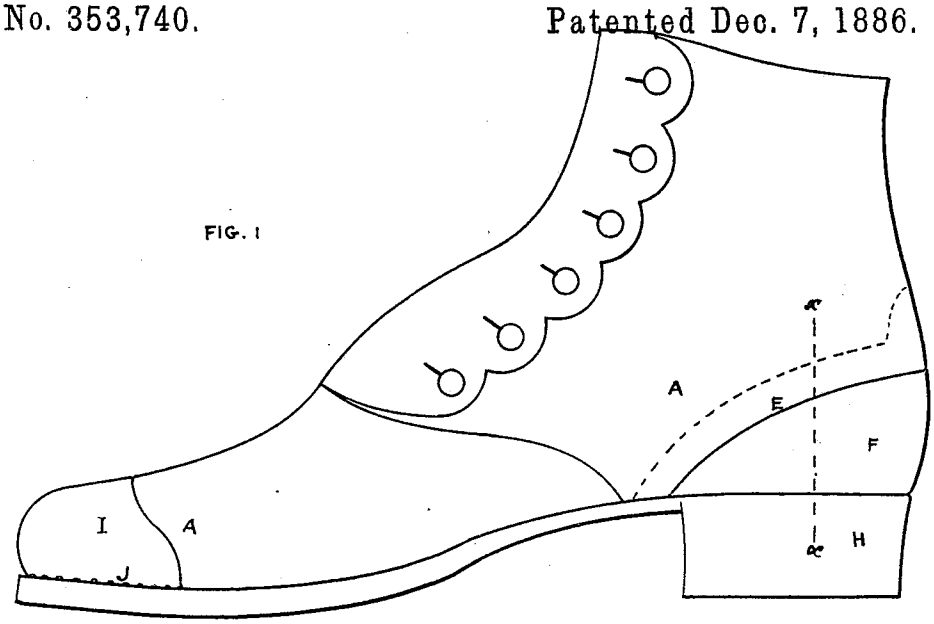
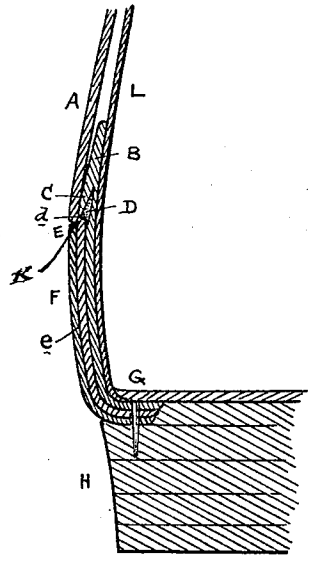


FIG. 2



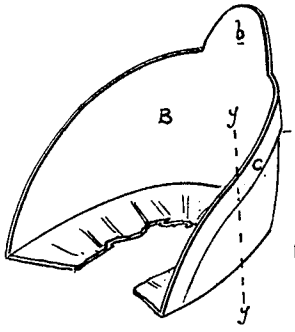


FIG. 3

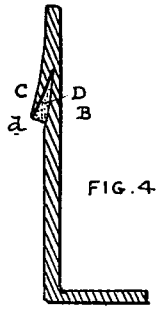


FIG. 4

Attest

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UNITED STATES PATENT OFFICE.

CHARLES A. ERDMAN, OF PHILADELPHIA, PENNSYLVANIA.

BOOT OR SHOE.

SPECIFICATION forming part of Letters Patent No. 353,740, dated December 7, 1886.

Application filed June 26, 1886. Serial No. 206,346. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. ERDMAN, of the city and county of Philadelphia, and State of Pennsylvania, have invented an Improvement in the Manufacture of Boots and Shoes, of which the following is a specification.

My invention has reference to boots and shoes; and it consists of certain improvements in their manufacture, which are fully set forth in the following specification, and shown in the accompanying drawings, which form part thereof.

Boots and shoes of the ordinary manufacture have been found inclined to wear out most rapidly in the heels and toes, and it has been sought to overcome this fault and make a strong and lasting shoe by the use of protecting-tips.

It is the object of my invention to make a shoe possessing this desired quality of durability without in the least degree spoiling the neat appearance of the shoe; and, furthermore, it will be found equally as serviceable to the old as to the young, since my improved shoe does not materially differ in appearance from those usually worn. I accomplish this by the use of enforced leather tips on the toes and heels, which fit closely to the upper, presenting a perfectly even surface to the toe and heel, without the central seam down the back of the heel, which has been found to be the usual cause of breakage in this part. Furthermore, these tips can be easily replaced when they are worn out, and they will be found to give a better fit to the shoe by keeping it firm and straight.

In the drawings, Figure 1 is a side elevation of a shoe embodying my improvements. Fig. 2 is a sectional view of part of the heel portion through the line *x x*. Fig. 3 is a perspective view of the detached heel-counter, and Fig. 4 is a sectional view of the same through the line *y y*.

A is the upper of the shoe.

B is the counter, having the center of its back in the case of the heel extended upward in the piece *b*.

C is a channel running around the counter, and is made by the operation known as "skiving." (Shown in Fig. 4.) This channel makes a slit, *d*, which is opened and filled with waterproof cement D, thus holding it in the position shown in Figs. 2 and 4, thereby making a shoulder, *d*.

F is the protecting-tip, terminating in the edge E, and having its inner surface, *e*, preferably coated with some water-proof cement or other impervious material. This protecting-tip F fits into the depressed portion of the upper A, formed by the shoulder at *d* in the counter B, and is even with the face of the upper, or substantially so.

L is the inside lining of the shoe.

All of these parts are nailed, pegged, or sewed at G, and attached to the heel H, as in the ordinary form of shoes. A similar construction is made in the tip, and the tip I is sewed or pegged to the sole at J.

It will be observed that these protecting-tips are not sewed either in the heel or toe to the upper of the shoe above the sole, but fit closely thereto in consequence of the shoulders formed by skiving the box or counter, and thereby present an even surface both within and without the shoe. The usual seam, which extends down the back of the upper at the heel, is covered by the heel-protecting tip, and great strength is thereby added to the shoe, which is increased by the extension *b* of the counter. The internal coating of those tips with a water-proof cement makes them impervious to water, and thereby adds greatly to the value of the shoe. The box or counter necessarily comes higher on the upper than the tips, as the channels are formed below the free or upper edges thereof, and the free or top edges of the tips fit below the channels; hence the upper or free edges of these tips are fully protected and prevented from being broken down.

Insomuch as the arrangement of parts and the method of attachment is identical for the heel and toe, the description and drawings have been made with reference to the former; but it is understood that the invention is exactly similar and equally applicable to both.

While the details of construction here shown are those preferred, I do not limit my invention to them, as it is evident that they may be varied in many ways without departing from the principle of my invention.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a shoe, the combination of a counter or box for a heel or toe having a continuous shoulder near its upper edge, the upper fitting over

said counter or box and having a depressed portion formed by the shoulder, and a protecting-tip fitting into said depressed portion, substantially as and for the purpose specified.

2. In a shoe, the combination of a counter or box for a heel or toe, having a continuous shoulder made by skiving near its upper edge, and filling the channel thus formed with waterproof cement, the upper fitting over said counter or box, and having a depressed portion formed by the cement-filled shoulder, and a protecting-tip fitting into said depressed portion, substantially as and for the purpose specified.

3. In a shoe, the combination of a counter or box for a heel or toe, having a continuous shoulder near its upper edge, the upper fitting over said counter or box, and having a depressed portion formed by the shoulder, and a protecting-tip fitting into said depressed portion, and having its inner surface covered with waterproof cement, substantially as and for the purpose specified.

4. The combination of the counter or box B, having the shoulder *d*, the upper A, fitting over said counter or box B, forming the depressed part K, and the protecting-tip F, fitting into the depressed part, substantially as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

CHARLES A. ERDMAN.

Witnesses:
R. M. HUNTER,
RICHD. S. CHILD, Jr.