

(Model.)

J. C. FRENCH.
INSOLE.

No. 445,312.

Patented Jan. 27, 1891.

Fig. 1.

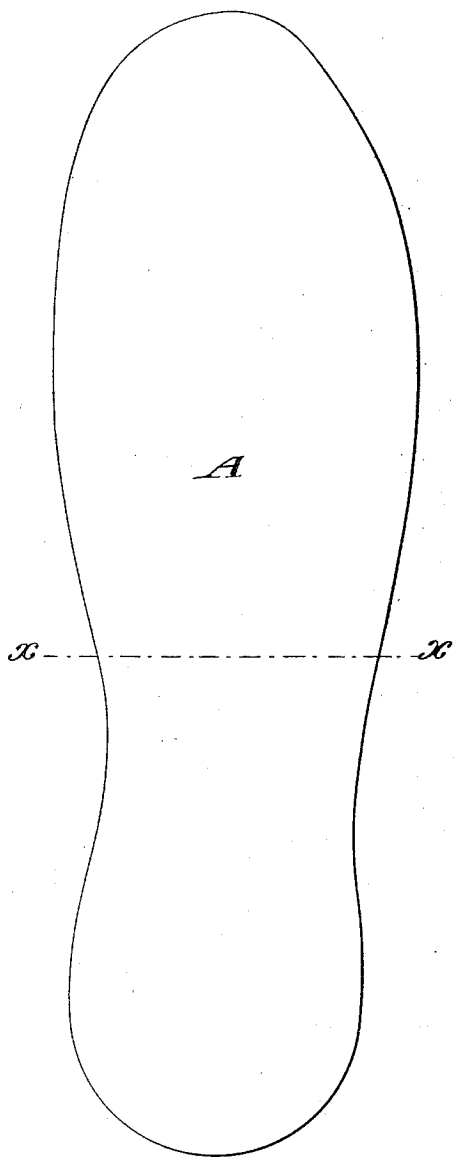


Fig. 2.

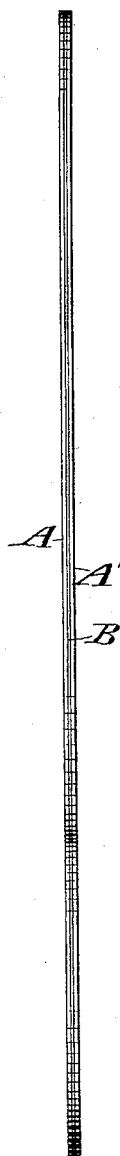


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES C. FRENCH, OF BROOKLYN, NEW YORK.

INSOLE.

SPECIFICATION forming part of Letters Patent No. 445,312, dated January 27, 1891.

Application filed January 24, 1890. Serial No. 337,916. (Model.)

To all whom it may concern:

Be it known that I, JAMES C. FRENCH, of Brooklyn, in the county of Kings and State of New York, have invented a certain new and useful Improvement in Insoles for Boots and Shoes, of which the following is a specification.

I will describe in detail an insole embodying my improvement, and then point out its novel features in a claim.

In the accompanying drawings, Figure 1 is a face view of an insole embodying my improvement. Fig. 2 is an edge view of the same. Fig. 3 is a transverse section taken on the line *xx*, Fig. 1.

Similar letters of reference designate corresponding parts in all the figures.

A A' designate layers of material so shaped as to substantially conform to the interior of a boot or shoe adjacent to the sole. The material of which these layers is formed will preferably be leather. The layers might, however, be formed of felt or other well-known fabric, and for the purposes of this invention such felt or fabric is considered the equivalent of leather. Intermediate of the layers A A' is a layer B, which layer is shaped similarly to the layers A A'. The layer B is made of thin sheet metal—such, for instance,

as brass or tin—and is secured to the layers A A' by means of a suitable cement, preferably water-proof cement.

My improvement presents the advantage of flexibility, while at the same time it is impervious to moisture. The moisture is prevented from creeping through the metallic plate, as the same is imperforate, and it is also prevented from creeping between the metal and the layers secured thereto by the cement used as a binder. The metallic layer also strengthens the insole against wrinkling.

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

As an article of manufacture, an insole for boots and shoes, comprising layers of leather or similar material shaped to substantially conform to the interior of the boot or shoe adjacent to the sole, and an intermediate layer of thin sheet metal of substantially the same shape as the layers of leather or similar material and cemented to the said layers of leather or similar material, the said insole being separable from the boot or shoe, substantially as specified.

JAMES C. FRENCH.

Witnesses:

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