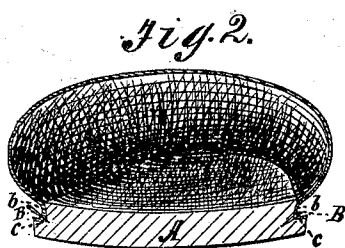
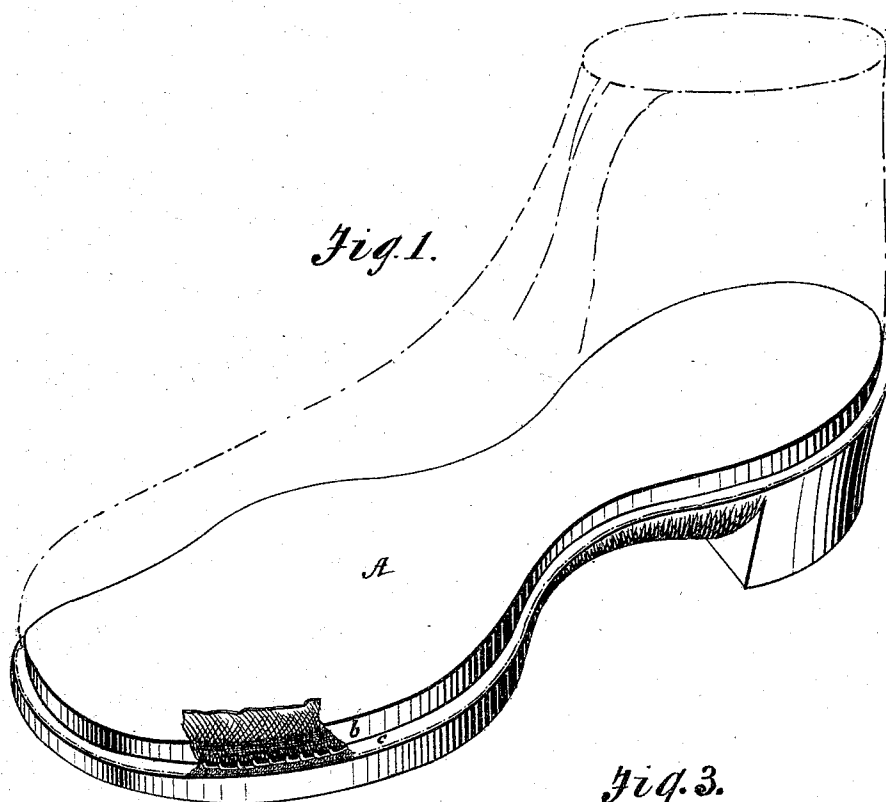


W. STRASSER.

Modes of Uniting Boot and Shoe Soles to the Uppers.

No. 140,964.

Patented July 15, 1873.



Witnesses:
G. Watkins
Edw. C. Kemon

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UNITED STATES PATENT OFFICE.

WENDELL STRASSER, OF TAYLORSVILLE, ASSIGNOR TO HIMSELF AND
SAMUEL S. BAUGHMAN, OF MUSKINGUM COUNTY, OHIO.

IMPROVEMENT IN THE MODES OF UNITING BOOT AND SHOE SOLES TO THE UPPERS.

Specification forming part of Letters Patent No. **140,964**, dated July 15, 1873; application filed
June 7, 1873.

To all whom it may concern :

Be it known that I, WENDELL STRASSER, of Taylorsville, in the county of Muskingum and State of Ohio, have invented a new and Improved Boot and Shoe Sole; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification :

The invention relates to wooden-soled shoes, for skating or walking purposes; and consists in a peculiar method of applying double nails in fastening the uppers of shoes to the sole, so as to form practically a metallic thread, which makes the article of manufacture to all intents and purposes a sewed shoe.

Figure 1 is a perspective view, and Fig. 2 a vertical section, showing my improvements.

In the drawing, A represents a wooden sole, having the deep channel made under the upper edge by the conjunction of the downward bevel *b* and the horizontal or slightly beveled lower face *c*. The upper, being cut out by a suitable measure, and in one or more pieces, its edge is brought down into the channel and fastened thereto by the double shoe-nails B, each of which consists of two nails, held together by an intervening piece of metal, and made of a single piece, sharpened at both ends, and bent at two points, at right angles to the median piece. These interlock with each

other, and form a continuous metallic thread, which tightly holds the upper to the sole. This channel forms a bed for the edges and fastening, and may be used with nails of other shapes, if preferred.

When the end of one nail has been driven home, the end of the next is forced down into contact with that of the first, or into close proximity therewith, and on the inner side thereof. This has the effect of wedging one nail against the other, and thus producing a remarkably secure fastening.

This construction gives the stiff sole, which is best adapted for a walking or skating shoe. In the latter, it allows the skate to be strapped tightly without cramping the foot, which is unavoidable with the ordinary leather sole, unless the latter is made cumbersome, thick, and undesirably heavy.

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

A series of nails, B, applied together to the sole and upper of a shoe, and made to interlock in the manner and for the purpose specified.

WENDELL STRASSER.

Witnesses:

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