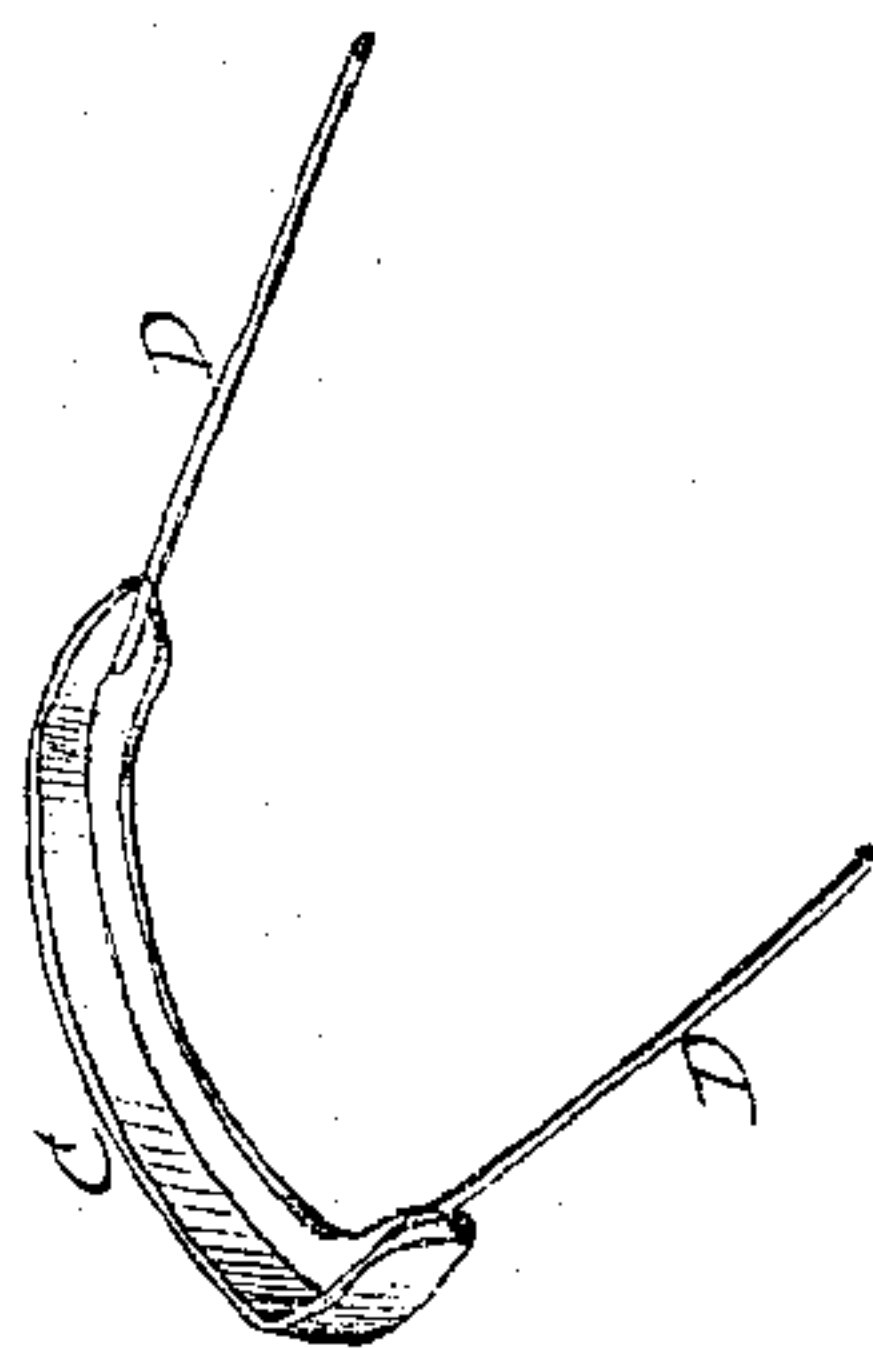
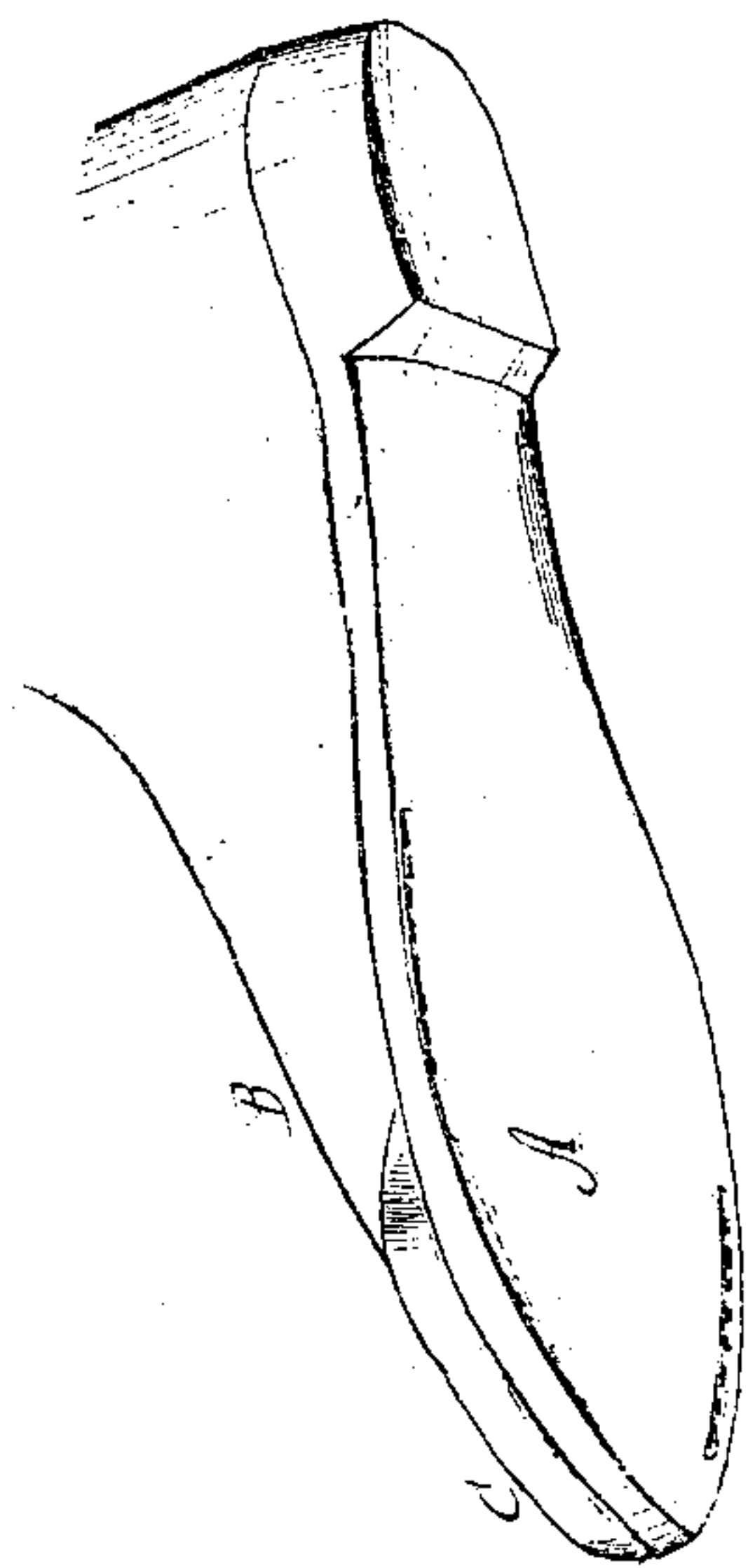


M. Pettengill,

Shoe Tih.

No. 103,772,

Patented May 31, 1870.



Witnesses
M. Vorlaender
E. S. Mabel

Inventor
M. Pettengill
per: M. M. & Co
Attorneys

United States Patent Office.

MANASSEH PETTENGILL, OF LE ROY, MINNESOTA, ASSIGNOR TO HIMSELF
AND SOLON JONSON, OF OMRO, WISCONSIN.

Letters Patent No. 103,772, dated May 31, 1870.

IMPROVEMENT IN METAL TIPS FOR BOOTS AND SHOES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, MANASSEH PETTENGILL, of Le Roy, in the county of Mower and State of Minnesota, have invented a new and useful Improvement in Metal Tips for Shoes and Boots; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to a new and improved method of constructing copper or other metal tips for the toes of shoes and boots, and it consists in constructing the tip with tough malleable wires attached to its ends, and fastening the tips to the shoe or boot thereby, as hereinafter more fully described.

In the accompanying drawing—

Figure 1 is a perspective view of a shoe with my metallic tip applied.

Figure 2 is a view of the top detached.

Similar letters of reference indicate corresponding parts.

A is the shoe-sole.

B is the upper-leather of the shoe.

C is the tip, made of copper or other suitable metal,

curved and bent so as to correspond with and fit the toe of the shoe, provided with fastening-wires D D, of copper or of other tough and strong material, attached to each end of the tip, by soldering or otherwise, as seen in the drawing.

One or more holes are made in the sole, with an awl, at each end of the tip, through which the wires are tightly drawn with pliers. The wires are then cut off, and the fastening is then complete.

This metallic lip may be applied by almost any one, to almost any kind of boot or shoe. It does not interfere with repairs, and is separate and distinct from those tips which can be attached only when the shoe is in the process of manufacture.

Having thus described my invention,

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

As a new and improved article of manufacture, the tips C provided with wires D D, and applied to boots and shoes, substantially as described.

MANASSEH PETTENGILL.

Witnesses:

J. M. WYCKOFF,
G. T. ANGELL.