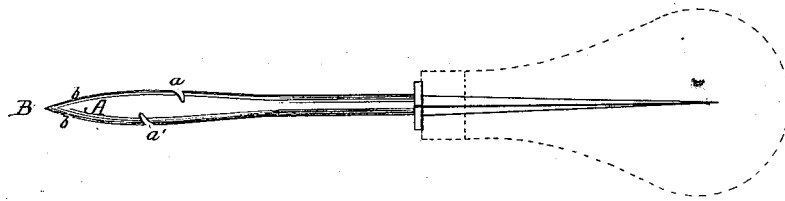


S. A. SMITH.
Awl for Shoemakers.

No. 161,562.

Patented March 30, 1875.



WITNESSES:

John C. Kemou
Chas. A. Pettit

INVENTOR:

S. A. Smith
BY *Wm. T. B.*

UNITED STATES PATENT OFFICE.

SYLVESTER A. SMITH, OF MUSCATINE COUNTY, IOWA.

IMPROVEMENT IN AWLS FOR SHOEMAKERS.

Specification forming part of Letters Patent No. **161,562**, dated March 30, 1875; application filed February 13, 1875.

To all whom it may concern:

Be it known that I, SYLVESTER A. SMITH, of Muscatine county, in the State of Iowa, have invented a new and Improved Awl; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which the figure represents a side view of my awl.

The invention relates to a novel improvement in shoemakers' awls, whereby the usual bristles on the waxed ends of threads are rendered entirely unnecessary.

A represents an awl, having the notch *a* inclined toward, and the notch *a'* inclined from, the point. The thread has one of its small ends placed in the notch *a*, which opens toward the point, and is then pushed through the leather with the awl. Before retracting

the awl the other end of the thread is placed in the notch *a'*, that inclines from the point, the awl then being withdrawn with the thread.

The effect is to form the same stitch usually made with a common awl, thread, and bristles. I save the cost of the bristles, the expense of applying them, and am enabled to sew much faster. I also make the end B flat, and with edges *b b* sharp, so that the sewing is done with more facility and increased rapidity.

Having thus described my invention, what I claim as new is—

An awl having the inclined notches *a a'*, as and for the purpose described.

SYLVESTER A. SMITH.

Witnesses:

T. F. ESTLE,
E. SMITH.