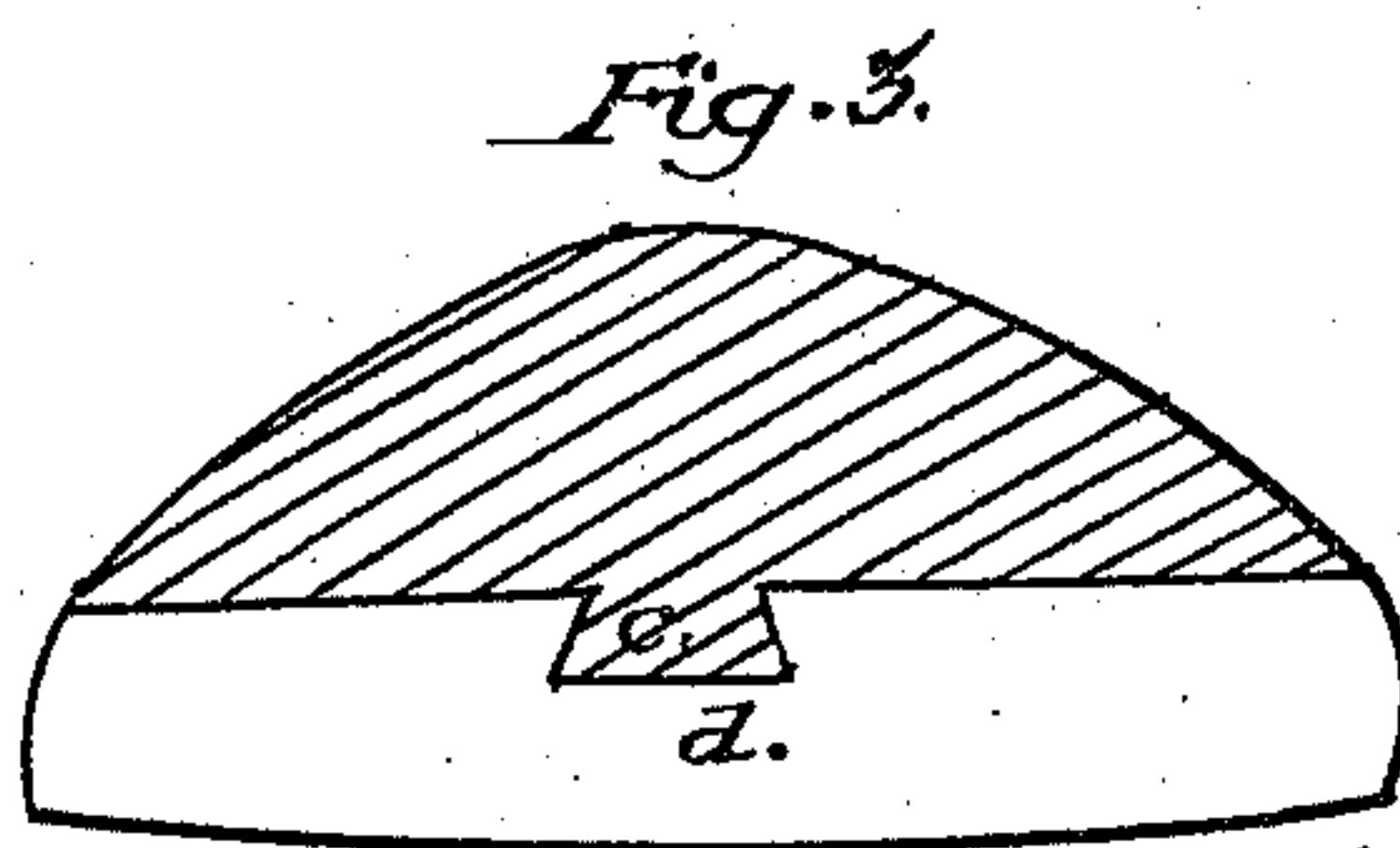
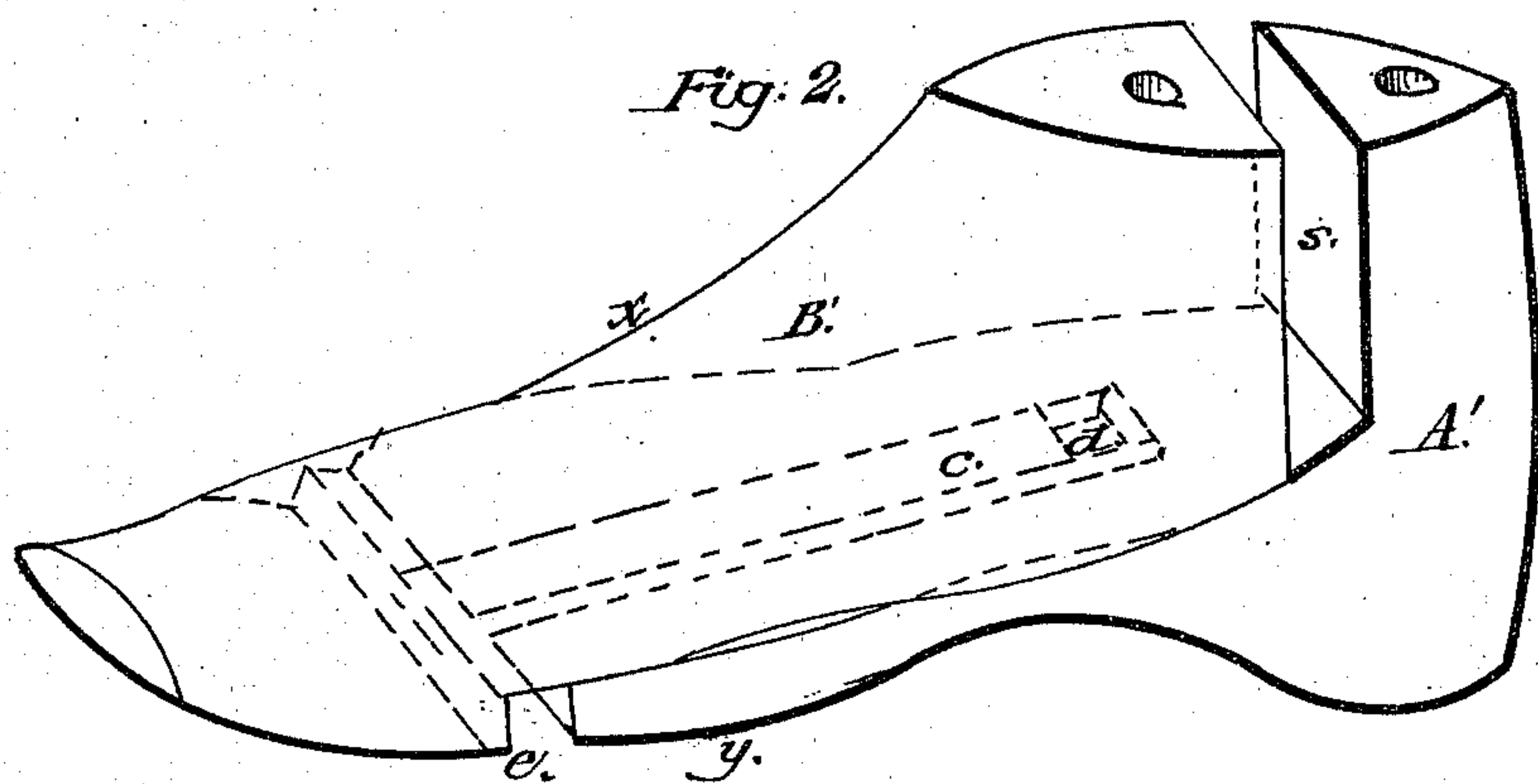
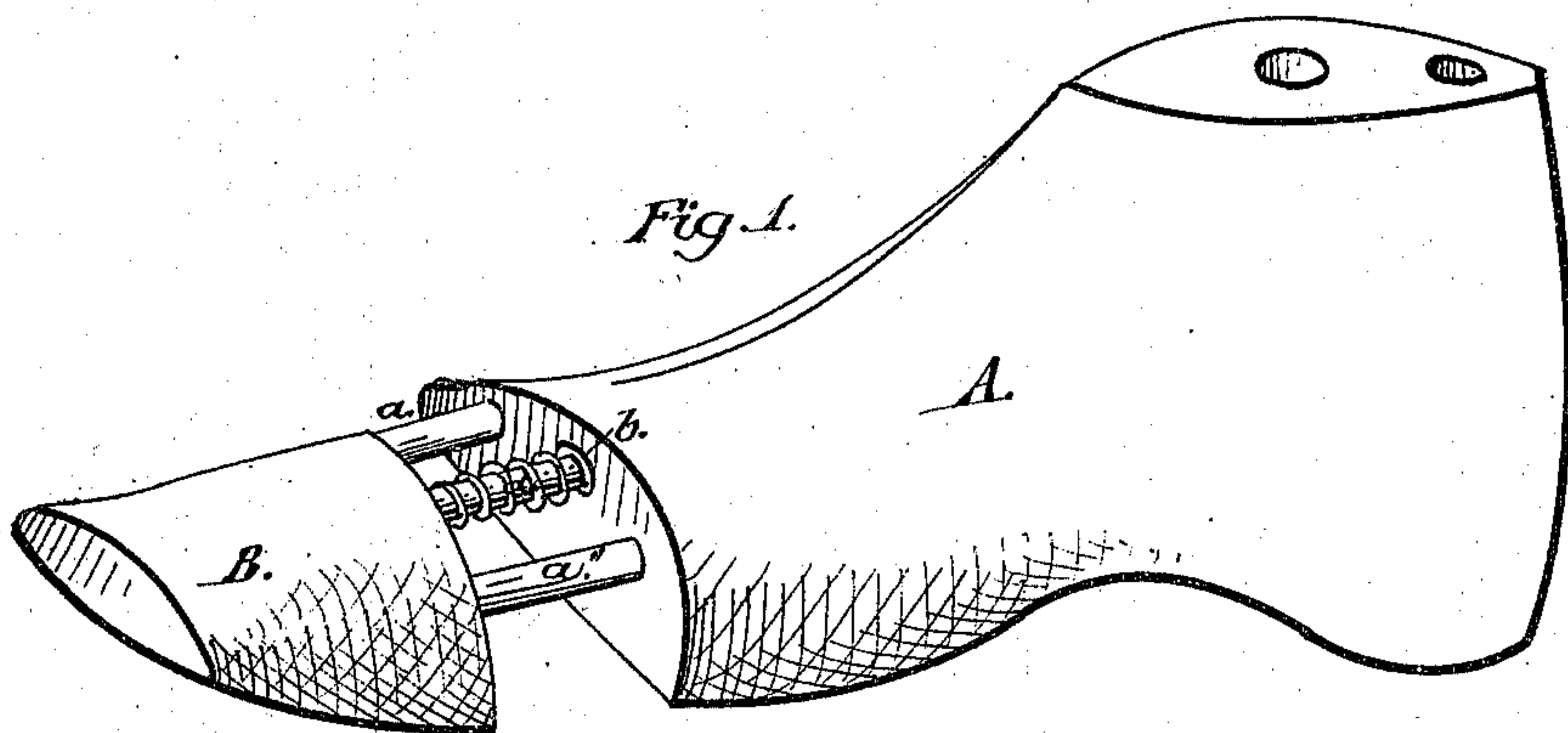


M. H. Pool,

Last.

No. 87,590.

Patented Mar. 9. 1869.



Witnesses:
Dresbach & Kasm
P. C. Sanderson

Inventor:
Micah H. Pool
per Carroll D. Wright
attorney.

United States Patent Office.

MICAH H. POOL, OF EAST ABINGTON, MASSACHUSETTS.

Letters Patent No. 87,590, dated March 9, 1869.

IMPROVED LAST.

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

To whom it may concern:

Be it known that I, MICAH H. POOL, of East Abington, in the county of Plymouth, and State of Massachusetts, have invented certain Improvements in Lasts; and do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 represents a last in perspective, embodying my invention.

Figure 2 represents a last in perspective, showing a modification, or equivalent, of fig. 1.

Figure 3 is a transverse sectional view of last, shown in fig. 2, on line *x y*.

The object of my invention is to produce an extension-last, to be used more especially in finishing the shanks of boots and shoes, when it is desirable to have the last the length of the boot or shoe, but not particularly essential to have the boot or shoe fitted at the instep.

The nature of my invention consists in having the toe of the last attached to the body of the last by rods, and extended by springs, so that the last will fit in length any size, or to have the last in sections, held by tongue and groove.

In the drawings, in fig. 1—

A is the body of the last.

B, the toe.

Rods *a*, *a'*, and *a''*, are set fast into the toe-section, B, and extend into the foot or body of the last A.

Upon one or more, if greater strength is wished, of these rods, is placed a spiral spring, *b*, bearing against toe B and body A.

Now the toe can be pressed close up to the body of

the last, if the last is to be used in a small-sized boot or shoe; or, if in a larger size, the spring or springs readily adjust the length of last to size of boot or shoe.

In fig. 2 is shown another method of accomplishing the same result.

The last is cut into two parts, A' and B'.

These parts are connected by dovetailed grooves, or tongue *c*, and groove *d*.

Now, when it is desired to extend the length of the last, wedges are inserted into the space S, thus extending the toe of the last to the length of boot or shoe to be lasted.

It will be understood that these lasts are for use only when it is desired to have the sole lasted without reference to the lasting of the uppers; and for finishing shanks, for which it is especially adapted, it is a most convenient and time-saving invention.

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

1. An extension-last, composed of parts A and B, rods *a*, *a'*, and *a''*, and spring *b*, substantially as and for the purposes set forth.

2. An extension-last, composed of parts A' and B', tongue *c*, and groove *d*, as shown in fig. 2, as equivalents of construction shown in fig. 1.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

MICAH H. POOL.

Witnesses:

CARROLL D. WRIGHT,
THOMAS C. BACON.