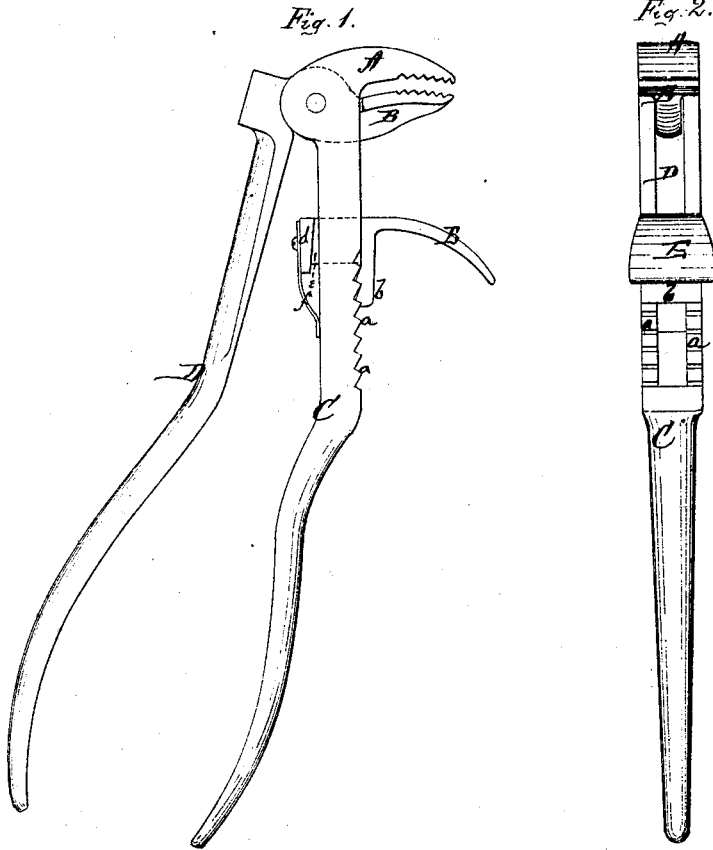


*M. Walpole,*

*Shoemakers Pincers.*

*No. 111,889.*

*Patented Feb. 14, 1871.*



Witnesses:

*Chas. Jacobs*  
*J. White*

Inventor:

*Michael Walpole.*

*Per*

*Wm. Alexander*  
*Att'y.*

# United States Patent Office.

MICHAEL WALPOLE, OF MILFORD, MASSACHUSETTS.

Letters Patent No. 111,889, dated February 14, 1871; antedated February 4, 1871

## IMPROVEMENT IN PINCERS FOR SHOE-MAKERS.

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, MICHAEL WALPOLE, of Milford, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Fulcrum-Pincers for Boot and Shoe-Makers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

My invention relates to and is intended as an improvement upon the "fulcrum-pincers" for which Letters Patent were granted to me; and consists in the construction and mode of adjusting the fulcrum, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view, and

Figure 2 is a front view of my improved pincers.

A represents the upper, and

B, the lower jaw, constructed with their respective handles C and D in the same manner as described in my former patent, above referred to.

The handle C is slotted for a suitable distance below the jaw A, for the insertion and pivoting of the lower jaw B in the upper end, and for the fulcrum E to move up and down.

At the lower end, on each side of said slot in the handle C, are formed ratchet-teeth *a a*, on the front side.

The fulcrum E has, at its inner end or base, a downward-extending projection, *b*, which is, on its inner

side, provided with teeth fitting in the ratchet-teeth *a a*.

It has also a flat tenon, *e*, which passes through the slot in the handle C, and is, at its end, provided with a head, *d*.

This head is leveled on the side toward the slotted handle, as shown in fig. 1, and a spring, *f*, is secured to the back thereof, which spring extends downward and bears against the inner side of the handle.

By the means of this spring the fulcrum E is held firmly at any point where it may be set, and it is moved by an upward pressure on the fulcrum, which releases the teeth on the projection *b* from the ratchet-teeth *a a*, the beveling of the head *d* allowing or rendering this movement possible.

Having thus fully described my invention,

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

1. The slotted handle C, provided with ratchet-teeth *a a* on each side of the slot, substantially as and for the purposes herein set forth.

2. The fulcrum E, provided with toothed projections *b*, tenon *e*, head *d*, and spring *f*, all constructed and arranged to operate substantially as and for the purposes herein set forth.

3. The combination of the jaws A B, handles C D, teeth *a a*, fulcrum E, projection *b*, tenon *e*, head *d*, and spring *f*, all constructed and arranged as described, to operate substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

Witnesses: MICHAEL WALPOLE.

GEO. G. PARKER,  
W. P. PARKHURST.