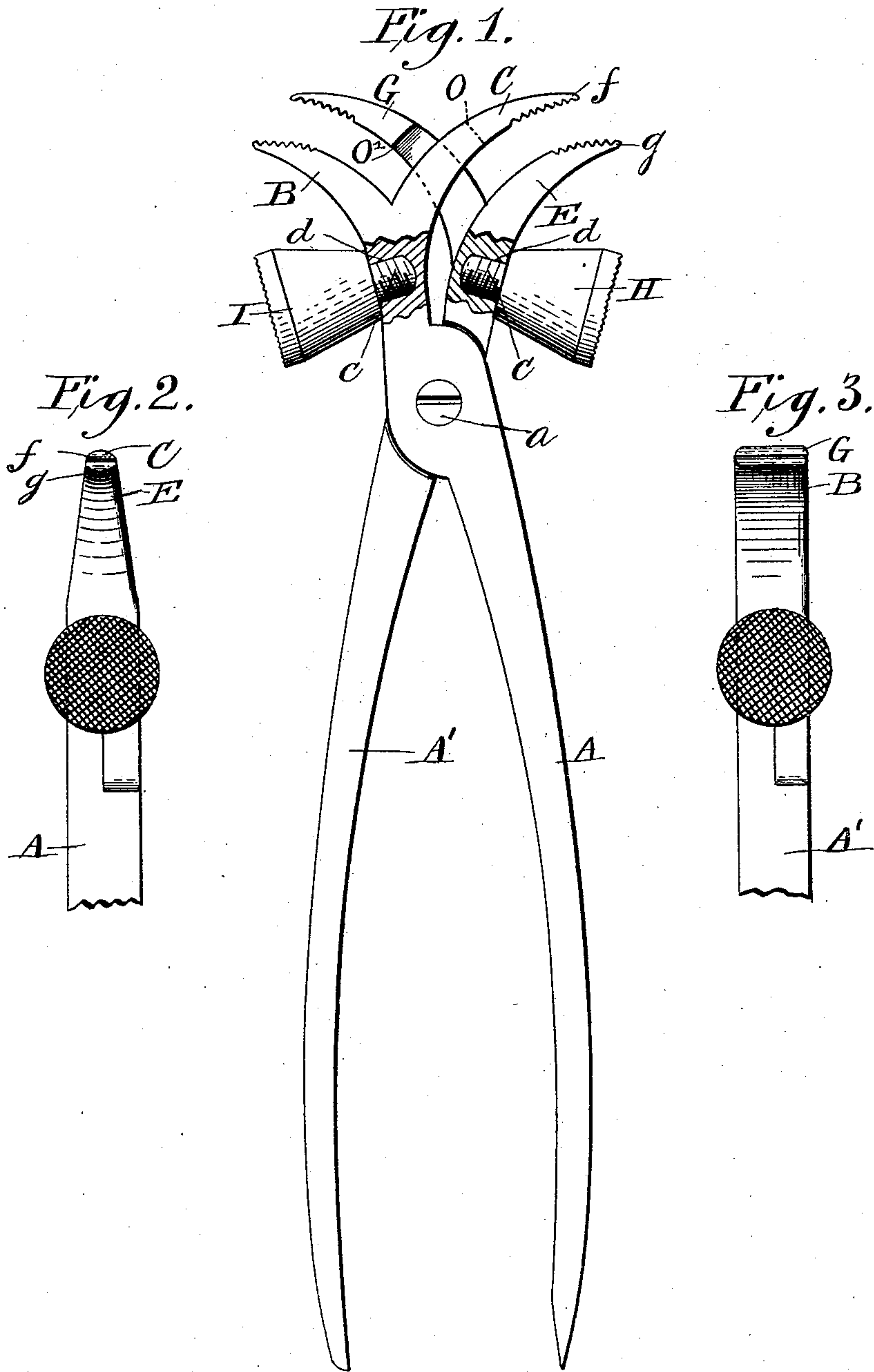


(No Model.)

G. W. MORRILL.  
LASTING PINCHERS.

No. 480,433.

Patented Aug. 9, 1892.



Witnesses

Jack Blackwood  
R. F. Heek

Inventor  
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By his Attorney J. W. Egin.

# UNITED STATES PATENT OFFICE.

GEORGE W. MORRILL, OF ALTON, NEW HAMPSHIRE, ASSIGNOR OF ONE-HALF  
TO ELLSWORTH H. ROLLINS, OF SAME PLACE, AND SYLVESTER A. EDGERLY  
AND CHARLES F. PIPER, OF WOLFBOROUGH, NEW HAMPSHIRE.

## LASTING-PINCHERS.

SPECIFICATION forming part of Letters Patent No. 480,433, dated August 9, 1892.

Application filed April 15, 1892. Serial No. 429,250. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. MORRILL, a citizen of the United States, residing at Alton, in the county of Belknap and State of New Hampshire, have invented certain new and useful Improvements in Lasting-Pinchers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in lasting-pinchers such as are used for drawing the upper of a boot or shoe over a last. The pinchers of the class as usually made have a single pair of jaws, and in order that the boot or shoe may be lasted nicely around the toe it is necessary that the jaws should be narrow; but where the jaws are narrow the operation is quite likely to tear a piece of leather out of the upper when lasting some portion of the shoe other than the toe.

The object of my invention is to obviate this difficulty by producing pinchers with a double pair of jaws, one pair being narrow and adapted for toe-lasting and the other pair being broad, so as to enable the operator to get a good grip on the leather and adapted for lasting other portions of the boot or shoe.

To this end my invention consists in lasting-pinchers having a plurality of jaws, the construction and arrangement of which will be hereinafter described and claimed. It is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of pinchers embracing my invention; Fig. 2, a front view showing the narrow jaws, the handles of the pinchers being broken off; and Fig. 3 a similar view showing the wide jaws.

In the drawings, A A' are the usual handles, which are pivoted together, as shown at *a*, in the usual way, and one of the handles projects beyond its pivot and terminates in jaws B and C, the jaw B curving outward and hav-

ing a convex corrugated surface and the jaw C branching outward from the jaw B and extending in the opposite direction, this jaw having its outer or free end *f* narrowed and corrugated on the under side. The opposite member of handle A' of the pinchers is constructed in a similar way but this member has its outwardly-curved jaw E provided with a narrow end *g*, corrugated on its convex surface, and the jaw E is constructed to act in unison with jaw C, these jaws serving for narrow pinchers. Branching from the jaw E and curved in the opposite direction is a jaw G, which is corrugated on its inner side, and this jaw acts in unison with the jaw B, the jaws B and G being broad or wide, as shown in Fig. 3. The jaws C and G slide upon one another and are provided with overlapping shoulders O O', respectively, which limit the outward movement of the jaws. When one pair of jaws is opened, the other pair is also opened and either may be used to grip the leather.

The pinchers are provided with two hammer-heads H I, one located adjacent to the narrow jaws and the other opposite or adjacent to the wide jaws. These hammer-heads are each provided with a screw-threaded shank *c*, which engage the screw-threaded holes *d* in the pinchers. Thus it will be seen that either one or both of the hammer-heads may be detached when it is so desired.

The pinchers are used in the ordinary way—that is to say, the jaws B and G will be used in lasting the main portion of the shoe; but in drawing the upper around the toe the jaws C and E will be used, and when either pair is used, as there are double hammer-heads, there will be a hammer convenient with which tacks may be readily driven.

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

In a pair of pinchers having a single pair of handles, the combination of the handle A, provided with two integral outwardly-curving oppositely-inclined jaws B C, the jaw C being narrow at its end *f* and having a shoulder O



and the jaw B wide, and a detachable hammer-head I, provided with a screw-threaded shank *c*, adapted to engage the screw-threaded hole *d*, with the handle A', provided with two  
5 integral oppositely-inclined jaws E G, the jaw E being narrow at its end *g* and the jaw G wide and provided with a shoulder O', and a detachable hammer-head H, provided with a

shank *c*, engaging with screw-threaded hole *d*, substantially as described. 10

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. MORRILL.

Witnesses:

SEWALL W. ABBOTT,  
M. M. GRAVES.