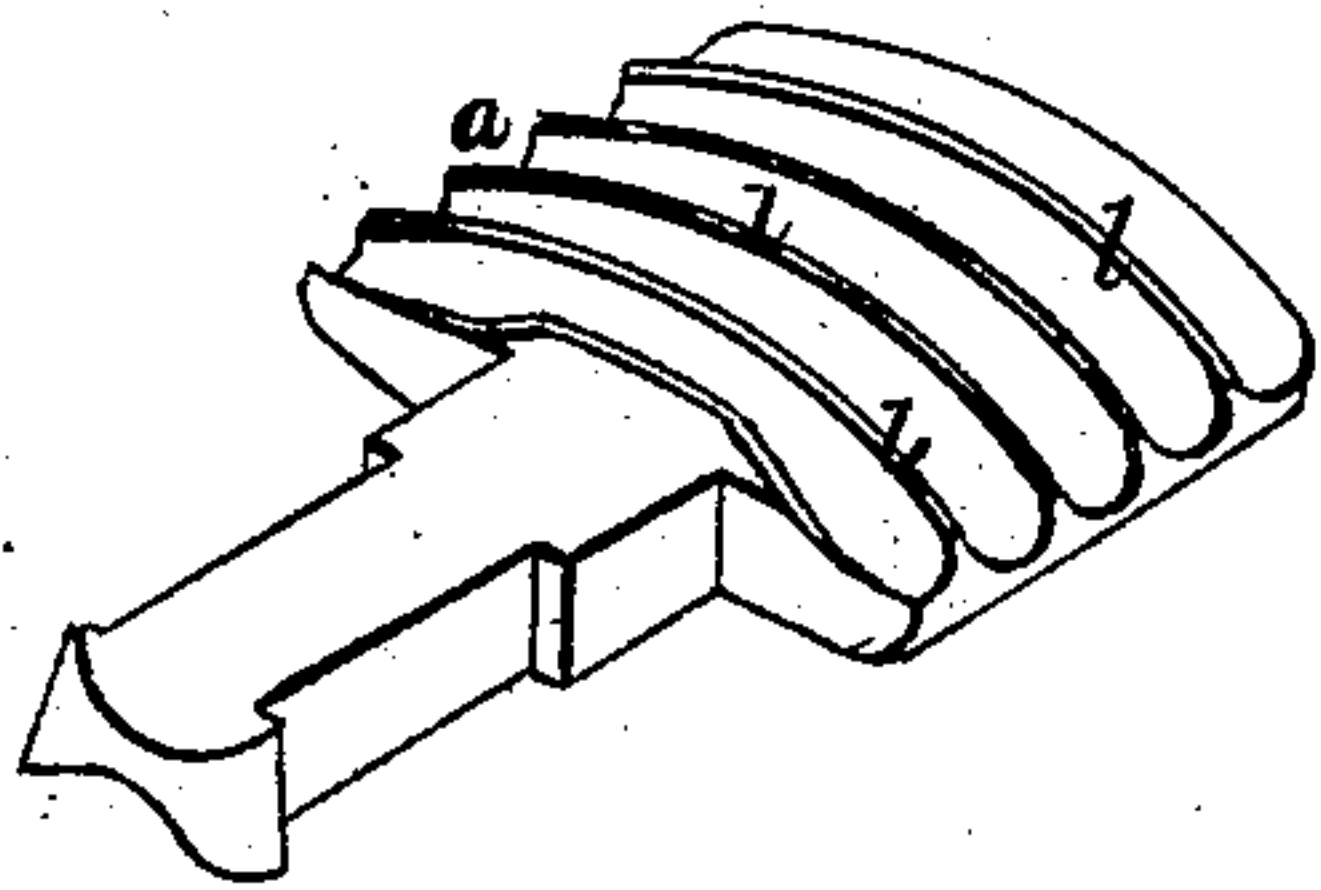


*Mann & Howard*

*Boot Crimper,*

*N<sup>o</sup> 81,096.*

*Patented Aug. 18, 1868*



*Witnesses*  
*Geo. A. Loring.*  
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*by their Attorney,*  
*Frederick A. Quetel*

# UNITED STATES PATENT OFFICE.

ELBRIDGE MANN AND A. J. F. HOWARD, OF MILFORD, MASSACHUSETTS.

## IMPROVEMENT IN BOOT-CRIMPS.

Specification forming part of Letters Patent No. 81,096, dated August 18, 1868.

*To all whom it may concern:*

Be it known that we, ELBRIDGE MANN and A. J. F. HOWARD, of Milford, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Boot-Crimpers; and do hereby declare the following to be a full, clear, and exact description thereof, due reference being had to the accompanying drawing, which is a perspective view of one of the movable jaws of a boot-crimper constructed in accordance with the ideas of our invention.

This invention is an improvement in that class of boot-crimpers composed of a joined clasp or yoke, provided with a straining-screw and pyramidal block or spreader, and two movable serrated or pivoted jaws, the corners of the "upper" of the boot being incased between the clasp and the movable jaws, which are forced together by the pyramidal block.

The invention relates to means for preventing lateral displacement of the leather between the clasp and movable jaws; and consists in forming the teeth of the movable jaws of a curved or sectoral shape instead of straight, as heretofore.

In the drawing accompanying this specification, *a* denotes one of the movable jaws of a boot-crimper, constructed in the ordinary manner of such implements, with the exception that the bars or teeth *l l*, &c., which traverse its outer face, are of a curved or segmental shape.

It has been found in practice that, as the corners or uppers of the boot are strained about the crimping-block in the act of nailing

or tacking it thereto after the pressure of the crimper has been applied to it, the leather inclosed in such crimper slips in a lateral direction, and is drawn to one side or the other of such crimper, with serious results and inconveniences, well known to persons accustomed to crimping boot-uppers. The form of the teeth, as shown in our present invention, effectually prevents this lateral displacement of the leather, and renders the crimper of much more value than as formerly constructed.

The curved form of the teeth, while accomplishing the desired result, does not indent or abrade the surface of the leather, should it slip upon it in extreme cases, as would be the case were a series of points or short teeth to be substituted for curved teeth.

It will be obvious that substantially the same results would accrue if the curved teeth were formed upon the inner face of the jaws of the clasp instead of upon the movable jaw.

We claim as our invention and desire to secure by Letters Patent of the United States—

The construction of the movable jaw *a*, as having its teeth of a curved or irregular shape, in manner and for the purpose as before described.

ELBRIDGE MANN.

A. J. F. HOWARD.

Witnesses to the signature of E. Mann:

W. J. MANN,

EDWIN B. TAFT.

Witnesses to the signature of A. J. F. Howard:

EDWARD GRIFFITH,

FRED. CURTIS.