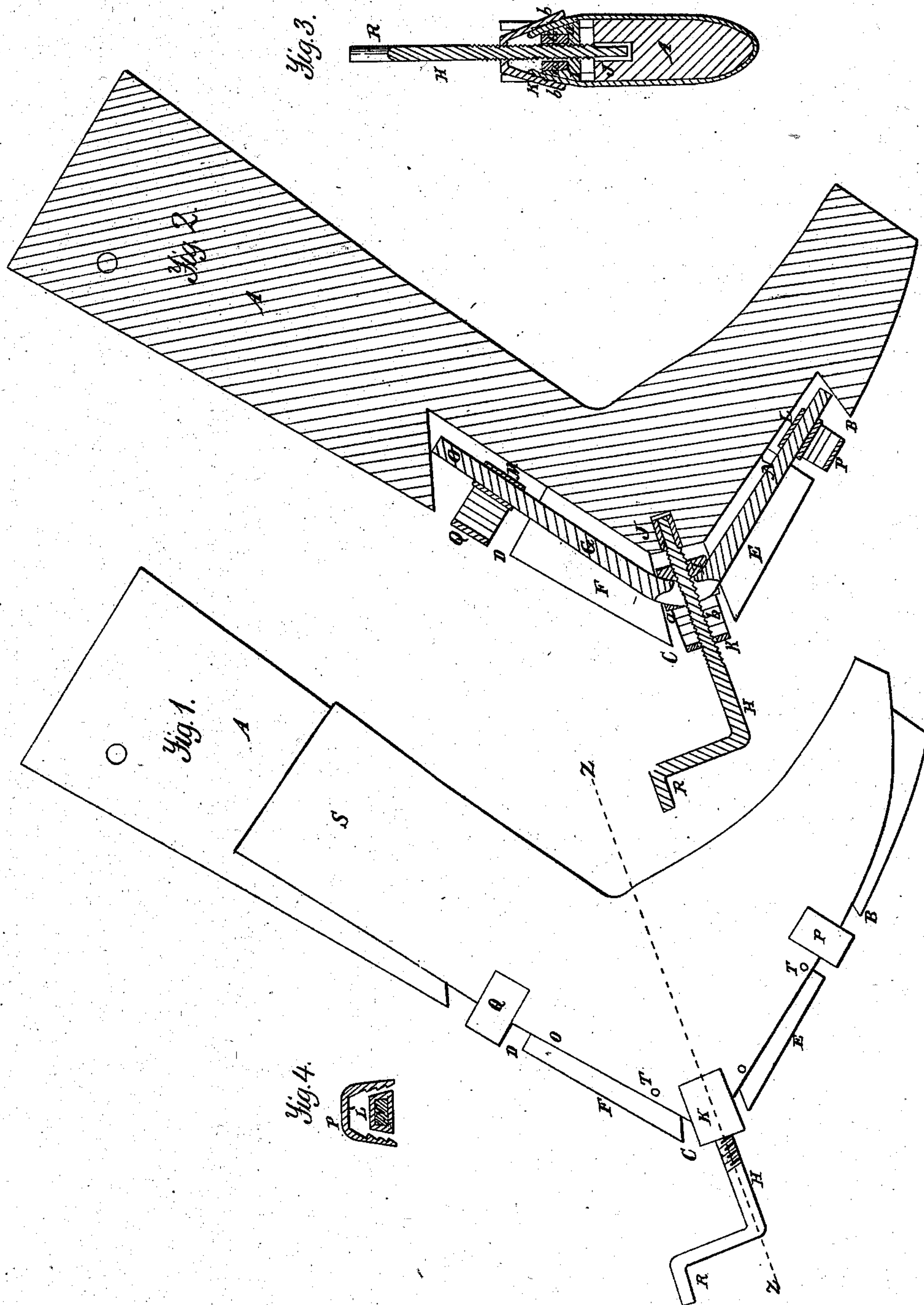


T. Daugherty,
Crimping Leather.

N^o 12,816.

Patented May 8, 1855.



UNITED STATES PATENT OFFICE.

THOMAS DAUGHERTY, OF ERIE, PENNSYLVANIA.

BOOT-CRIMP.

Specification of Letters Patent No. 12,816, dated May 8, 1855.

To all whom it may concern:

Be it known that I, THOMAS DAUGHERTY, of Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Boot-Crimps; and I do hereby declare that the same are described and represented in the following specification and drawings.

To enable others skilled in the art to make and use my invention I will proceed to describe their construction and use, referring to the drawings in which the same letters indicate like parts in each of the figures.

Figure 1, is an elevation of the crimp with the vamp or front of a boot upon it. Fig. 2, represents a section of Fig. 1, cut perpendicularly through the center. Fig. 3, represents a section of Fig. 1, cut through the line Z Z.

I make a crimp board A in the form represented in the drawing and cut scores in the edge as represented at B, C and D, and make a groove in the edge in the parts E and F for the elbow G which is made of metal in the form represented and perforated so as to traverse freely upon the screw H and so as to vibrate upon the nut I which is rounded where the elbow rests upon it, so as to allow it to do so with facility. I fasten a perforated metal step J in the crimp board in the position represented and fit the end of the shaft of the screw H into it so as to turn freely (but not vibrate as the elbow vibrates upon the nut). The nut I is fitted to the screw H and provided with projections *a a* which extend up each side of the elbow G so as to form two inclined planes which correspond with the inside of the clasp K; which clasp is perforated so as to traverse freely upon the screw H, and the inside of the arms *b b* are scored as represented, so as to seize and gripe the leather upon the projections *a a* of the nut as will be described hereafter. I make some slides L and M and fit them to the arms N and O of the elbow G so as to traverse freely, and make the outside in the form of the section of a wedge, see Fig. 4, so as to correspond with the inside of the clasps P and Q as represented, the arms of which clasps are scored upon the inside similar to K and for the same purpose. The shaft of the screw H is bent so as to form a crank R to turn the screw.

The crimp having been constructed and completed as above described, I place the

elbow G in the bottom of the groove in the parts E and F and wet a piece of leather S, cut in a proper form for the front of a boot and place it upon the board A and draw the corners down or out onto the projections *a a* of the nut I, and hold them and push the clasps K onto them so as to hold or seize the corners of the leather and retain them there; while I slip the slide L up to the part E and draw the edges of the leather onto it and push the clasp P onto them to retain them; while I slip the slide M down to the part F and draw the edges of the leather onto it and push the clasps Q onto them to hold them while I turn the screw H and raise the nut I and elbow G which lifts or carries out the slides L and M which slip upon the arms of the elbow so as to stretch the leather between the clasps P, Q and K at the same time it is drawn and stretched onto the crimp board. As the screw is turned to stretch the leather S it slips a little on the nut and slides which are made smooth and draws the clasp on, so that the teeth in the inside of the clasps sink into the leather and hold it firmly; as it draws the tighter the clasps grip it. If you wish to change the draft upon any part of the leather turn the screw back, so as to loosen it and change the position of the leather under the clasp or clasps. When the leather is drawn onto the crimp board and stretched as described, it may be fastened with tacks T T as represented in the drawings or otherwise, so that the screw, elbow, slides and clasps may be removed and applied to another crimp board or to a series of crimp boards in succession of the same or of different sizes. The number of slides and clasps may be increased upon the elbow if desired so as to seize the leather in a greater number of places, and the whole of them operated by turning the screw.

Most of the boot crimps heretofore made are either very expensive or very inconvenient to use, and do the crimping very imperfectly, requiring much time and labor to operate them. In the improvements which I have made I have endeavored to remedy these defects, and I have succeeded in the making of a much better and cheaper apparatus and one with which the crimping can be done more perfectly with far less time and labor than has been heretofore required. By making the slides to transverse on the arms of the elbow I draw the leather over

the leg and foot of the crimp board so as to stretch it uniformly and prevent it from gathering in the instep so as to fold or wrinkle as it would otherwise do; full up
5 so as to be thick and stiff and make an uncomfortable boot. By using the same elbow, slides, clasps, etc., for numerous crimp boards of the same or different sizes the apparatus for stretching a quantity of leather
10 costs far less than any other desirable apparatus for doing the same work.

In those crimps in which the elbow and screw are used, and which have no device to prevent the screw from vibrating with the
15 elbow, if one part of the leather stretches more readily than another, so as to tip or vibrate the elbow it carries the screw and the corners of the leather one side or the other of the line Z, Z, so as to draw the
20 leather out of its proper shape which makes it cut to waste. I have remedied that defect by arranging my screw so that it can not vibrate; and making the elbow to vibrate upon the nut; so that the corners of

the leather are drawn in the direction of the line Z, Z, and in that direction only: So that the leather is stretched, so as not to cut to waste, consequently a smaller pattern will
25 answer for a boot of a given size.

What I claim as my invention and desire to secure by Letters Patent in the above described boot crimp is— 30

1. I claim (substantially as above described and shown) the projections E and F to which the leather may be tacked after it
35 is stretched, thereby permitting the stretching apparatus to be removed and applied to another crimping board.

2. The nut I as constructed with projections fitting upon both sides of the elbow; applied and operating substantially as described. 40

In testimony whereof I have hereunto signed my name.

THOMAS DAUGHERTY.

Witnesses:

JOHN O'NEIL,

I. DENNIS, Jr.