

J. D. BACON.
FORMS FOR LEATHER-CRIMPING MACHINES.

No. 195,789.

Patented Oct. 2, 1877

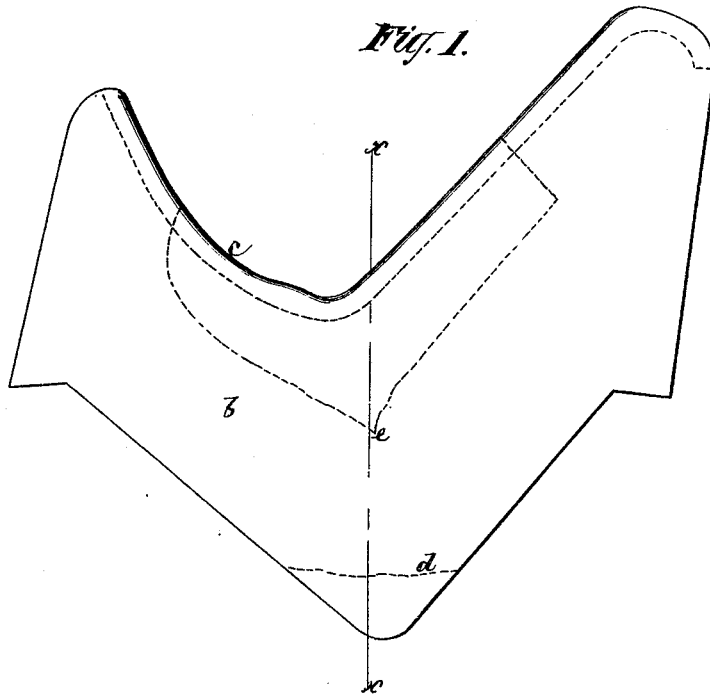
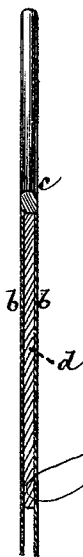


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES D. BACON, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS RIGHT
TO ARTIMAS S. CADY, OF SAME PLACE.

IMPROVEMENT IN FORMS FOR LEATHER-CRIMPING MACHINES.

Specification forming part of Letters Patent No. **195,789**, dated October 2, 1877; application filed
August 15, 1877.

To all whom it may concern:

Be it known that I, JAMES D. BACON, of the city and State of New York, have invented certain new and useful Improvements in "Forms" for Crimping-Machines and Crimping-Breaks, of which the following is a description, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to forms for crimping boot-legs, shoe-vamps, and other parts of boot and shoe uppers. It is applicable not only to crimping-machines proper, but also to "breaks" for preparatively crimping the leather portions of the boot or shoe which require to be so treated.

In carrying out my invention I use a hollow form having flexible sides or cheeks; and the invention consists in a combination therewith of a filling for varying the distances apart of its sides; likewise, in a combination, with said hollow yielding form, of an elastic filling or packing.

The results obtained by said invention are an easier and a more perfect performance of the work without injury to the leather, and whereby various thicknesses of the leather at different parts may be readily smoothed out.

Figure 1 represents a side elevation of an improved crimping plate or form applicable to crimping the fronts or uppers of boots, said view also showing in dotted lines a boot leg or upper in its place on said form. Fig. 2 is a transverse section of the form on the line *x x*.

The form represented in the drawing is constructed with flexible sides or cheeks *b*, joined together or closed at the upper edge *c* of the form. This construction provides for the yielding of the cheeks or sides *b* of the hollow form to conform to the action of the crimping-jaws passing down over it, and to provide for its sides being set in or out. It may be expanded, or have its sides *b* set outward to any desired extent, by introducing between them a filling of metal or other rigid material, so that the crimping-jaws will exert more or less draw on the leather placed over the form, according to the thickness of the filling introduced between the elastic sides of the form, and the same form and jaws may be used for different thicknesses of leather.

By using a filling, *d*, of rubber or other elastic or yielding material, between the flexible sides *b* of the form, the latter has an elastic and flexible quality given to it which it has long been desired to obtain for crimping plates or forms. Such elastic or yielding form enables the crimper to effectually smooth out the wrinkles, and in case of the leather on said form having thin or reduced parts in it, the elasticity of the form, by the use of the yielding packing or filling within it, allows the flexible sides *b* to yield, so that said thin parts are reached and smoothed out clean. This it has been impossible heretofore to do by the ordinary solid form, which, moreover, has required such a large amount of lateral pressure to be applied in smoothing out the work that the leather has not infrequently been ruptured or otherwise seriously injured; nor has a hollow form, as heretofore constructed, overcome the difficulty. Furthermore, by means of this elastic or yielding form, the corners *e* of the boot or shoe front (see dotted lines in Fig. 1) are well drawn out or readily pulled down by the crimping-jaws, owing to the shape which the form takes in yielding, and to the fact of its working thicker as the crimping-jaws pass downward, thereby enabling the crimper to get a longer corner, *e*, with much less labor and trouble than it is possible to obtain with a solid form.

The sides *b* of the form may, if desired, be provided internally with pins or projections to hold the elastic or yielding filling *d* in place.

I claim—

1. The combination of an independent interior packing or filling with the hollow crimping-form having flexible sides or cheeks, essentially as described.

2. An elastic or yielding crimping-form made with flexible sides or cheeks, and an interposed filling of elastic or yielding material, substantially as specified.

JAMES D. BACON.

Witnesses:

HENRY T. BROWN,
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