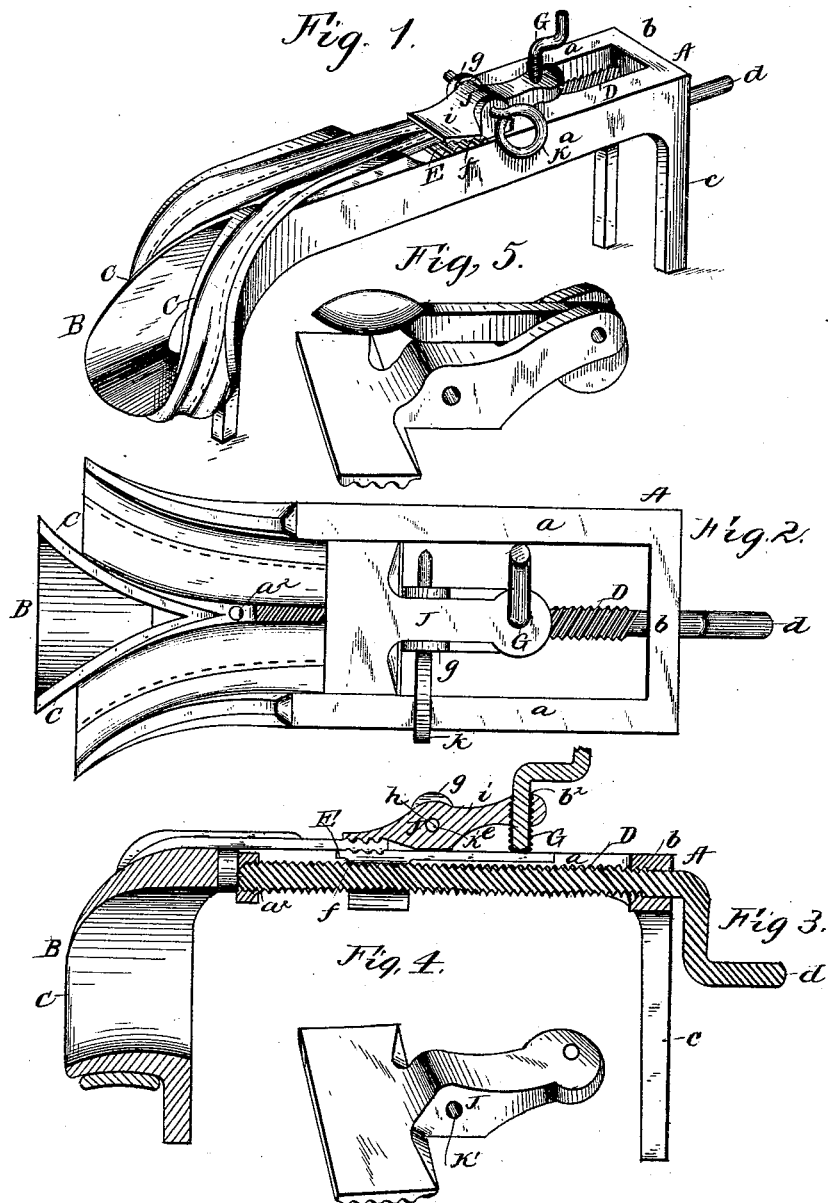


(No Model.)

LA FAYETTE HARTSON.
CRUPPER FORMER AND STRETCHER.

No. 303,372.

Patented Aug. 12, 1884.



WITNESSES
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CRUPPER FORMER AND STRETCHER.

SPECIFICATION forming part of Letters Patent No. 303,372, dated August 12, 1884.

Application filed May 23, 1884. (No model.)

To all whom it may concern:

Be it known that I, LA FAYETTE HARTSON, a citizen of the United States, residing at Wyoming, in the county of Jones and State of Iowa, have invented a new and useful Crupper Former and Stretcher, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to a device for forming cruppers for harness; and it has for its object the production of a device of this character which shall be simple in its construction and effective in its operation, and one which will be capable of producing a crupper which shall possess superior advantages in point of shape or form, and one that will preserve the same.

With these ends in view, the invention consists in the combination, with a forming-block, of a clamp for receiving the ends of the crupper or means for stretching said crupper.

The invention further consists in the improved construction and combinations of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a crupper-former constructed in accordance with my invention. Fig. 2 is a plan view of the same. Fig. 3 is a longitudinal vertical section. Fig. 4 is a perspective view of one of the clamping-plates detached, and Fig. 5 is a modified form of clamping-plate.

In the accompanying drawings, in which like letters refer to corresponding parts in the several figures, A represents a frame or table, which is preferably cast, and consisting of the side rails, *a*, connected at one end by means of a cross-bar, *b*, and supported at said end by means of legs *c*, which are also cast with said sides and cross-bar. At the other end of the table is provided a forming-block, which is cast with the table or frame, said block B, consisting of the down-turned curved sides C, the inner edges of which are turned outwardly to form a flange, and thus prevent the detachment of the crupper when being formed or stretched, said flange decreasing as it nears the upper end of the sides B, and terminating in a point of substantially a V shape.

D represents a feed-screw which has bearing in the upper end of the head-block at one end,

as shown at *a'*, and in the rod or bar *b* at the other end, the end supported by bar *b* passing through the same, and being bent to form a crank or handle, *d*. At the points at which this feed-screw has bearing the same is made smooth, so that it will turn loosely therein and will not move in any direction other than to be turned or revolved. Upon this feed-screw is mounted a clamp, E, the lower section of which has a screw-threaded opening to receive the feed-screw which works therein. Upon the surface of the section *e* of the clamp E is provided a series of corrugations, *f*, while just in rear of said corrugations, and upon the sides of the section *e*, are provided two upwardly-projecting brackets, *g*, having perforations or openings *h*. The upper clamping-plate, *i*, is provided on its under side with a series of corrugations similar to those on the lower plate, and is also provided on its rear side with a lug, J, which has an opening, *k*, said lug, fitting between the brackets *g*, and being removably secured therein by means of a pin, *k'*, passing through the openings of said lug and brackets. Upon the upper clamping-plate is provided a screw-threaded opening, *b'*.

G represents a set-screw for adjusting or tightening the clamping-plates upon the ends of the crupper when in operation, said screw turning in the opening *b'* and bearing on the lower clamping-plate, said set-screw being preferably formed at its end with a crank-handle, as shown.

In Fig. 5 I have shown a modification in which two rearwardly-projecting arms are provided on the lug *j*, between which arms is pivoted at the rear end thereof a cam-lever, *m*, for clamping the two sections together.

In forming cruppers, the same are first wet and doubled in the usual manner, and are then placed upon the forming-block. The clamp being opened, the ends are then placed between the same and held there by means of the set-screw. The feed-screw is then operated by means of the handle, and as it is turned the clamps are drawn rearwardly, thus forming the crupper at the same operation.

By the employment of my improved former and stretcher, a crupper, when once made, will preserve its shape and form, and will not

give or stretch in use, at the same time producing a crupper much neater in appearance than those made by hand.

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

1. In a crupper former and stretcher, the combination, with a frame or table having a forming-block cast integral therewith at one end, and a feed-screw mounted to turn loosely in said frame or table, said feed-screw being provided with an operating-handle, of a clamp consisting of two sections pivotally connected, and a crank-screw for clamping said sections, said crank-screw working in a screw-threaded opening in the upper of said sections, and bearing upon the upper side of the lower section, substantially as set forth.

2. The herein-described crupper former and stretcher, consisting of a frame or table having a forming-block cast integral therewith at one end, a feed-screw working in said frame, a clamp consisting of two sections pivotally

connected, the bottom section being provided with upwardly-projecting perforated brackets, and the upper section having a perforated lug fitting between said brackets and held in place by a rod, said sections being provided on their meeting faces with a series of corrugations, and a set-screw for adjusting or clamping said sections, substantially as set forth.

3. The combination, with a frame or table having a crupper-forming block cast integral therewith at one of its ends, of a feed-screw working in said frame or table, and clamping plates mounted on and actuated by said feed-screw to stretch and form the crupper, substantially as set forth.

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

LA FAYETTE HARTSON.

Witnesses:

J. F. RICHARDS,
J. W. MILNER.