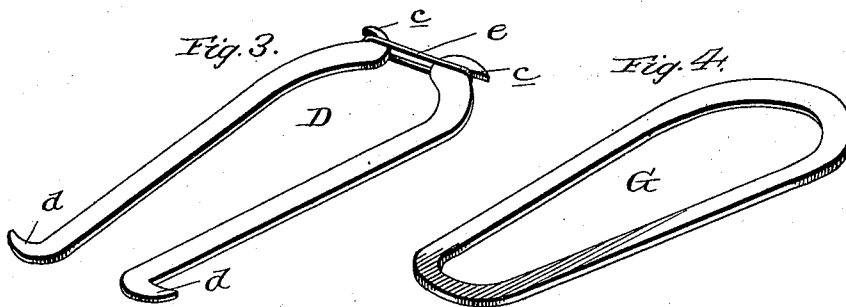
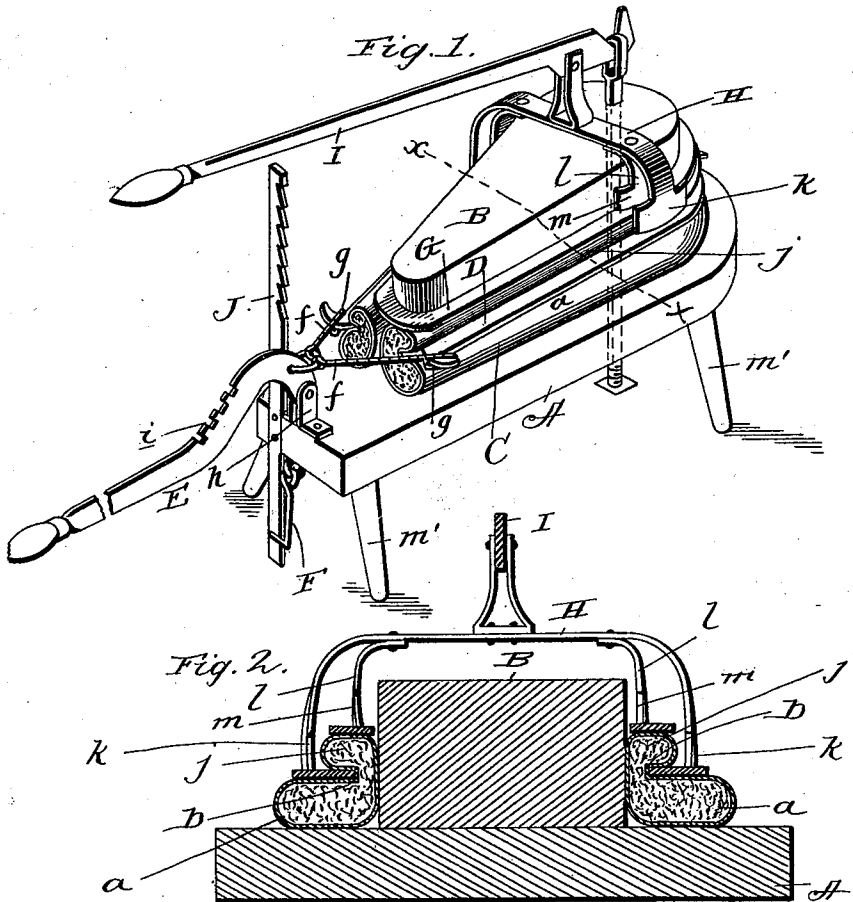


(No Model.)

A. F. DUNAVAN.
APPARATUS FOR SHAPING HORSE COLLARS.

No. 519,381.

Patented May 8, 1894.



Witnesses:
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UNITED STATES PATENT OFFICE.

ALBERT F. DUNAVAN, OF HARVEY, ILLINOIS.

APPARATUS FOR SHAPING HORSE-COLLARS.

SPECIFICATION forming part of Letters Patent No. 519,381, dated May 8, 1894.

Application filed January 22, 1894. Serial No. 497,687. (No model.)

To all whom it may concern:

Be it known that I, ALBERT F. DUNAVAN, a citizen of the United States, residing at Harvey, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Apparatus for Shaping Horse-Collars; 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.

My invention relates to improvements in apparatus for shaping horse collars; and it has for its general object to provide a simple, efficient and easily operated apparatus, through the medium of which a horse collar may be quickly pressed into proper shape.

Other objects and advantages of the invention will appear from the following description and claims when taken in connection with the annexed drawings in which—

Figure 1, is a perspective view of my improved apparatus, with a collar in position to be shaped. Fig. 2, is an enlarged transverse section taken in the plane indicated by the line *x, x*, of Fig. 1. Fig. 3, is a detail perspective view illustrating the pressure plates which serve to shape the body portion of the collar and also serve to form the hame-receiving recess, and: Fig. 4, is a similar view of the plate through the medium of which the reduced portion of the collar is pressed and shaped.

Referring by letter to said drawings:—A, indicates the bed of my improved apparatus which is preferably mounted upon legs as *m'*, and B, indicates the block or former around which the collar C, is shaped as shown. This block or former B, is rigidly connected to the bed in any approved manner and it is preferably made of wood and in the form or approximate form shown, in order that when the collar is pressed against it, said collar will be caused to assume a shape that will conform to the shape of a horse's neck.

D, indicates the pressure plates through the medium of which the body portion *a*, of the collar is pressed and shaped and the hame-receiving recess *b*, is formed. These plates D, are designed to rest upon the body portion *a*, of the collar, and they are curved as shown,

and are provided at their opposite ends with hooks *c, d*; the former of which are designed for the engagement of the connecting link *e*, and the latter for the engagement of the chains *f*, which are provided with loops *g*, to receive the hooks and are designed to connect the plates and their operating lever E. The said lever E, is fulcrumed in short standards *h*, rising from the bed A, adjacent to the front end thereof, and it is preferably curved as shown and provided with a series of notches *i*, for the engagement of the keeper F, which is loosely connected to the bed as shown. By this construction it will be perceived that the lever E, may be depressed in order to draw the plates D, toward the sides of the block, and may be locked in such depressed position so that the plates will form the hame-receiving recess *b*, in the collar.

G, indicates a plate which is designed to surround the block B, and shape the rim *j*, of the collar; and H, indicates the yoke through the medium of which the plates D, and G, are pressed against the body portion and rim-portion respectively of the collar. This yoke H, is provided at its depending ends with shoes as *k*, to bear against the plates D, and it is also provided between the depending ends carrying the shoes *k*, with depending branches *l*, which are provided at their ends with shoes *m*, to bear against the plate G. Thus it will be seen that the plates D, G, may be pressed downwardly at one and the same time, and that the pressure upon both plates is always the same.

I, indicates the lever for pressing the yoke H, upon the plates D, G. This lever I, is preferably connected with the block B, in the detachable manner illustrated, and it is also connected at an intermediate point of its length with the yoke, whereby it will be seen that when its power end is depressed, the yoke will be caused to exert a pressure upon the said plates for the purpose set forth.

In order to lock the lever I—in its depressed position and thereby hold the plates D, G, under pressure against the portions *a, j*, of the collar, I have provided the vertical rack bar J. This bar J—is preferably connected to and rises from the floor past the front end of the block, as shown; and the lever I, may be

readily placed in engagement with any of its teeth according to the pressure under which the plates are to be held.

In the practical operation of my apparatus, the collar, after it has been properly stuffed, is placed around the block or former B, as shown in Fig. 1. The plates D, and G, are then placed in position and properly adjusted, and the plates D, are drawn in toward the sides of the block and locked in such position to form the hame-receiving recess, as before described. The yoke H, is then placed upon the plates D, G, and the power end of the lever I, is depressed and locked in the rack J, so as to hold the plates, under pressure, against the portions *a, j*, of the collar; after which the collar is left in the apparatus for a sufficient time in order to enable it to retain the shape into which it is pressed.

It will be seen from the foregoing description taken in conjunction with the drawings that my improved apparatus is very simple and practical; that it serves to thoroughly shape a collar; that is easily operated and that it is adapted to shape a collar in a short space of time all of which are important advantages.

I prefer in practice to connect the lever I, to the block or former and the bed through the medium of the bolt *n'*, which extends through the former and bed and is screwed into a nut as *p*, fixedly connected to the floor—but I do not desire to be understood as confining myself to this manner of connecting the lever as it might be connected in any suitable manner.

I have endeavored in the foregoing description to impart a full and clear understanding of my approved apparatus by specifically describing the construction and relative arrangement of the several elements thereof, but I do not desire to be understood as confining myself to such specific construction and arrangement as such changes or modifications may be made in practice as fairly fall within the scope of my invention.

Having described my invention, what I claim is—

1. In an apparatus for shaping horse collars, the combination with a bed and a former block arranged thereon; of pressure plates D, disposed on opposite sides of the former block, a pressure plate G, and means for exerting pressure on the plates D, and G, substantially as and for the purpose specified.

2. In an apparatus for shaping horse collars, the combination with a bed and a former

block arranged thereon; of pressure plates D, disposed on opposite sides of the former block, a pressure plate G, a yoke engaging the plates D, and G, and a suitable means for exerting pressure on the yoke, substantially as specified.

3. In an apparatus for shaping horse collars, the combination with a bed and a former block arranged thereon; of pressure plates D, disposed on opposite sides of the former block, a pressure plate G, surrounding the former block and disposed in a plane above the plates D, means for moving the plates D, toward the former so as to form a hame-receiving recess in the collar, and means for exerting a downward pressure on the plates D, and G, all substantially as and for the purpose specified.

4. In an apparatus for shaping horse collars the combination with a bed, a former block arranged on said bed, plates D, disposed on opposite sides of the former block and a plate G, surrounding the former block and disposed in a plane above the plates D; of a yoke straddling the former block and having depending portions engaging the plates D, and G, a lever fulcrumed on the former block and connected to the yoke, and a rack bar connected to the bed and adapted to hold the said lever in its depressed position, substantially as and for the purpose set forth.

5. The herein described apparatus for shaping horse collars comprising the bed, the former block arranged on the bed, the plates D, disposed on opposite sides of the former block and having their rear ends loosely connected, a hand lever fulcrumed on the bed, chains connecting said lever and the forward end of the plates D, a keeper connected to the bed and adapted to hold the lever in its depressed position, a plate G, surrounding the former block and disposed in a plane above the plates D, a yoke straddling the former block and having depending portions bearing on the plates D, G, a lever fulcrumed on the former block and connected to the yoke, and a rack bar connected to the bed and adapted to hold the said lever in its depressed position, all substantially as and for the purpose set forth.

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

ALBERT F. DUNAVAN.

Witnesses:

SAML. DANIELS,
GEO. C. UTLEY.