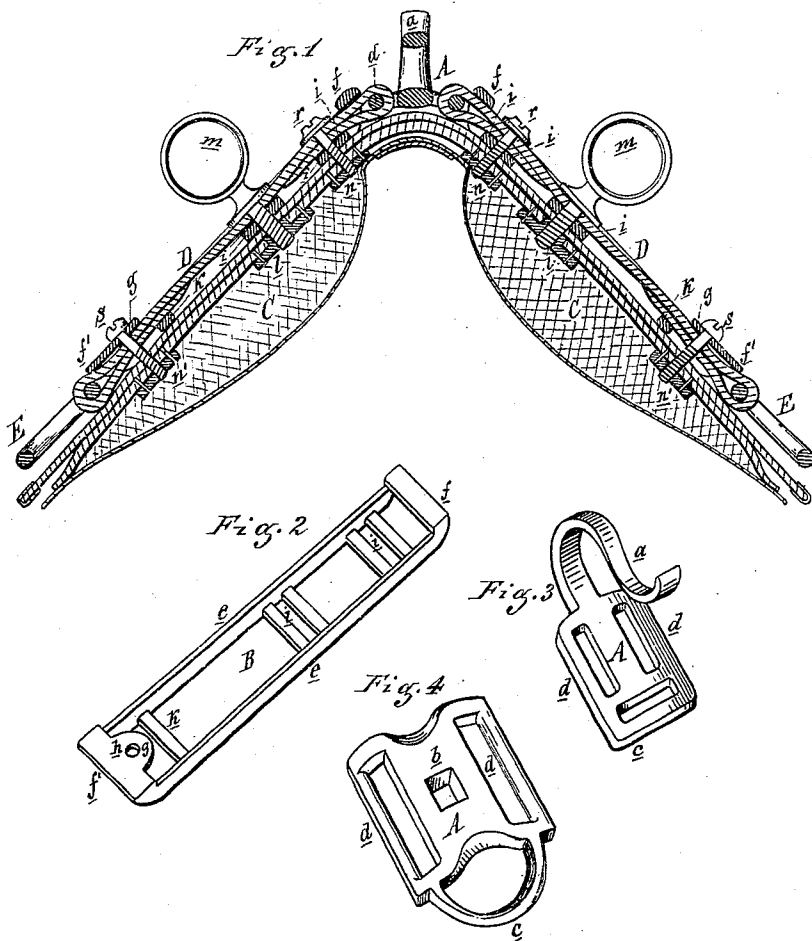


(No Model.)

W. O. MILLER.
Harness Tree.

No. 242,552.

Patented June 7, 1881.



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UNITED STATES PATENT OFFICE.

WILLIAM O. MILLER, OF DETROIT, MICHIGAN.

HARNESS-TREE.

SPECIFICATION forming part of Letters Patent No. 242,552, dated June 7, 1881.

Application filed August 12, 1880. (No model.)

To all whom it may concern :

Be it known that I, WILLIAM O. MILLER, of Detroit, in the county of Wayne and State of Michigan, have invented an Improvement in Harness-Trees, of which the following is a specification.

The nature of this invention relates to certain new and useful improvements in the construction of harness-pads which are flexible in contradistinction to those which are provided with a rigid tree.

The invention consists in the peculiar construction of the parts, and in their combinations, as more fully hereinafter described.

Figure 1 is a vertical central longitudinal section through the center of the complete pad. Fig. 2 is a perspective of one of my metallic pad-plates. Fig. 3 is a detached perspective view of the check-hook and plate. Fig. 4 is a similar view of a modification when it is desired to use a detachable hook or post with which to engage the check-rein.

In the accompanying drawings, which form a part of this specification, A represents a rein-hook plate, with a hook, *a*, cast with or rigidly secured thereto, or a hole, *b*, to admit securing thereto a detachable hook or post, and also provided with a loop, *c*, through which the crupper-strap passes. These plates are cast with a loop, *d*, on each side of the body.

B is a metallic pad-plate, shown in Fig. 2, consisting of two vertical sides, *e*, two end bars, *f f'*, on top of the sides, (the latter being provided with an eye, *g*, or ear, through which there is a hole, *h*,) and with two pairs of cross-bars, *i*, and a single bar, *k*, at the bottom.

C is a harness-pad, of the usual construction, as attached to a rigid metallic tree, and provided with burrs *l*, into which to screw the terrets *m*. They are also provided with other burrs, *n n'*, into which to screw the screws *r s*, which secure the body of the pad to the flexible tree, which I will describe.

Two leather straps, D, (one for each side of the tree,) are employed, with two pad-plates, B.

The inner ends of these straps are passed through the loops *d* of the hook-plate A and folded under and back upon themselves, passing under the bars *f* of the two pad-plates. The other ends of the straps (the bodies thereof resting upon the bars *i i* and *k*) are passed through the rings or loops E and folded under and back upon themselves underneath the bars *f'*. Screws *r* are then passed through the folded inner ends, downward between the upper pairs of bars *i i* into the body of the pad C, and engaged with the burrs *n*. Then the screws *s* are inserted through the holes *h* in the ears *g* of the bars *f'*, through the folded outer ends of the straps, and engaged with the burrs *n'* in the body of the pad. The terrets *m* are then passed through the straps, between the lower pairs of bars *i i*, and engaged with the burrs *l* in the body of the pad. The shaft or belly band of the harness is secured, in the usual way, to the rings or loops E.

I am aware that a harness-pad consisting of the check-hook plate A, having side loops, *d*, pad-plate B, and straps D passing through said loops and returned over the bars *i*, in combination with the body C of the pad, secured thereto by the screws *s* passing through hole *h* in the pad-plate, and screws *r* passing through the returned end of the strap D and engaging with the burrs *n n'*, has heretofore been employed, and I therefore lay no claim to such invention.

What I claim as my invention is—

1. In a flexible harness-tree, the pad-plate B, provided with the bars *f f'*, *i*, and *k*, substantially as described.

2. The combination, with the pad-plate B, provided with the bars *f f'*, *i*, and *k*, of the check-hook plate A, provided with side loops, *d*, and straps D, substantially as described.

WM. O. MILLER.

Witnesses:

H. S. SPRAGUE,
THEO. S. DAY.