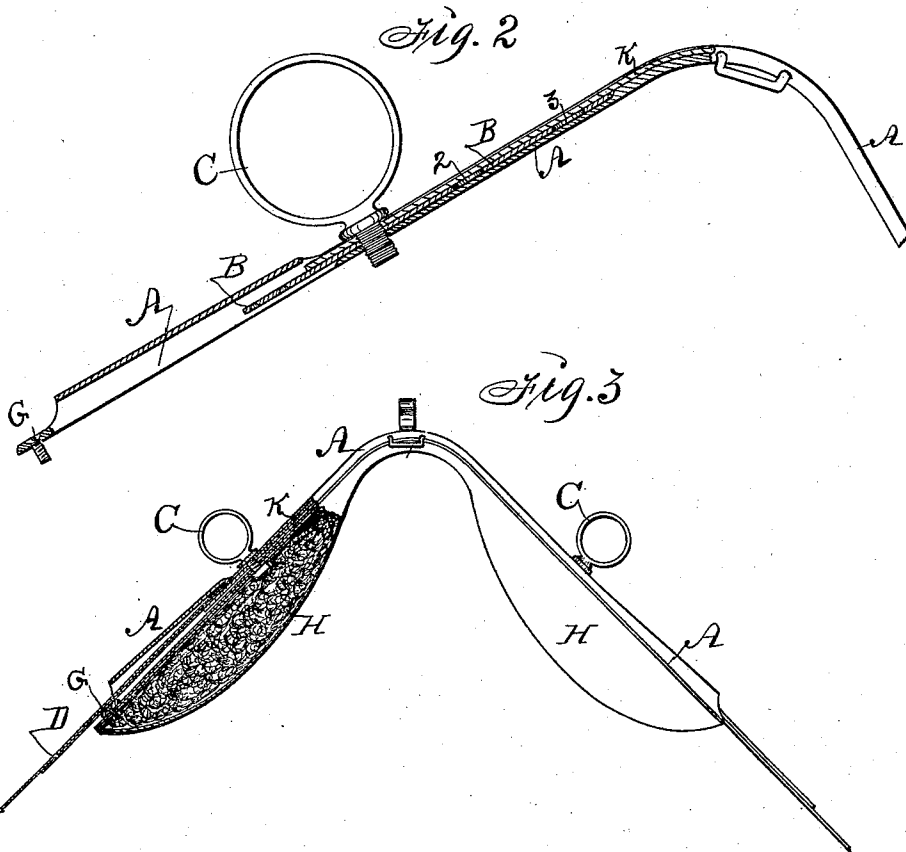
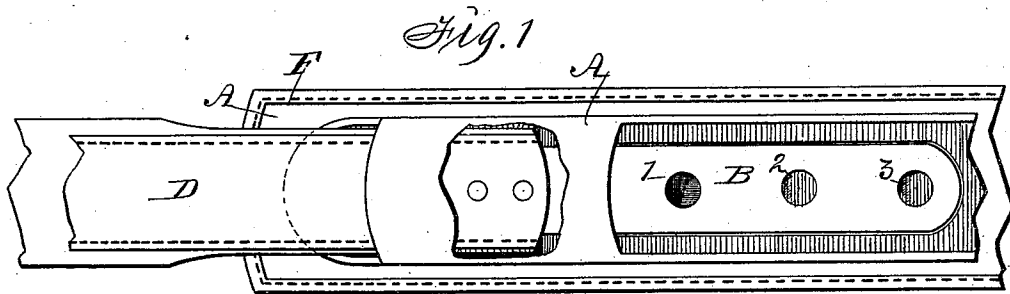


(No Model.)

A. B. ARNOLD.
HARNESS SADDLE.

No. 478,535.

Patented July 5, 1892.



Witnesses:

W. F. Smith:
R. H. Orwig.

Inventor:

Alonzo B. Arnold,
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UNITED STATES PATENT OFFICE.

ALONZO B. ARNOLD, OF MARSHALLTOWN, IOWA.

HARNESS-SADDLE.

SPECIFICATION forming part of Letters Patent No. 478,535, dated July 5, 1892.

Application filed March 10, 1890. Renewed January 16, 1892. Serial No. 413,222. (No model.)

To all whom it may concern:

Be it known that I, ALONZO B. ARNOLD, a citizen of the United States of America, and a resident of Marshalltown, in the county of Marshall and State of Iowa, have invented a new and useful Improvement in Harness-Saddles, of which the following is a specification.

My object is to provide a harness-saddle that can be readily fitted to horses of different sizes; and my invention consists in the construction and combination of a pad-tree, detachable and interchangeable pads, and detachable and interchangeable girth-straps fixed to perforated metal straps, as herein-after set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a top view showing the end of a pad and pad-tree, a metal strap, and a detachable girth-strap combined. Fig. 2 is a side view of a section of the pad-tree and the perforated metal strap combined therewith by means of a terret. Fig. 3 is a side view of a finished saddle from which parts are broken away at one end to show the adjustable metal strap to which the girth is fixed.

A represents a metal saddle-tree of common form, excepting that it has perforated curved cross-pieces at its ends adapted to be detachably clamped fast to the pad and housing by means of set-screws.

B are flat metal straps that have perforations 1 2 3, corresponding in size with the perforations in the metal saddle-tree, adapted to receive the screw-threaded ends of the terrets.

D are girth-straps riveted fast to the lower ends of the perforated metal straps B in such a manner that the free ends will project upward to overlap the perforated parts of the pad-tree, as clearly shown in Fig. 1, and also in such a manner that they can readily be adjusted, lowered, or raised, as required, in fitting a saddle to an animal.

F represents a leather housing that is placed against the under side of the metal pad-tree and detachably connected therewith by passing set-screws G through the perforated cross-pieces at the ends of the saddle-tree and through the housing into nuts or screw-seats fixed in the pad.

H is a pad thus detachably fixed to the lower ends of the tree and the housing.

The terrets C are extended through perforations in the leather K, fitted on top of the flanged portion of the metal tree through the perforated metal straps B, perforations in the housing F, and into nuts fixed in the pad in a common way, as required, to clamp all the parts together. Pads of different sizes can be thus readily attached to the pad-tree, and the girth-straps can be readily adjusted in the covered ends of the pad-tree to correspond with the size of the pad, as required, to fit a pad to a horse; and pads and girth-straps can be interchangeably used with pad-trees to facilitate the fitting of different harnesses to different horses.

I am aware metal pad-trees have had covered openings in their ends to admit the ends of girths and perforations for screws and terrets; but my manner of fixing a perforated metal strap to the end of a leather girth and combining it with a pad and pad-tree by means of a terret to be detached and adjusted in the manner set forth is novel and greatly advantageous in fitting a harness-saddle to a horse.

I claim as my invention—

1. In a harness-saddle, the combination of a metallic tree having suitable terret-holes therein and an offset portion below said holes adapted to receive the upper end of the girth-strap and form a covering for the same, and a girth-strap having a metallic end piece attached thereto, the said end piece having holes therein adapted to coincide with those in the tree, whereby the girth is connected with and adjusted on the tree by the terret, substantially as described.

2. In a harness-saddle, the combination of a tree having suitable terret-holes therein, perforated cross-bars at the lower ends, a pad with holes in its housing coinciding with those in the tree and fixed nuts thereunder, suitable terrets and connecting-screws, and girth-straps having metallic end pieces provided with holes to receive the terrets, whereby pad and girths are made detachable and adjustable, as set forth.

ALONZO B. ARNOLD.

Witnesses:

GEO. H. SHETLER,
BEN G. COLLINS.