

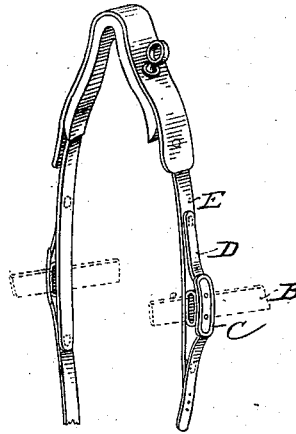
(No Model.)

W. L. ALBERT.  
TRACE LOOP ATTACHMENT.

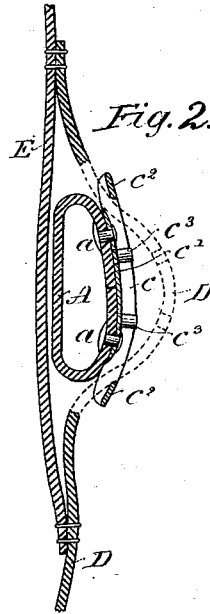
No. 260,443.

Patented July 4, 1882.

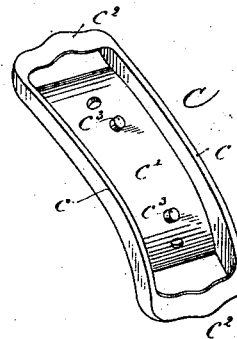
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES

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# UNITED STATES PATENT OFFICE.

WILLIAM L. ALBERT, OF RED OAK, ASSIGNOR OF ONE-HALF TO LOUIS F. RACINE, OF OTTUMWA, IOWA.

## TRACE-LOOP ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 260,443, dated July 4, 1882.

Application filed April 21, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM L. ALBERT, of Red Oak, in the county of Montgomery and State of Iowa, have invented a new and useful Improvement in Trace-Loop Attachments, which improvement is fully set forth in the following specification.

This invention has reference to trace-loop attachments for holding in place the trace of a slip-trace double harness; and its object is to produce a trace-loop attachment simple in construction, readily adjustable to different heights to fit different-sized horses, and generally better adapted to the purpose intended than those heretofore known and used. In the present invention the trace-loop, which is formed of leather doubled on itself, is riveted to the under side of a metal casting something in the nature of a buckle-frame, which is slipped in place over the pad-loop, and is capable of being adjusted to different heights thereon. The casting or frame has side flanges which come up about flush with the strap forming the trace-loop, and these flanges connect at each end of the frame by cross-strips, forming loops through which the strap passes. These cross-pieces and the side flanges keep the frame from slipping off the strap, and it is kept at the desired height thereon by one or more pins or posts projecting from the base of the frame or casting and passing through holes in the pad-loop. The side flanges, moreover, protect the sides of the strap and give the article a neat finish. By having the pad-loop perforated with a number of holes at suitable intervals the trace-loop and its attaching device can be readily adjusted to different heights.

Referring to the accompanying drawings, which form a part of this specification, Figure 1 is a perspective view of a portion of a harness having the improved trace-loop and attachment applied thereto. Fig. 2 is a vertical section of the attachment, and Fig. 3 a perspective of the metal casting or frame detached.

The loop or support A for the trace B is made of leather doubled on itself, with its ends brought together and fastened by rivets *a* or otherwise to the metal attaching device or frame C, the whole being supported by the

strap D, forming the pad-loop, and attached to the saddle-strap or pad-skirt E.

The attaching device or frame C is a metal casting slightly arched to adapt itself to the shape of the pad-loop or strap D. At its sides are flanges *c*, about equal in height to the thickness of the strap D. The flanges *c*, which project at each end beyond the arched base or bottom plate, *c'*, of the device, are connected at their upper edges by flat cross-pieces *c<sup>2</sup>*, the upper surfaces of which are flush with the top of the flanges, and which form at each end of the device a loop or space, through which the strap D passes.

One or more pins or posts, *c<sup>3</sup>*, project from the bottom of the device and pass through holes punched in the pad-loop D. When in place the casing fits snugly on the pad-loop, the flanges *c* protecting the sides of the strap and the posts *c<sup>3</sup>* keeping the attachment in place. The cross-pieces *c<sup>2</sup>* lie flat upon the pad-loop, the latter passing between them and the bottom or base plate, *c'*. The strap D has holes at suitable intervals, so that the trace loop or support A may be adjusted to different heights. To enable this to be readily effected the bottom *c'* of the casting or frame is not continued under the entire length of the device, but is cut away, as best seen in Fig. 3, so as to leave a wider space than the thickness of the strap D. This space affords sufficient play to the pad-loop or strap D to enable it to be bent over the trace-loop A nearly to a right angle with the casting C. By bending strap D to this position, as in Fig. 2, and pushing on it, the strap slips very easily out of engagement with the pins or posts *c<sup>3</sup>*, and the casting C, with the trace-loop A, can be slipped up or down on strap D, so as to adjust it either higher or lower.

The construction of the pad-loop A of leather doubled, as shown, gives it a degree of elasticity and springiness which is entirely wanting in trace-loops made of metal, as generally constructed heretofore.

Having now fully described my said invention and the manner of carrying the same into effect, what I claim is—

1. The combination of the arched base-plate provided on its upper side with arched flanges

projecting beyond the base-plate and connected at their ends by cross-pieces, and a leather trace-loop riveted to the under side of said plate, substantially as described.

5 2. The combination of the pad-loop, metal frame comprising an arched base and side flanges, the latter connected by cross-pieces at their ends, and a leather trace-loop riveted to the under side of said frame; said frame being adjustable on said pad-loop, substantially as described.

10 3. The metal frame or casting comprising an arched base-plate provided with arched side flanges on the convex side of said base-plate, 15 and projecting beyond it at both ends, pins or posts projecting from said base, and cross-pieces uniting the side flanges at their ex-

tremities, and having their upper surfaces flush with the tops of said side flanges, substantially as described. 20

4. A harness attachment comprising, in combination, the arched base-plate, the leather trace-loop riveted thereto, the pins projecting from the convex side of the base-plate, and the cross-pieces connecting the side flanges at their 25 ends, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WM. L. ALBERT.

Witnesses:

JOHN V. SHATTUCK,

J. F. STRATTON.