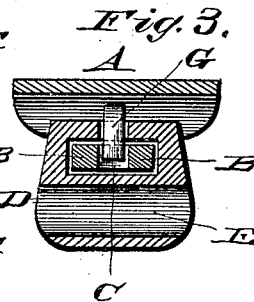
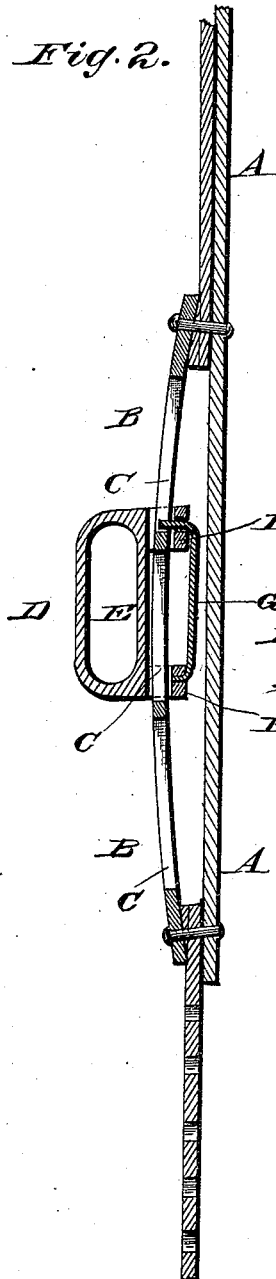
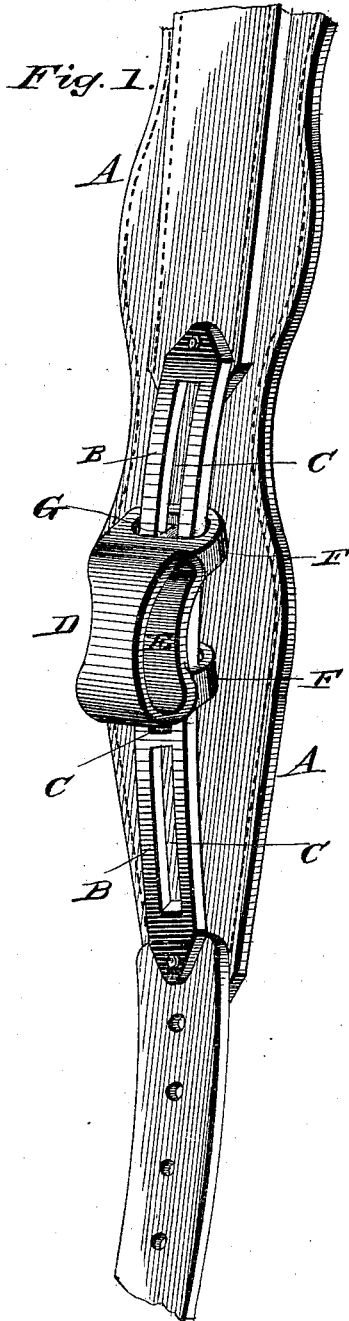


(No Model.)

M. E. LASHER.
TRACE SUPPORTER FOR HARNESS.

No. 304,943.

Patented Sept. 9, 1884.



WITNESSES

Phil C. Dieterich
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UNITED STATES PATENT OFFICE.

MORGAN E. LASHER, OF CHAMPAIGN, ILLINOIS.

TRACE-SUPPORTER FOR HARNESS.

SPECIFICATION forming part of Letters Patent No. 304,943, dated September 9, 1884.

Application filed February 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, MORGAN E. LASHER, of Champaign, in the county of Champaign and State of Illinois, have invented certain new and useful Improvements in Trace-Supporters for Slip-Tug Harness; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of the specification.

This invention relates to trace-supporters for harness; and it has for its object to provide a device which shall be simple and inexpensive, and which shall be capable of a vertically-sliding movement, so that the trace may be adjusted to horses of various heights.

My invention further has for its object to prevent undue wear upon the traces, thus preventing breakage, and also to prevent the traces from chafing and galling the horse.

To these ends my invention consists in the improved construction and arrangements of parts, which will be hereinafter fully described and claimed.

In the drawings, Figure 1 is a perspective view. Fig. 2 is a vertical sectional view, and Fig. 3 is a horizontal cross-section.

The same letters refer to the same parts in all the figures.

In the drawings hereto annexed, A designates the lower part of a pad-skirt of the harness.

B designates a strap, the upper end of which is riveted or otherwise suitably secured to the layer and skirt, and the lower end of which is likewise secured by a rivet passing through the skirt and the billet. The strap B, which is made of metal, preferably malleable iron, is provided with two or more vertical slots, C C, arranged one above the other, as shown.

D is a slide, arranged to move vertically upon the strap B, and provided on its front side with a loop, E, for the reception of the trace, said loop being constructed with smooth

sides, so as to prevent all possibility of wear or injury to the trace. The slide D is mounted upon the strap B by means of a pair of cross-bars, F F, the under sides of which are connected by a spring-catch, G, one end of which extends, as shown, through the cross-bar F and into one of the slots C, thereby limiting the vertical movement of the slide to the length of said slot.

In operation, the trace will pass through the loop E of the slide D, and it will thus be permitted to move or swing vertically within certain limits, which may be determined by adjusting the slide to move over any one of the slots C.

I claim and desire to secure by Letters Patent of the United States—

1. A trace-supporter consisting of a sliding loop and rigid looped guide-bars applied to the strap, all constructed and adapted to operate substantially as described.

2. In a trace-supporter for harness, the combination, with a metallic strap attached to the pad-skirt, and provided with a series of vertical slots arranged one above the other, of a slide fitted to move upon the said strap, and having a loop for the reception of the trace, and means for confining the movement of the slide to the extent of any one of the vertical slots, substantially as set forth.

3. The combination, with a metallic strap attached to the pad-skirt of a harness, and provided with vertical slots arranged one above the other, of a slide equipped with a loop upon its front side, and having upon its rear side a pair of cross-bars or guides, connected by a spring-catch, one end of which may be caused to project into any one of the vertical slots, as and for the purpose set forth.

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

MORGAN E. LASHER.

Witnesses:

J. S. LOTHROP,

HENRY M. BEARDSLEY,