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1,492,669

P. BOSTROM

HARNESS TRACE SUPPORT AND ASSEMBLY

Filed March 2, 1923

Fig. 1.

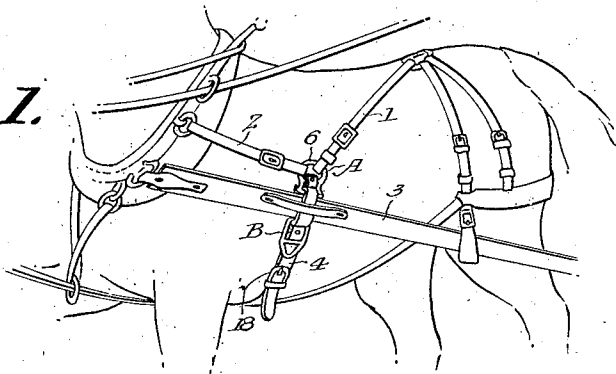


Fig. 2.

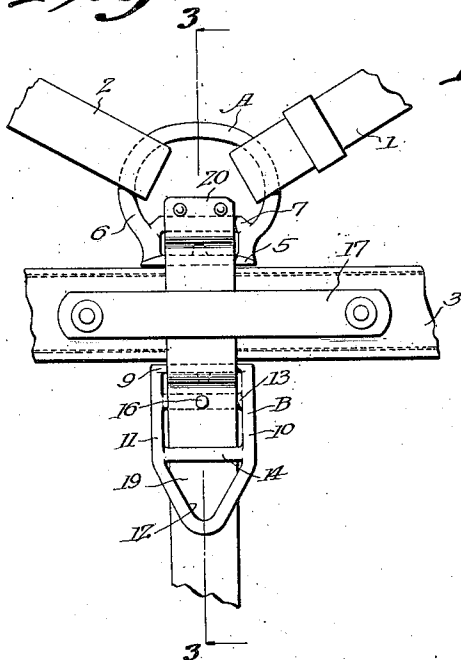


Fig. 3. Fig. 4.

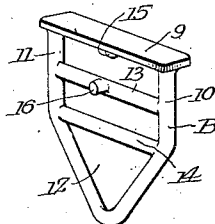
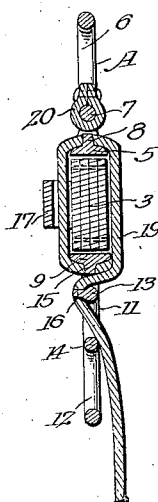
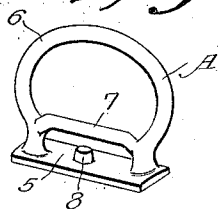


Fig. 5.



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UNITED STATES PATENT OFFICE.

PHILIP BOSTROM, OF GOODING, IDAHO.

HARNESS TRACE SUPPORT AND ASSEMBLY.

Application filed March 2, 1923. Serial No. 622,334.

To all whom it may concern:

Be it known that I, PHILIP BOSTROM, a citizen of the United States, residing at Gooding, in the county of Gooding and State of Idaho, have invented certain new and useful Improvements in Harness Trace Supports and Assemblies, of which the following is a specification.

My present invention relates to a harness trace support and assembly, and particularly to a structure to be embodied in a harness in conjunction with a back band or back straps and the belly-band billet of a truck or work harness to permit ready assembling of the parts and to prevent wearing or chafing of the traces and supporting parts.

The main object of this invention is to provide a trace support and assembly of the character described, which is readily assembled and adjusted and which permits the traces to work freely through the supporting loops, thus preventing undue wear and tear on the traces and associated parts.

A further object is to so construct the parts that the trace loop is formed and adjusted, and the belly-band and back pad or back straps are connected without the necessity of stitching or riveting the parts or the various straps.

Still another object resides in providing a buckle and loop structure which will accomplish the objects and purposes as set forth in my co-pending applications No. 584,467 and No. 584,468, and which can be simply and inexpensively manufactured and put into use.

With the above and other objects in view, my invention embodies novel features of construction and combinations of parts which will now be set forth in connection with the drawings.

In the drawing:

Figure 1 is a perspective illustrating the use of a harness embodying my present invention.

Fig. 2 is an enlarged view in elevation to better show the buckle and loop combination.

Fig. 3 is a vertical sectional view on the line 3—3 of Fig. 2.

Fig. 4 is a perspective view of the buckle.

Fig. 5 is a view in perspective to better show the construction of the supporting loop.

While, in the drawing, I have shown this invention as applied in conjunction with a

harness structure using back straps, it will be appreciated that the parts may be embodied with the same facility and effectiveness in conjunction with a back pad or other type and style of work harness.

The turn-back strap 1 and the lead-up strap 2 are adapted to support the traces 3 and the belly-band 4, and the structure of my invention is applied to and associated with this standard harness construction.

The supporting loop A, as best shown in Fig. 5, is made with a spreader bar 5 adapted to be disposed adjacent the upper edge of the trace, and a ring 6 is disposed as a strap loop on the upper side of this bar. A cross-bar 7 is provided within the ring parallel with and adjacent to the spreader bar 5, and it is preferable that a tongue 8 be provided on the upper side of the bar 5 projecting toward the cross-bar 7.

The buckle B has a spreader bar 9 similar to the bar 5, and side portions 10 and 11 extend downwardly at the ends of the bar 9 at right angles thereto. The side portions are parallel, and at their lower ends are merged into a triangular snap loop 12. A cross-bar 13 is provided between the side portions at the top of the snap loop and a second cross-bar 14 is disposed parallel with and between this bar and the spreader bar. Spreader bar 9 has a tongue 15 on its lower side projecting toward the bar 14, and this latter bar has a strap tongue 16 projecting forwardly on its middle portion.

As shown, the trace 3 has a guide strap 17 riveted thereon and the belly-band 4 has a buckle 18 on its end, however the belly-band might have a snap-hook at this free end. The straps 1 and 2 have buckles thereon adapted to hold their ends when looped back.

In assembling the loop A and buckle B for use, a belly-band billet 19 having tongue receiving openings punched or otherwise formed therethrough is fitted with one end caught over the tongue 15 beneath bar 9, and is then extended between the trace 3 and guide strap. The billet is then turned over the spreader bar 5 and tongue 8 is inserted in one of the openings, the billet being then turned down along the inner side of the trace and inserted between the bars 9 and 14 of buckle B and turned back through between bars 14 and 13. Tongue 16 is caught in one of the openings in the strap and the free end is extended down ad-

jacent the snap loop. This end of the strap can be held in the buckle 18, or the belly-band snap can be caught in the loop 12. A strap 20 is riveted around bar 7 as a filler to retain the billet against slipping from the tongue 8, this tongue serving to hold the loop in proper position on the upper edge of the trace. Buckle B is retained in proper position by the tongues, and the spreader bars are thus held properly placed at all times and under all working conditions.

The turn-back strap 1 and lead-up strap 2 are looped through the ring 6 of loop A, and this loop is thus held in proper position to support and carry the trace in the desired relation. Spreader bars 5 and 9 guard against wear on the top and bottom edges of the trace and are preferably of sufficient width to keep the portions of the billet forming the sides of the trace loop from contact with the sides of the trace.

While I have herein shown and described only one specific embodiment and use of my present invention, it will be appreciated that changes and modification can be resorted to in the form and arrangement of the parts without departing from the spirit and scope of my invention.

I claim:

1. A harness trace support and assembly comprising a belly-band billet strap folded over to form a trace-receiving loop, a supporting loop having a spreader bar fitted in

the bight of the looped strap and provided with a loop for attachment on a portion of a harness, a buckle having a spreader bar received between the ends of the billet strap and provided with cross-bars engaging with the strap to retain the same in place within the buckle, tongues on the spreader bar and one cross-bar of the buckle to secure the ends of the strap, and a tongue on the bar of the supporting loop to retain this loop in place with respect to the buckle and trace.

2. A harness trace support and assembly comprising a belly-band billet strap forming a trace loop, a buckle in which the ends of said strap are fitted provided with a spreader bar to bear against the lower edge of a trace fitted through the loop and spread the sides of the loop from contact with the sides of the trace, a supporting loop having a spreader bar fitted in the bight of the strap loop and provided with a ring for attachment to a portion of a harness, a tongue on the spreader bar of the loop to engage with the strap and hold the bar adjacent the top edge of the trace, cross-bars provided on the buckle to confine the ends of the strap, tongues on the buckle to hold the strap against slipping therein, and means on the supporting loop of the buckle to retain the strap engaged by the tongue thereof.

In testimony whereof I affix my signature.
PHILIP BOSTROM.