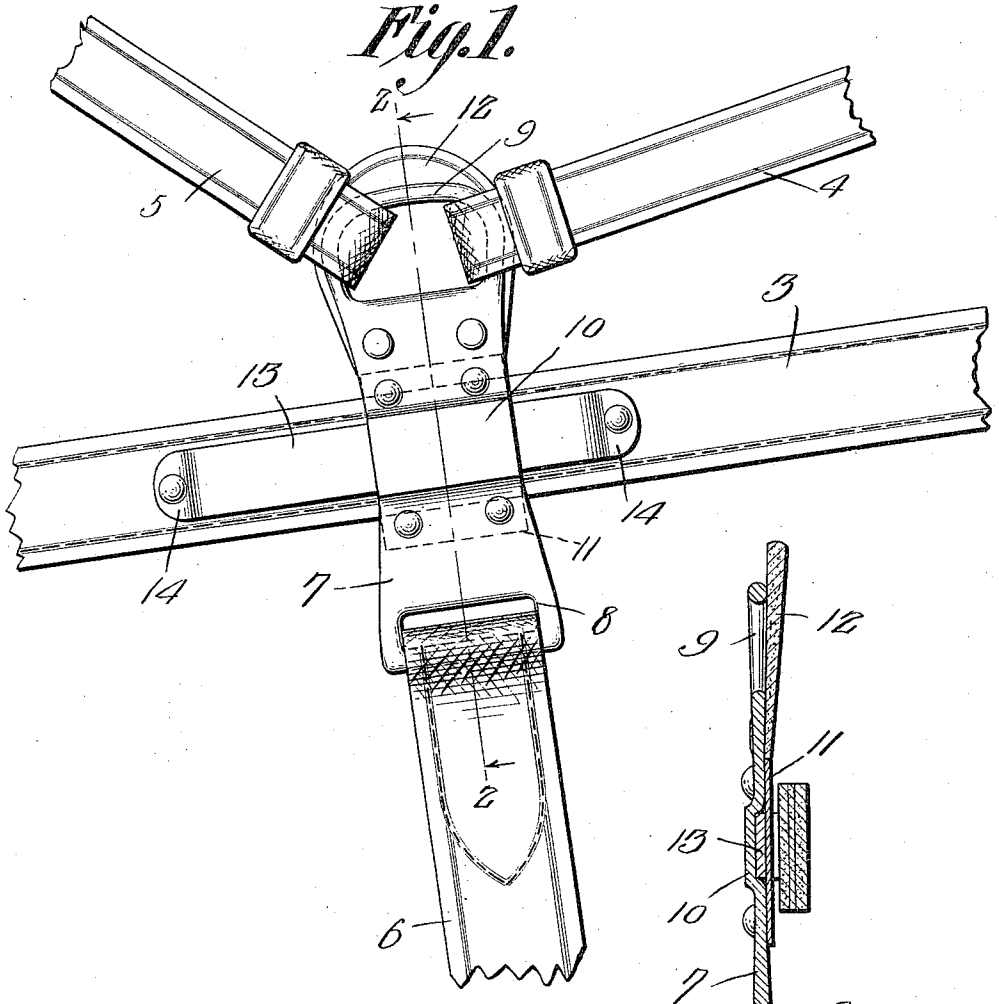
E. F. MORRELL.

TRACE CARRIER.

APPLICATION FILED JAN. 7, 1913.

1,068,520. Patented July 29, 1913.

Fig. 1.



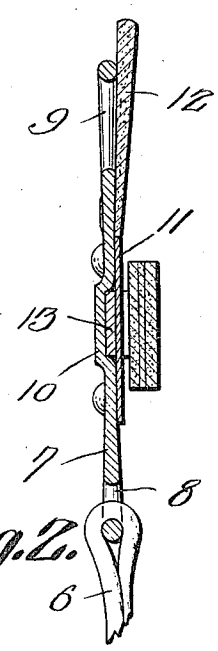


Fig. 2.

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EARNEST F. MORRELL, OF CHARLOTTE, MICHIGAN.

TRACE-CARRIER.

1,068,520. Specification of Letters Patent. Patented July 29, 1913.

Application filed January 7, 1913. Serial No. 740,691.

To all whom it may concern:

Be it known that I, EARNEST F. MORRELL, a citizen of the United States, residing at Charlotte, in the county of Eaton and State of Michigan, have invented a new and useful Trace-Carrier, of which the following is a specification.

The present invention appertains to harnesses, and particularly to trace carriers.

It is the object of the present invention to provide a device of the character indicated attachable to the trace and to the remainder of the harness and constructed and operated in such a manner as to relieve the trace of wear, as in the case when a trace works through the usual belly band billet, the present device also being designed to relieve the parts of the harness other than the trace, of any strain due to the draft exerted on the trace or traces.

To the above and other ends, the present invention resides essentially in a device of the class indicated embodying an elongated member attachable at its ends to a trace so as to be spaced from the trace, and a second member slidably engaging the said member and designed for the attachment of certain straps at its upper and lower ends.

The invention also resides in other details of construction as will hereinafter more fully appear, it being understood, however, that this device is susceptible of alterations and deviations in its minor details within the scope of what is claimed without departing from the spirit of the invention or sacrificing from the benefits derived.

The preferred embodiment of the invention has been illustrated in the accompanying drawing, wherein:—

Figure 1 is a fragmental elevation of a harness embodying the present device. Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Referring specifically to the drawing, the trace has been designated by the numeral 3, it being understood that the trace may be of any construction, or that the present device is applicable to various harnesses. The harness also includes the strap 4 which extends from the hame, the strap 5 which extends from the hip, or from the crupper strap, and the belly strap 6. The said parts are common in harnesses, and need no further amplification.

In carrying out the present invention, there has been provided an elongated plate 7 of suitable metal or other material, the said plate being disposed vertically or upright and having a transverse slot 8 in its lower end for the attachment of the belly band 6 and having an opening 9 in its upper end providing means for the attachment of the straps 4 and 5. Thus, the plate 7 is attached to the harness and forms a portion thereof, or a coupling between the belly strap and the straps 4 and 5. This plate 7 is provided with an intermediate transverse outstruck channel 10, and a supplemental or auxiliary plate 11 of comparatively thin material is riveted to the inner face of the plate 7 to pass over the channel 10. A flap 12 is also riveted to the plate 7 above the plate 11 and below the opening 9, the said flap lying below or inwardly of the opening so that the ends of the straps 4 and 5 may lie thereon to protect the animal from being chafed.

A metallic bar 13 is adapted to be attached to the trace, the said bar having its ends offset as designated by the numeral 14 so that the offset ends may be riveted to the trace for spacing the bar outwardly from the trace. The horizontal bar 13 is received by the channel 10, the supplemental plate 11 serving to retain the bar slidably within the channel. Thus, the trace is free to reciprocate in use, without becoming worn or weakening, the bar 13 in being arched or spaced from the trace serving to hold the plate 7 out of contact with the trace for eliminating wear. The trace being permitted to reciprocate relative to the plate 7, also relieves the other parts of the harness from any strain due to the draft exerted on the trace, it being noted that the bar 13 is constrained against shifting vertically relative to the plate 7, so that the trace will be properly carried.

The present device is a simple and inexpensive one, and may be readily applied to various harnesses in a convenient and efficient manner so as to effect the result above described. The device is also durable and is neat and attractive in appearance so that it provides a desirable contrivance for the purposes for which it is designed.

Having thus described the invention, what is claimed as new is:—

1. A trace carrier embodying a vertical member having its ends constructed and arranged for the attachment of upper and lower straps, and a horizontal member engaged with the said vertical member to slide horizontally thereon and having its ends off-

set and attached to the trace thus spacing the said vertical member from said trace, the last mentioned member being constrained from shifting vertically relative to the first mentioned member.

2. A trace carrier embodying an elongated vertical plate having an intermediate transverse outstruck channel and having its ends constructed and arranged for the attachment of upper and lower straps, a horizontal bar snugly received by the said channel and having its ends offset, and a supplemental plate secured to the inner face of the aforesaid plate and passing over the channel to retain the bar therein, the said bar being arranged to slide horizontally, being constrained against shifting vertically relative to the first mentioned plate, and having its offset ends attached to the trace thus spacing the said plate from said trace.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

EARNEST F. MORRELL.

Witnesses:
CHARLES D. SPOFFORD,
R. L. SAUERR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."