

(No Model.)

E. B. KNAPP.
TRACE.

No. 473,420.

Patented Apr. 19, 1892.

Fig. 1.

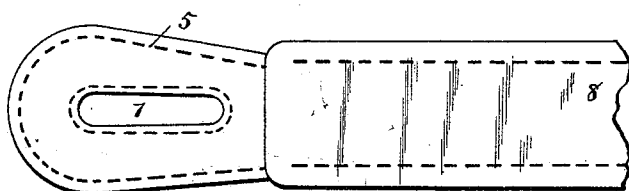


Fig. 2.

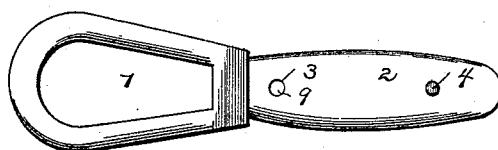
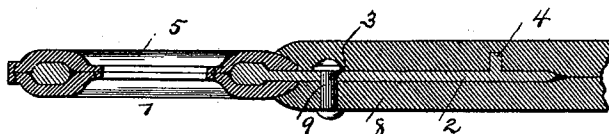


Fig. 3.



Witnesses

B. S. Ober

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By *his* Attorneys,

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UNITED STATES PATENT OFFICE.

EDMOND BURKE KNAPP, OF RIVERSIDE, CALIFORNIA, ASSIGNOR OF ONE-HALF TO HORACE B. WHITE, OF SAME PLACE.

TRACE.

SPECIFICATION forming part of Letters Patent No. 473,420, dated April 19, 1892.

Application filed March 11, 1891. Serial No. 384,585. (No model.)

To all whom it may concern:

Be it known that I, EDMOND BURKE KNAPP, a citizen of the United States, residing at Riverside, in the county of San Bernardino and State of California, have invented a new and useful Trace, of which the following is a specification.

My invention relates to improvements in traces; and the objects in view are to provide a trace adapted for connection with an ordinary single or double tree hook, and, while possessing great strength and durability, to present a plain smooth inner surface, whereby injury to the sides of the horse is avoided.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claim.

Referring to the drawings, Figure 1 is an elevation of a trace constructed in accordance with my invention. Fig. 2 is a similar view of the cockeye in detail employed. Fig. 3 is a vertical longitudinal section through the cockeye and trace.

Like numerals of reference indicate like parts in all the figures of the drawings.

In practicing my invention I construct of malleable iron and cast in a single piece the metal cockeye 1 and form integral therewith a thin flat blade or shank 2, which shank I provide near the cockeye with a rivet-receiving perforation 3 and at one side of and near the end of the shank with a stud 4. The cockeye has a leather covering 5, which in the present instance consists simply of inner and outer layers stitched along their meeting edges, said layers extending a slight distance beyond the eye and overlapping the shank, and between the layers 8 of the trace the shank is interposed, after which a rivet 9 is passed through the perforation 3 and the trace and the stud driven into the adjacent layer of said trace. This completes the construction of the trace, and the same may be placed over any ordinary whiffletree-eye,

whether of wood or metal, in the same manner as the usual cockeye.

The metal will of course lend great durability to the cockeye as a whole, while at the same time the leather covering prevents any noise or rattling arising from the employment of the metal in the construction of the eye.

The numerous advantages arising from such a constructed eye will be readily observed and require no specific mention; but I will simply state that by the use of such an eye it is impossible for the same to be torn out by strain of constant use, and should the leather become worn, so as to expose the metal of the eye, a new covering of leather may be substituted at a very slight cost, and the cockeye will not wear the eye of the whiffletree.

As shown, the rivet engages the lower layer of the trace, while the stud has engagement with the upper layer, and in this way strain on the two layers of the trace is equalized.

Having described my invention, what I claim is—

The herein-described improved trace, comprising the two opposite sections, the interposed flat shank terminating beyond the end of the trace in a whiffletree-engaging eye, said shank having formed upon its inner face a lug taking into the inner trace-section and terminating short of the exterior thereof and at one side of said lug provided with a rivet-hole, and the rivet passed through the outer section and through the shank, at the inner side of which it is headed, substantially as specified.

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

EDMOND BURKE KNAPP.

Witnesses:

JOHN MCLAREN,
HARVEY POTTER.