(No Model.)

A. MURRAY.

HARNESS.

No. 259,707. Patented June 20, 1882.

Fig. 1.

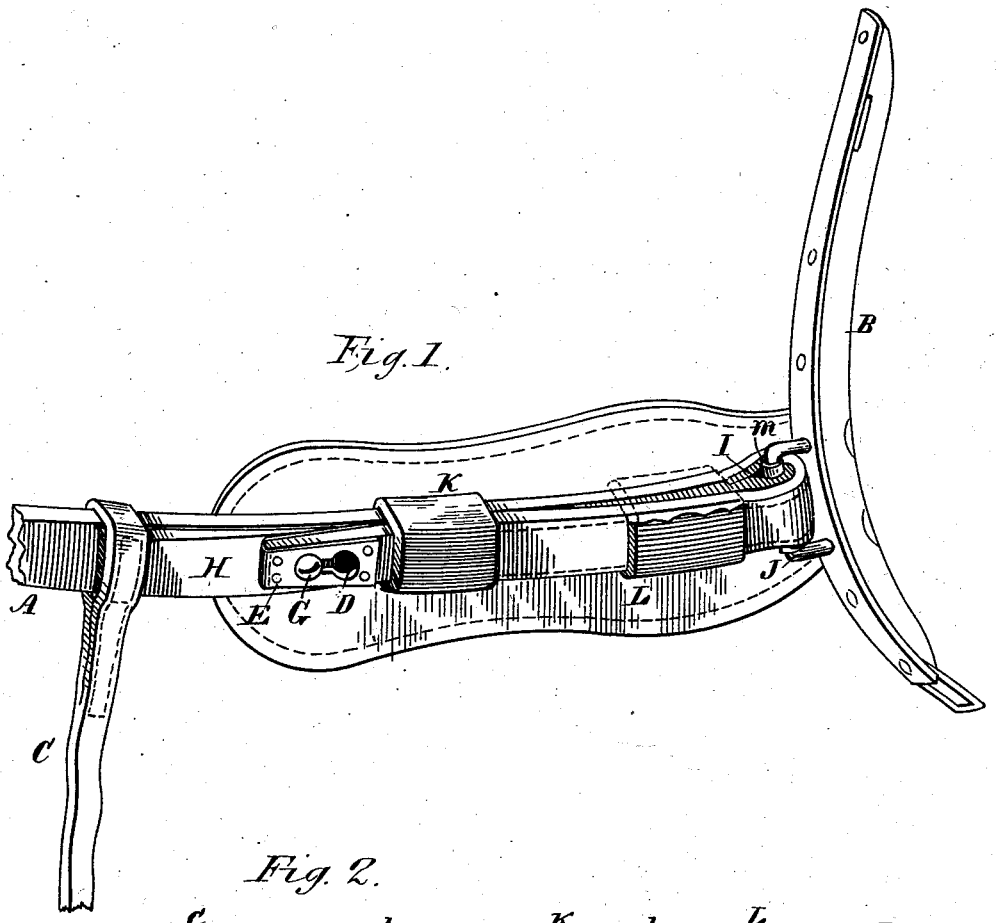
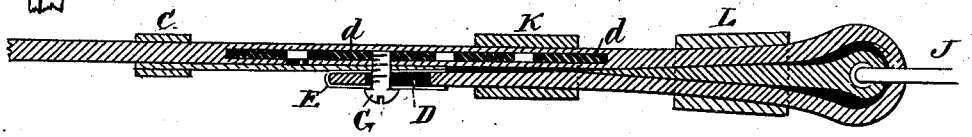


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

ALBERT MURRAY, OF ROCKPORT, MASSACHUSETTS.

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SPECIFICATION forming part of Letters Patent No. 259,707, dated June 20, 1882.

Application filed April 27, 1882. (No model.)

To all whom it may concern:

Be it known that I, ALBERT MURRAY, of Rockport, in the county of Essex and State of Massachusetts, have invented a certain new and useful Improvement in Harness, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which my invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view, and Fig. 2 a longitudinal transverse section.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates principally to means for coupling or connecting the trace or tug to the hames or breast-plate; and it consists in a novel construction and arrangement of parts, as hereinafter more fully set forth and claimed, by which a simpler, cheaper, and more effective device of this character is produced than is now in ordinary use.

In the drawings, A represents the trace, B the hames, and C the trace-girth.

The hames end of the trace is provided with a slot, D, which is re-enforced by the metallic plate E, and the girth is provided with a short retaining-strap, H, having a slot (not shown) in its free end, which passes over the screw G. A wedge-shaped lift, I, is secured to the loop or staple J, the loop corresponding in width with the trace A, and being provided with the friction roll or sleeve *m*. An iron plate, *d*, having a series of holes threaded to receive the screw G and render the same adjustable therein, is inserted in the trace A at a proper distance from its hames end, and there are also two loops, K L, fitted to slide on the trace and aid in securing it to the hames.

In the use of my improvement the girth-strap is adjusted and secured in position by attaching the strap H to the screw G, after which the hames end of the trace is passed under and through the loop or staple J and hooked to the screw by the slot D. The loops or slides K L are then pushed up as far as possible toward the staple, the wedge I acting to expand and keep the loop L in proper position and, by friction on the folded portions of the trace at this point, aid in securing it firmly to the hames.

In case a breast-plate is used instead of the hames the loop J may be attached thereto in place of the ordinary trace-buckle.

It will be seen that my invention obviates the necessity of using a buckle to secure the trace to the hames, thus improving the appearance and greatly strengthening this portion of the harness.

Having thus explained my invention, what I claim is—

The trace A, provided with the plate *d*, screw G, and loops L K, and having an end slot, in combination with the lift I and loop J, when constructed, combined, and arranged to operate substantially as and for the purpose specified.

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Witnesses:
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