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EDWARD A. COOPER.
Trace Carriers for Harness.

No. 122,364.

Patented Jan. 2, 1872.

Fig. I.

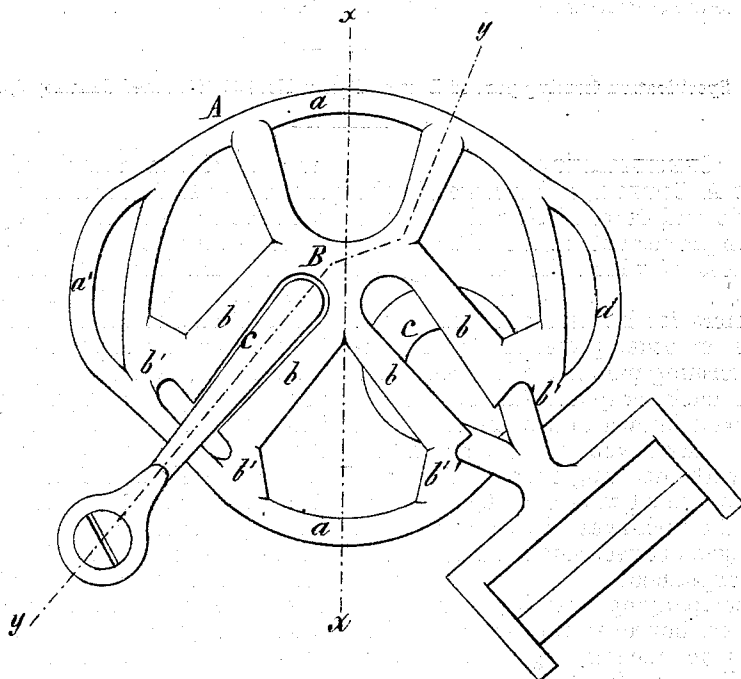


Fig. II.

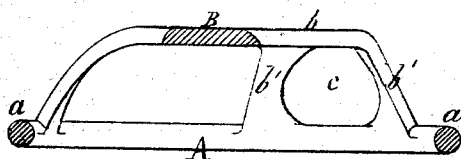


Fig. III.

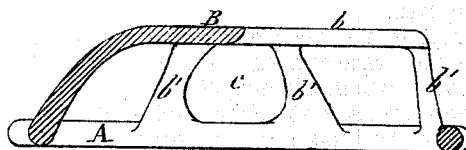
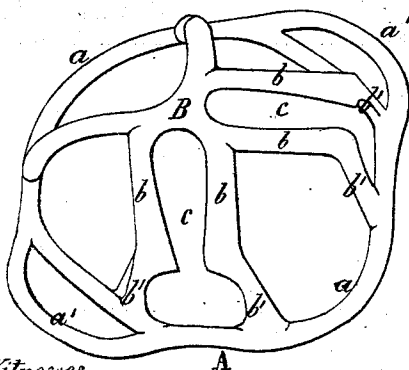


Fig. IV.



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Witnesses

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IMPROVEMENT IN TRACE-CARRIERS FOR HARNESS.

Specification forming part of Letters Patent No. 122,364, dated January 2, 1872.

SPECIFICATION.

I, EDWARD A. COOPER, of Lancaster, in the county of Erie and State of New York, have invented an Improvement in Trace-Carriers for Horses' Harness, of which the following is a specification:

Trace-carriers for harness consisting of a hook, tongue, or other projecting device attached to or forming part of that ring or frame to which the back, crupper, and hip-straps connect are well known and more or less in common use. My invention consists in the combination with such ring or frame of an elevated frame provided with openings in such manner that the cock-eyes may be readily and securely engaged between said frames, as hereinafter fully explained.

In the accompanying drawing, Fig. I is a plan view of my improved trace-carrier. Fig. II is a section on line *xx*, Fig. I. Fig. III is a section on line *yy*, Fig. I; and Fig. IV is a perspective view thereof.

Like letters designate like parts in each of the figures.

A represents the ring or main frame of my improved trace-carrier. *aa* are the portions thereof to which the crupper and back straps, respectively, are attached, and *a' a'* the bars to which the hip-straps are secured. B represents the elevated frame formed with the main frame A. It is raised above the latter sufficiently to enable a cock-eye to be introduced between the frames. The frame B is composed of horizontal bars *bb* connected to the frame A by vertical pieces *b' b'*, all arranged so as to form two openings, *cc*, corresponding in shape with that of a cock-eye when arranged edgewise to the

frame B with the round end toward the center of the ring A. In order to engage the cock-eyes with the frame B they are placed on edge, or so as to present their least dimension to the frame B, and passed through the openings *cc*, when they are turned so as to present their broadest side to the frame B, in which position they wedge between the vertical bars *b' b'* and are held between the bars *bb* and the ring A, as clearly represented in Fig. I. The cock-eyes being tapering from the rounded end toward the staple, and the openings *cc* being of the same shape, it is evident that when the harness is hung up so as to bring the carrier in the position represented in Fig. I, the rounded ends of the cock-eyes will be below the corresponding portion of the openings *cc*, so that an accidental disengagement of the cock-eyes in this position cannot occur, as a cock-eye can only be disengaged by raising it so as to make it coincide to its full length with the opening *c*. In Fig. I one cock-eye is represented in the proper position for engaging it with and disengaging it from the carrier, while the other cock-eye is represented engaged with the carrier. The openings *cc* are preferably arranged converging toward the center of the frame A, to facilitate the engagement of the cock-eyes therewith.

I claim as my invention—

The combination with the ring or frame A of the elevated frame B and openings *c*, forming a trace-carrier, substantially as hereinbefore set forth.

EDWARD A. COOPER.

Witnesses:

EDWARD WILHELM,
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