

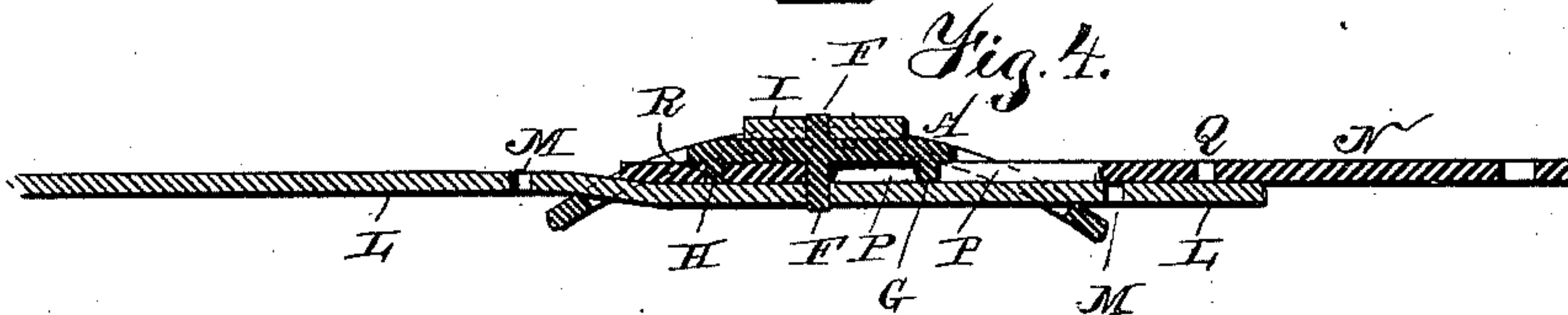
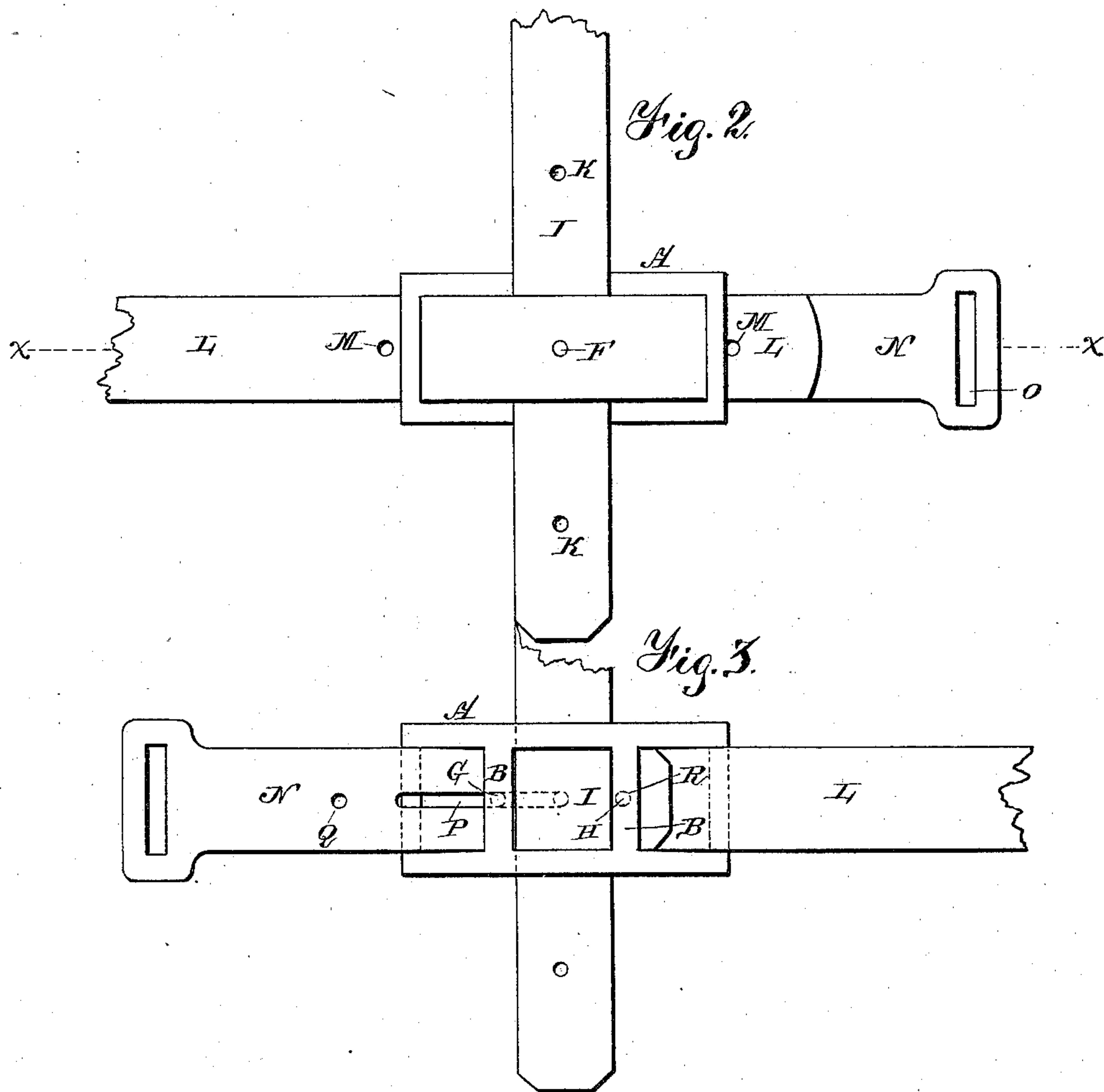
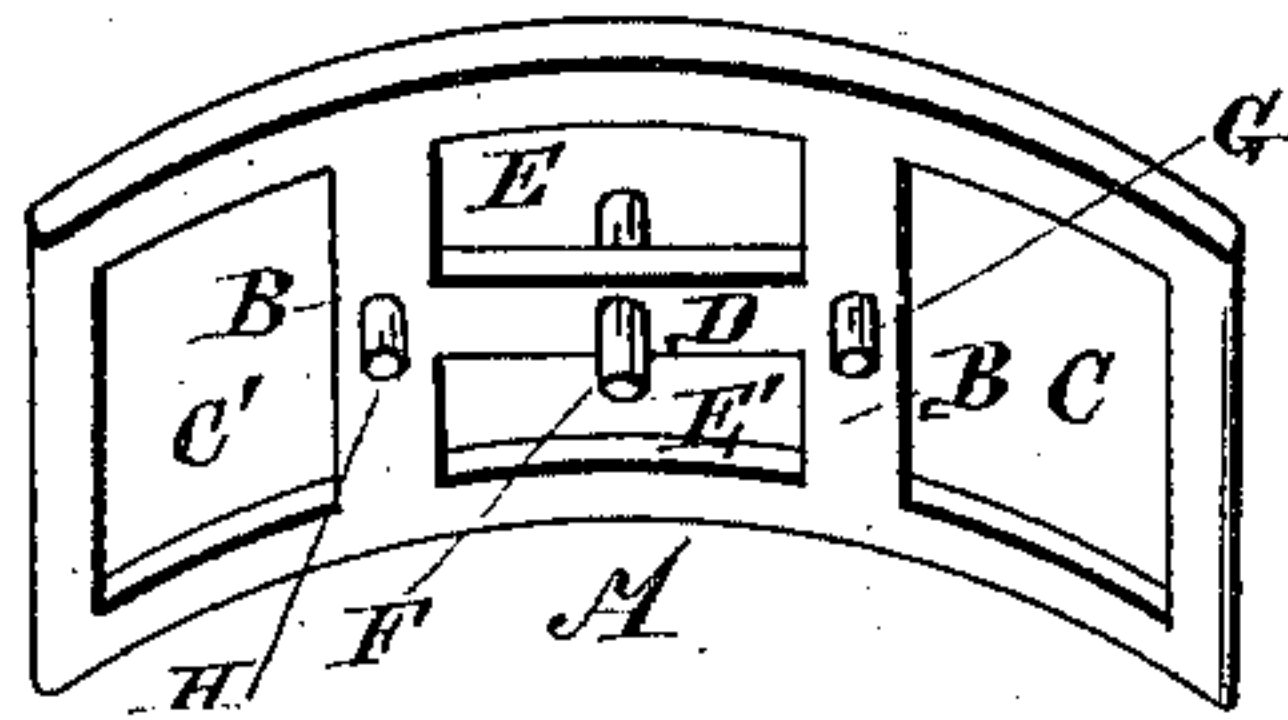
(No Model.)

J. R. SIMISON.

COMBINED BUCKLE AND TRACE SUPPORT.

No. 307,685.

*Fig. 1.* Patented Nov. 4, 1884.



Witnesses:

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Inventor:

*John R. Simison.*  
per  
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# UNITED STATES PATENT OFFICE.

JOHN R. SIMISON, OF LANCASTER, WISCONSIN.

## COMBINED BUCKLE AND TRACE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 307,685, dated November 4, 1884.

Application filed January 21, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN R. SIMISON, a citizen of the United States, residing at the city of Lancaster, in Grant county, in the State of Wisconsin, have invented a new and useful Improvement in Harnesses, of which the following is a specification.

My invention relates to an improvement in combined buckle and trace-support; and it consists in the peculiar construction and combination of devices that will be more fully set forth hereinafter.

The object of my invention is to provide a combined buckle and trace-support with a view to simplifying the construction of the harness, whereby the pad-skirt of a harness is reduced to a single strap, and the several parts of the harness that are fastened to or by the usual trace or tug buckle are made more readily adjustable to different lengths, as occasion may require.

In the accompanying drawings, Figure 1 is a perspective of my combined buckle and trace-supporter detached. Fig. 2 is a front elevation of the same, showing the back-band, billet, trace, and tug-plate attached thereto. Fig. 3 is a similar view taken from the rear side. Fig. 4 is a central longitudinal section taken on the line *x x* of Fig. 2.

A represents the outer frame of the buckle, which is curved, as shown at Fig. 1. Cross-bars B connect the sides of the buckle at a suitable distance from each of its ends, and thus leave openings or slots C C' therein. A central bar, D, connects the bars B, and thus forms openings E E' in the center of the buckle, between the bar D and the sides. From the center of the bar D, on both sides, projects a stud, F, and from the inner sides, at the center of the bars B, project studs G H.

I represents the back-band billet and pad-skirt formed of a single strap, which passes from the front through the opening E, passes behind the bar D, and out through the opening E'. This strap is provided with a series of buckle-holes, K, into one of which the rearward extension of the stud F passes at any de-

sired adjustment, and thus secures the strap I in place, and holds it at any desired point. The lower end of the strap I forms a billet for the belly-band.

L represents the trace, which passes through the openings C C', and is provided with a series of buckle-holes, M, in one of which the stud F passes, and thus secures the trace in position in the buckle.

N represents a hame-tug adjuster which is made of a metal plate, and is provided with the stud or buckle holes Q R, the slot P, and the loop O at its front end, by which it is attached to the rear end of the hame-tug. The place of the adjuster is under the end of the trace. In use it passes through the openings C C'. When arranged at its longest adjustment, the stud G passes through the hole R, and the studs F and H pass into the slot P. By raising the trace from the stud F and drawing it backward, and passing all three of the studs into the slot P, a shorter adjustment is obtained, and by causing the studs F and H only to pass into the slot still another adjustment can be obtained. The hame-tug adjuster may be attached to the hame-tug by rivets as well as by the loop O, if preferred.

The advantages gained by my invention are that I am enabled to make the pad-skirt, trace-supporter, and belly-band billet of a single strap, simplify and cheapen the mode of attachment to the trace-buckle, and provide an adjustable hame-tug, which often serves a very useful purpose.

Having thus described my invention, I claim—

1. A buckle having the openings C C' E E' and studs F, G, and H, the studs projecting above and below, substantially as described.

2. A buckle having the openings C C' E E' and studs F, G, and H, in combination with the hame-tug adjuster L, the trace, and trace-support, substantially as described.

JOHN R. SIMISON.

Witnesses:

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