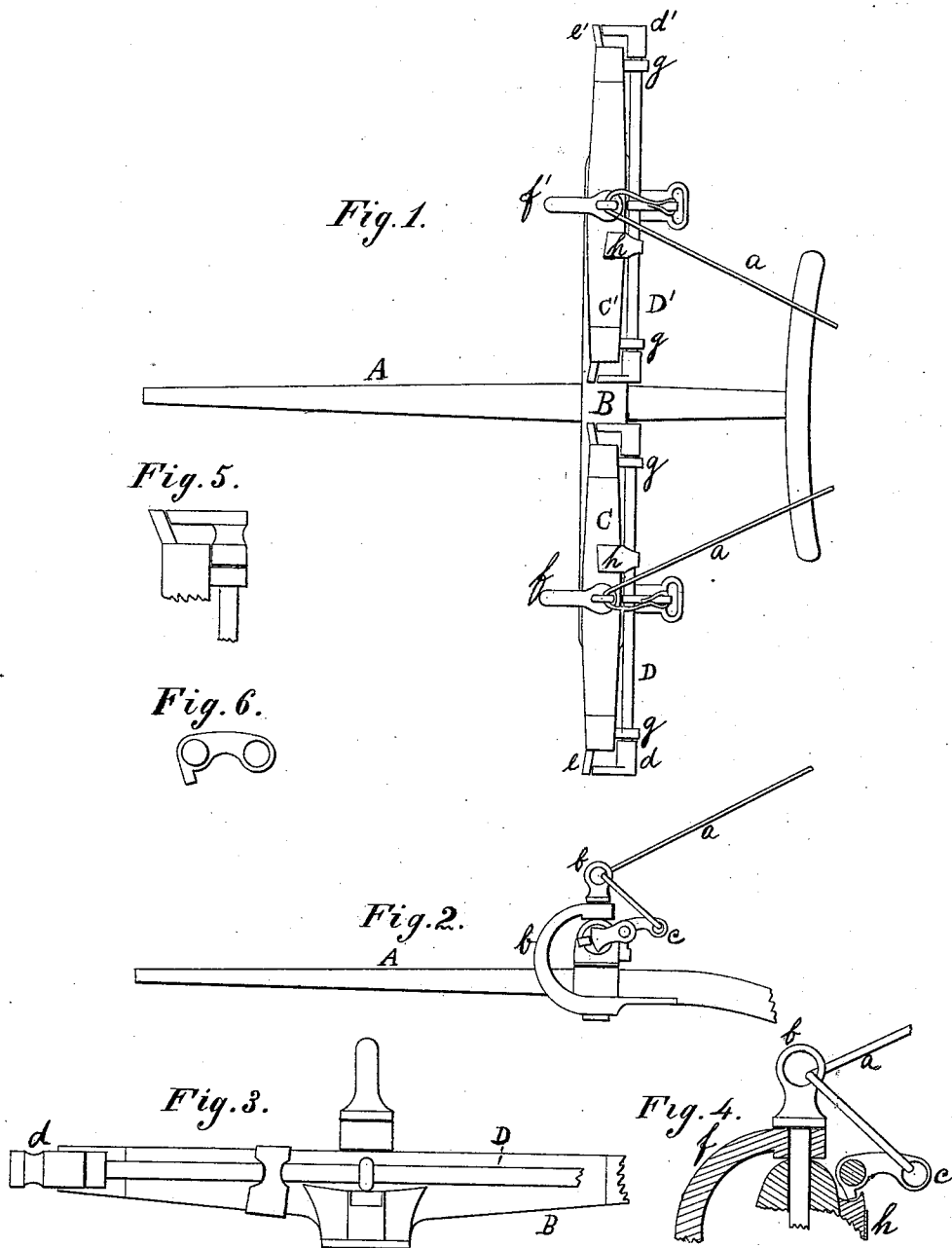


J. BUCKLEY.
TRACE DETACHER.

No. 180,413.

Patented Aug. 1, 1876.



WITNESSES:

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JOHN BUCKLEY, OF TRENTON, MISSOURI.

IMPROVEMENT IN TRACE-DETAACHERS.

Specification forming part of Letters Patent No. **180,413**, dated August 1, 1876; application filed July 5, 1876.

To all whom it may concern:

Be it known that I, JOHN BUCKLEY, of Trenton, in the county of Grundy and State of Missouri, have invented certain new and useful Improvements in Trace-Detachers; and I do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

The same letters and figures of reference are used to indicate the corresponding parts.

After describing the invention, its nature and extent will be shown in the claims.

The object of my invention is to enable the driver to immediately detach the horses from a carriage, in the event of their becoming unmanageable from any cause.

Figure 1 is a plan view. Fig. 2 is a side view. Figs. 3, 4, 5, and 6 are detached views.

A is the tongue; B, the cross-piece to which the whiffletrees are attached. C C' are the whiffletrees. *f f'* are the clips by which the whiffletrees are attached to the cross-piece B by means of the bolt *b*. The bolt *b* is provided with an eye, through which the cord or strap *a* passes. The whiffletrees C C' are provided at either end with the draw-pins *e e*. These draw-pins project forward, and are slightly out of a right line with the line of the whiffletree. At each end of either whiffletree are two perforated lugs. In these lugs are placed the rods D D'. Each of these rods is provided with the quadrants *d d* at its extremities. The rods D D' are provided with

the arms *c c* projecting to the rear. These arms are provided with an eye, to which the cord or strap *a* is fastened. The arms *c c* are provided with a small projecting lug, which engages with a spring made of rubber, steel, or some suitable material attached to the rear of the whiffletree. The strap *a* can be made fast to the dash-board or foot-rail of the carriage.

When, for any reason, it is desired to detach the horses from the carriage, pull the strap *a* which elevates the arm *c*, which is rigidly attached to the rod D. This turns the quadrants *d d* away from the draw-pins *e e*, thus leaving the traces to fall from the whiffletree, when the horses are free from the carriage.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a horse-detacher, the whiffletree C, provided with the bent draw-pins *e e*, in combination with the rod D, the quadrant *d*, and the arm *c*, substantially as described, and for the purposes set forth.

2. The whiffletree C, provided with the bent draw-pins *e e*, in combination with the clip *f*, the bolt *b*, rod D, provided with the quadrants *d d*, and the arm *c*, and spring *h*, substantially as described and shown, and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of June, 1876.

JOHN BUCKLEY.

Witnesses:

JOHN KIRK,
G. R. ROESCH.