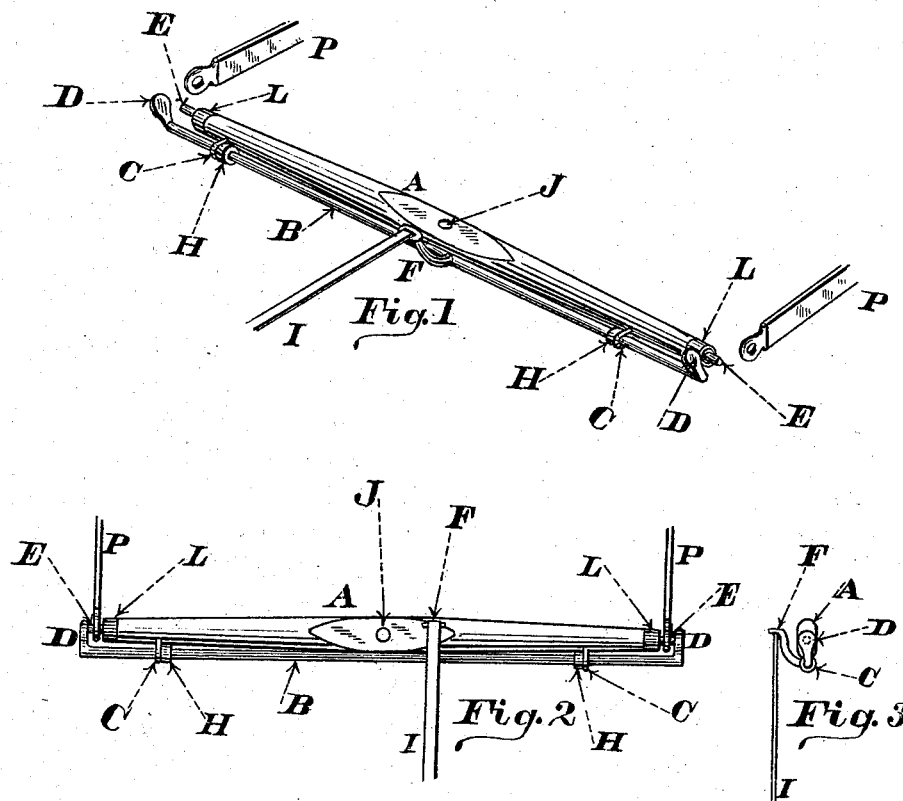


(No Model.)

R. RUSSELL.
HORSE DETACHER.

No. 261,876.

Patented Aug. 1, 1882.



WITNESSES:

Paul A. Staley
Frank Johnson

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UNITED STATES PATENT OFFICE.

ROBERT RUSSELL, OF BOONE, IOWA.

HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 261,876, dated August 1, 1882.

Application filed September 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, ROBERT RUSSELL, a citizen of the United States, residing at Boone, in the county of Boone and State of Iowa, have invented a new and useful Whiffletree or Horse-Detacher, of which the following is a specification.

My invention relates to improvements in whiffletrees or horse-detachers; and the object of my improvement is to provide an arrangement whereby a horse may be instantly detached from a carriage or other vehicle by the occupant of such carriage or vehicle in case of a runaway, or when for any other reason the occupant so desires, by simply pulling a strap so situated as to be always in easy reach. I attain this object by means of the construction, arrangement, and combination of the several parts, as illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a single-tree or whiffletree to which my invention has been applied, and best illustrates the general arrangement of the same. Fig. 2 is a plan view. Fig. 3 is an end elevation.

Similar letters refer to similar parts throughout the several views.

A is a single-tree supplied with the ferrules L L and pins E E.

B is a rocker-rod fastened to the single-tree by the staples C C, and provided with the arm F, to which the strap I, or its equivalent, is attached, and having the ends D D flattened and bent at right angles, as shown, so that when the rod B is turned, as shown in Figs. 2 and 3, the ends D D impinge against the ends of the pins E E, thus holding the traces P P securely in their places.

H H are washers, which are secured to the rock-shaft B on the inner sides of the staples C C, so as to obviate any movement endwise of the rod B and insure the ends D D coming

into their proper position at the ends of the pins E E when the rod is turned down for that purpose.

To detach the horse, simply pull the strap I, which is extended to any convenient point within the vehicle to which the invention is attached. This, by means of the arm F, to which it is attached, turns the rod B, which lifts the ends D D from the ends of the pins E E, allowing the traces to drop off, as shown in Fig. 1.

I am aware that in devices for detaching horses a rock-shaft having a bent arm adapted to engage with draw-pins in the ends of the whiffletree has been heretofore used. These bent arms, at the ends of the rock-shaft, have sometimes been arranged to barely impinge upon one side of the draw-pins, and sometimes have covered the ends of said pins. Such rock-shafts have also been provided with a cord or strap, by means of which the shaft is rotated so as to uncover the draw-pins and release the traces therefrom. These features, therefore, as well as other details of construction hereinbefore described, I do not broadly claim; but

What I do claim as my invention is—

In a horse-detacher, the combination of the whiffletree A, having staples C, ferrules L, and draw-pins E, the continuous rock-shaft B, journaled in the staples or bearings C, and provided with washers or shoulders H, arranged on the shaft between the staples, central arm F, and bent end plates or arms, D, adapted to cover the ends of the draw-pins, the traces P, attached to said pins, and the strap I, secured to the arm F, all substantially as and for the purpose shown and described.

ROBERT RUSSELL.

Witnesses:

JAMES N. GILDEA,
R. F. JORDAN.