I. L. LANDIS.

Devices for Detaching Horses.

No. 147,143. Patented Feb. 3, 1874.

Fig. 1.

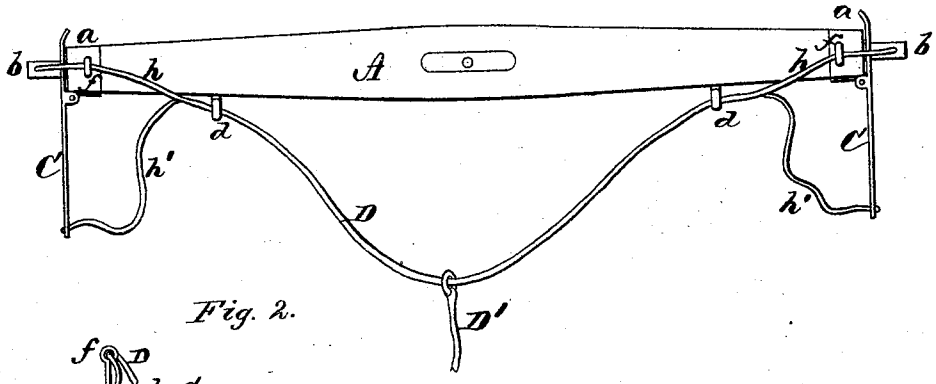


Fig. 2.

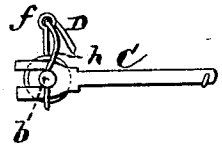
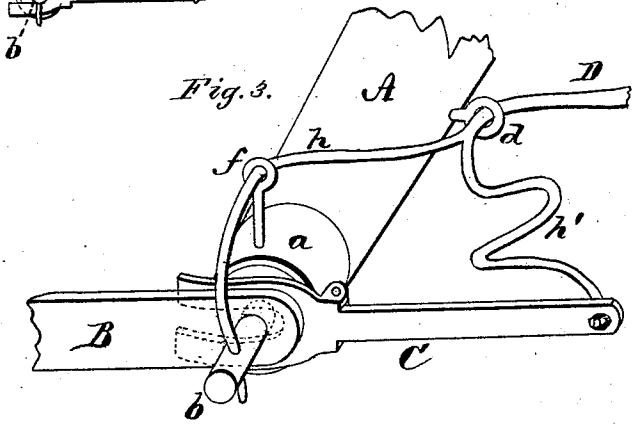


Fig. 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

ISRAEL L. LANDIS, OF LANCASTER, PENNSYLVANIA.

IMPROVEMENT IN DEVICES FOR DETACHING HORSES.

Specification forming part of Letters Patent No. **147,143**, dated February 3, 1874; application filed January 2, 1874.

CASE A.

To all whom it may concern:

Be it known that I, ISRAEL L. LANDIS, of Lancaster, in the county of Lancaster and in the State of Pennsylvania, have invented certain new and useful Improvements in Device for Detaching Horses; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a device for detaching horses, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view of a whiffletree embodying my invention. Fig. 2 is an end view of the same; and Fig. 3 is an enlarged perspective view of one end of the whiffletree, showing the trace in position and my device attached to the whiffletree.

A represents an ordinary whiffle or single tree, to be pivoted in the center in the usual manner, and provided at each end with a ferrule, *a*, and pin, *b*, upon which latter the trace B is to be attached. At the outer end of each ferrule *a*, on the rear side of the single-tree, is pivoted a lever, C, the front end of which is forked, and passes over the pin *b*—that is, one prong above and the other below the pin—close to the end of the single-tree. D represents a leather strap, passing through eyes or loops *d d* on the rear side of the whiffletree, a suitable distance from each end of the whiffletree. Each end of the strap D is slit lengthwise in two parts, *h* and *h'*, the part *h* passing through an eye-screw, *f*, on top of the single-tree, and through a hole in the end of the pin *b*, to hold the trace on said pin in the usual manner. The other part, *h'*, is attached to the rear end of the lever C. In the center of the strap D is attached another strap, D', which is to pass up into the vehicle, so as to be within easy reach of the driver. By pulling on this strap D', both ends of the strap D are drawn inward, the parts *h* pulling out of the holes in the pins *b*, and the parts *h'* turning the levers C on their hinges, so that their front forked ends will force the traces off of said pins, and thus detach the horse from the vehicle.

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

The combination, with the single-tree A and pins *b b*, of the forked levers C C, hinged to the rear of the whiffletree, and the strap D, having its ends split to form the parts *h h'* at each end, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of December, 1873.

ISRAEL L. LANDIS.

Witnesses:

A. N. MARR,
E. MCB. TIMONEY.