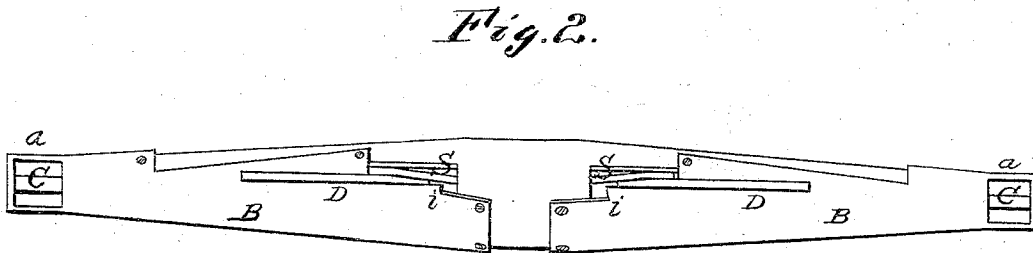
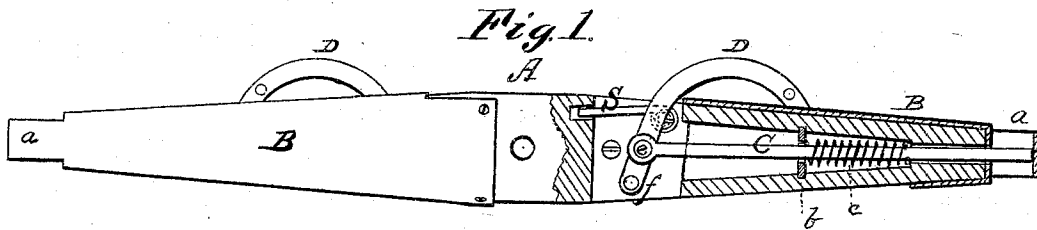


R. NESBITT.

Devices for Detaching Horses.

No. 147,961.

Patented Feb. 24, 1874.



Witnesses
C. A. Bates.
Phil. C. Masi.

Inventor.
Robert Nesbitt
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Attys

UNITED STATES PATENT OFFICE.

ROBERT NESBITT, OF BLAIRSVILLE, PENNSYLVANIA.

IMPROVEMENT IN DEVICES FOR DETACHING HORSES.

Specification forming part of Letters Patent No. 147,961, dated February 24, 1874; application filed September 20, 1873.

To all whom it may concern:

Be it known that I, ROBT. NESBITT, of Blairsville, in the county of Indiana and State of Pennsylvania, have invented a new and valuable Improvement in Releasing Whiffletrees; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a part section of my releasing device for whiffletrees. Fig. 2 is a front view of same.

The object of this invention is to improve releasing devices for whiffletrees, as will be hereinafter described.

In the accompanying drawing, A represents the wooden portion of the whiffletree, which is recessed and longitudinally perforated for receiving the releasing device. B B represent two metallic sheaths or ferrules, which are fitted upon the ends of the wooden portion A, and have loops or eyes *a a* formed on their outer extremities. C C represent two bolts, which play longitudinally in the whiffletrees, and extend through the ends of the sheaths, so as to abut against the outer ends of the loops *a a*, and hold therein the ends of the traces. These bolts are acted on by helical springs *c*, which bear against cross-plates *b*, and operate to force the bolts outwardly against the loops *a*. The inner ends of these bolts are pivoted at *e* to curved levers D, which latter are pivoted at *f* to wearing-plates seated into the recesses in the whiffletree, as shown in Fig. 1. The levers D pass out through slots and are curved around, so that, when the bolts

C are in their normal position, (shown in Figs. 1 and 2,) the outer ends of these levers abut against the side of the whiffletree, and are there held by the springs *c*. These levers D are curved, for the purpose of having them out of the way, except when the bolts are retracted, and at the same time allowing them to be made of a proper length to afford a good purchase in retracting the bolts, which is done by means of cords or chains carried up to a convenient position for the driver. It is important that the bolts C should be locked when they are retracted to free the traces, and for this purpose the sheaths B are cut away so as to leave shoulders or catches at *i i*, behind which the levers are forced by means of inclined springs S S. These springs act to raise the free ends of the levers D; consequently the pivotal attachments of these levers should be sufficiently loose to allow the levers to rise as they are drawn back.

Spring releasing-bolts for releasing traces from whiffletrees are not broadly herein claimed by me.

What I claim as new, and desire to secure by Letters Patent, is—

The combination of rod C, actuating-lever D, springs *c* and S, and sheaths B, having shoulders *i*, applied to a whiffletree, as and for the purposes specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ROBERT NESBITT.

Witnesses:

G. H. JOHNSON,
JOHN RICHARDSON.