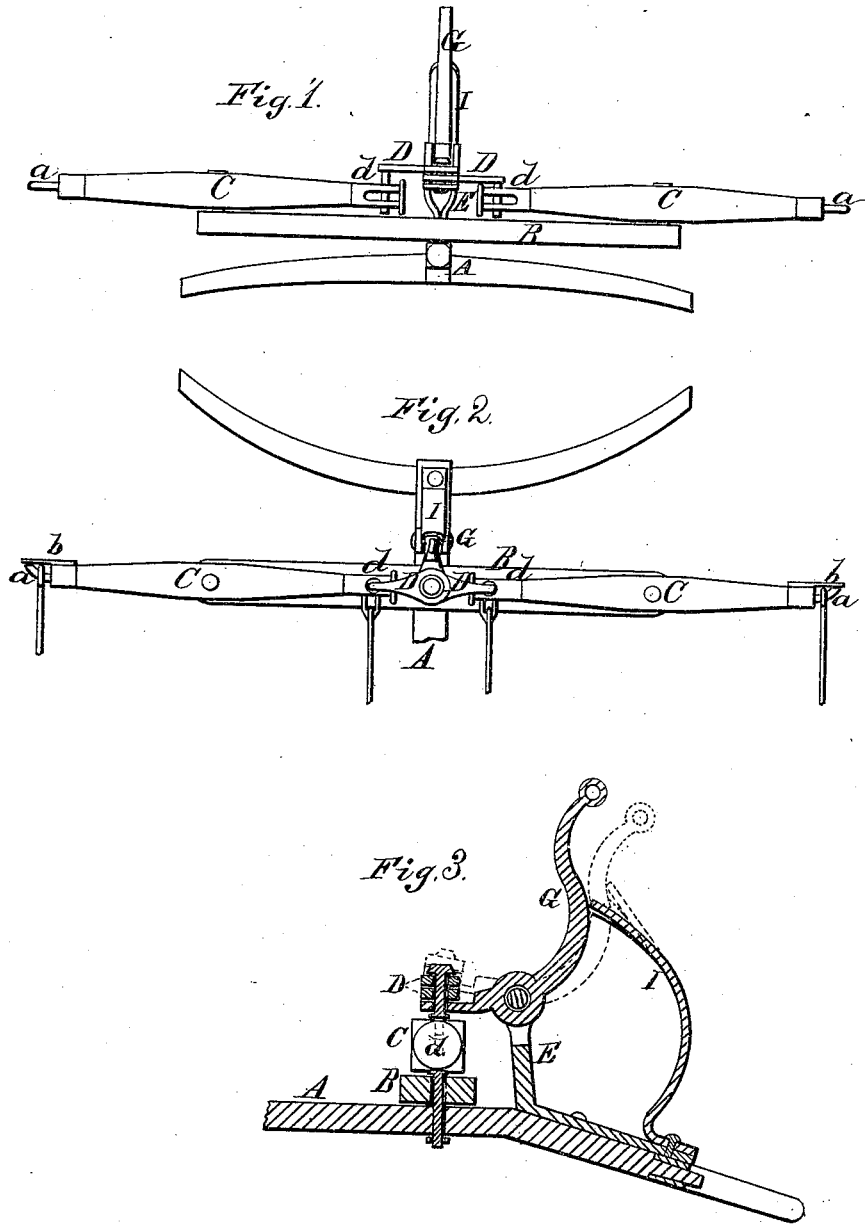


J. K. CRAIG.  
DETACHING HORSES.

No. 180,325.

Patented July 25, 1876.



WITNESSES  
*C. H. Searle*  
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# UNITED STATES PATENT OFFICE.

JOHN K. CRAIG, OF BLACK JACK GROVE, TEXAS.

## IMPROVEMENT IN DETACHING HORSES.

Specification forming part of Letters Patent No. **180,325**, dated July 25, 1876; application filed May 20, 1876.

*To all whom it may concern:*

Be it known that I, JOHN K. CRAIG, of Black Jack Grove, in the county of Hopkins and State of Texas, have invented a new and valuable Improvement in Horse-Detacher; 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 rear elevation of my horse-detacher, and Fig. 2 is a plan view of the same. Fig. 3 is a longitudinal vertical sectional view thereof.

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

In the annexed drawing, A represents the pole with double-tree B, and on each end of said double-tree is pivoted the single-tree C. In the outer end of each single-tree is a curved pin, *a*, bent backward, as shown, on which the outer trace is hooked, and prevented from slipping off by means of a flat spring, *b*, attached to the rear side of the whiffletree or single-tree, and bearing against the end of the pin. On the inner end of each single-tree C is fastened a metal sleeve or ferrule, *d*, which is slotted horizontally for the passage of the end of the inner trace, said trace being held by means of an L-shaped pin, D, one arm of which passes vertically through the sleeve *d* and the hole in the trace

made for that purpose. The other ends of the two pins or bolts D D are pivoted on the front end of an elbow-lever, G, which is pivoted in a casting, E, secured on the tongue A, and its upper arm pressed forward by a spring, I, as shown. To this arm of the lever a cord or wire is to be attached, to run back over the dash-board.

By pulling on the upper end of the lever G the two yoke-bolts D D are simultaneously lifted out of the inner ends of the single-trees, releasing the inner traces, and the single-trees are at once turned on their pivots, so that the outer traces will almost at the same instant slip off from the pins *a a*, and thus the horses are instantaneously detached from the vehicle.

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

1. The combination of the single-trees C C, having their inner ends slotted and perforated, as described, the yoke-bolts D D, elbow-lever G, and spring I, substantially as and for the purpose set forth.

2. The bent pins *a* and springs *b*, attached to the outer ends of the single-trees C C, in combination with the yoke-bolts D D and lever G, substantially as and for the purpose set forth.

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

JOHN KERR CRAIG.

Witnesses:

A. S. MARSHALL,  
C. R. WARD.