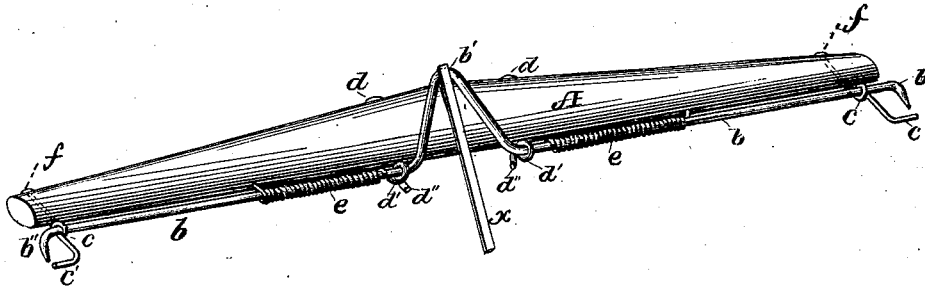


W. G. CUMMINS  
Horse-Detacher.

No. 207,951.

Patented Sept. 10, 1878.



*Attest*

*James J. Wonnack*  
*Norman W. Shaw*

*Inventor,*

*William G. Cummins*  
*by Louis Bagger & Co.*  
*his Attornies.*

# UNITED STATES PATENT OFFICE.

WILLIAM G. CUMMINS, OF COOKVILLE, TENNESSEE.

## IMPROVEMENT IN HORSE-DETACHERS.

Specification forming part of Letters Patent No. 207,951, dated September 10, 1878; application filed August 18, 1877.

*To all whom it may concern:*

Beit known that I, WILLIAM G. CUMMINS, of Cookville, of the county of Putnam and State of Tennessee, have invented a new and useful Improvement in Horse-Detachers, or devices for detaching horses from the whiffletrees of carriages, plows, &c.; and I do hereby declare that the following is a full, clear, and exact description of my improvement, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing, which represents a perspective view of my device.

My invention relates to that class of horse-detachers in which the traces are released from the ends of the single-tree by being inserted upon hooks formed in each end of a rock-shaft or rod, which may be turned or tilted so as to release the traces from said hooks; and it consists in the combination, with a whiffletree, of a rod operated by spiral springs, and in the detailed construction and arrangement, relative to each other, of the tree and rod, substantially as hereinafter more fully described, and pointed out in the claim.

In the drawing, A is the single-tree, which is made of wood, and has inserted transversely at each end a bolt, *f f*, the projecting rear ends of which are twisted to form loops or eyes *e*, and then bent at right angles to form the trace-guards *c'*, one at each end of the tree. *d d* are two other intermediate bolts, inserted into the tree A parallel to each other and to the end bolts, *f f*, their projecting rear ends being bent to form eyes *d'* and a short arm or lug, *d''*, as shown. *b* is a rod pivoted in the eyes *d' d'* and *e e*, and bent at each end to form hooks, (denoted by *b''*.) The middle part of rod *b* is bent to form a triangular lever-arm, *b'*, to

the end or point of which is secured a strap or cord, *x*, which passes under the front end of the carriage and up to the driver's seat, so as to be at all times within convenient reach.

*e e* are two spiral springs inserted upon rod *b* between the eyebolts *d* and *f*, one on each side. One end of each of the springs *e* is secured in the wood of the single-tree, and the other end in rod *b*, so as to exercise a tension which will hold the lever-arm *b'* down against the top of the tree, as shown in the drawing, thereby keeping the hooks *b'' b''*, upon which the traces are hitched, in a horizontal position, with their points pointing backward against the trace-guards *c' c'*. To release the traces all that is necessary is to pull upon the strap or cord *x*, which will tilt the rod and turn the trace-hooks forward, away from the guards, and thus enable the traces to slip off instantly.

The short lugs or stop-arms *d'' d''* are for the purpose of preventing rod *b* from being turned too far, as the bent part *b'* of rod *b* will bring up against them, thus preventing more than one half-revolution of the rod.

Having fully described my invention, I claim as new and desire to secure by Letters Patent of the United States—

The combination, with the single-tree A, having eyebolts *d d* and end bolts, *f f*, constructed as described, of the rod *b*, having trace-hooks *b'' b''* and spiral springs *e e*, all constructed and combined to operate substantially as and for the purpose herein shown and set forth.

WILLIAM G. CUMMINS.

Witnesses:

JAMES J. WOMACK,  
NORMAN W. SHAW.