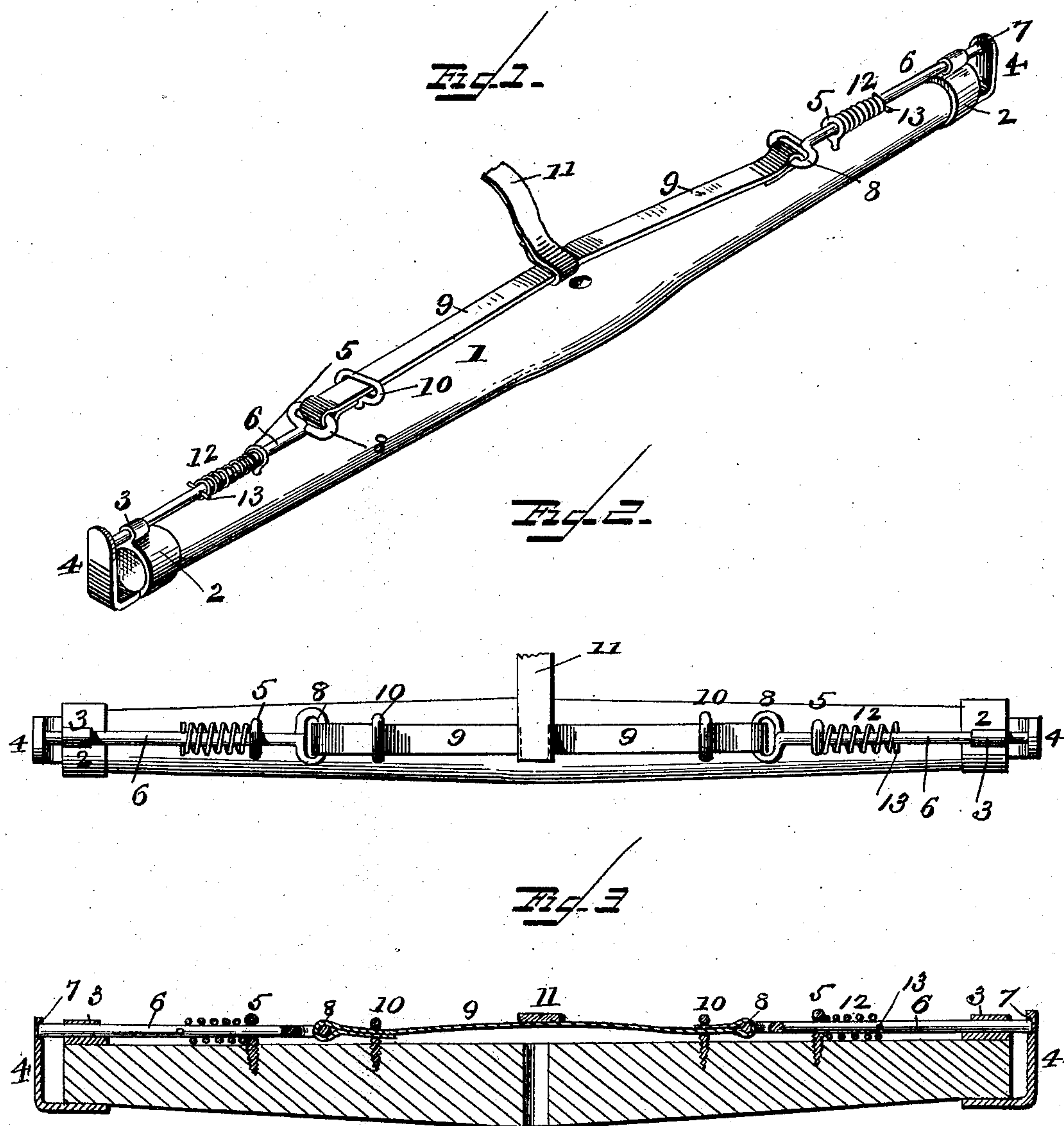


(No Model.)

E. L. BROWN  
HORSE DETACHER.

No. 368,870.

Patented Aug. 23, 1887.



Witnesses  
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# UNITED STATES PATENT OFFICE.

EUGENE L. BROWN, OF PUTNEYVILLE, PENNSYLVANIA.

## HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 368,870, dated August 23, 1887.

Application filed May 17, 1887. Serial No. 238,524. (No model.)

*To all whom it may concern:*

Be it known that I, EUGENE L. BROWN, a citizen of the United States, and a resident of Putneyville, in the county of Armstrong and State of Pennsylvania, have invented certain new and useful Improvements in Singletrees; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a view of my improved horse detacher applied to a singletree. Fig. 2 is a top view of the same; and Fig. 3 is a longitudinal sectional view on line *z z*, Fig. 2.

Similar numerals of reference indicate corresponding parts in all the figures.

My invention has relation to that class of horse-detachers which can be easily applied to an ordinary singletree, by means of which the ends of the traces are secured upon the ends of spring-actuated bolts arranged to slide in suitable bearing on the singletree; and it consists in the improved construction and combination of parts of such a detacher, as hereinafter more fully described and claimed.

In the accompanying drawings, the numeral 1 indicates the singletree proper, which may be attached to the doubletree or vehicle in any suitable manner, and the ends of this singletree are provided with caps 2, having longitudinal eyes or boxes 3 upon their upper sides, and having upwardly-projecting lips extending up over the ends of the singletree, as shown at 4.

Perforated lugs or eyes 5 are secured upon the upper side of the singletree, near to the middle of the same, and registering with the boxes upon the caps, and rods 6 slide in the boxes and eyes, engaging recesses 7 with their outer ends in the upwardly-projecting lips, and the inner ends of these rods are provided with eyes 8, into which the ends of a strap, 9, are secured, the said strap passing through staples or eyes 10 upon the upper side of the singletree.

A strap, 11, is secured to the middle of the strap and serves to draw the strap upward at its middle, drawing the bolts back, and this strap may be carried in any suitable manner to within reach of the driver.

Springs 12 are coiled around the rods and bear with their ends against the eyes in which

the rods slide and against pins 13, inserted transversely through the rods, the springs serving to force the rods outward into engagement with the recesses in the lips and closing the space between the ends of the singletree and caps and the lips.

It will now be seen that when the eyed ends of the traces are inserted between the lips and the ends of the singletree, the bolts having been previously withdrawn by means of the strap, the bolts, being released, will engage the eyes and hold the traces attached to the ends of the singletree, and whenever it is desired to release the horse the strap at the middle of the strap connecting the bolts may be drawn, when the bolts will be withdrawn and the traces will be released.

It will be seen that any common singletree may have this device attached to it, and that after the device has been attached the traces may be secured to the singletree in such a manner that they cannot be disengaged from it by being slackened or by being drawn to one side or the other, the only manner of releasing the traces being by withdrawing the bolts.

The device may be attached in the manner shown, with the lips pointing upward, or it may be attached with the lips pointing downward or forward, either of these three positions admitting of the traces slipping forward when the bolts are withdrawn.

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

The combination of a singletree, caps secured at the ends of the singletree and having longitudinal boxes upon one side and having lips projecting over the ends of the singletree formed with recesses in the inner faces registering with the boxes, eyes upon the singletree registering with the boxes, staples registering with the eyes, coiled springs upon the rods bearing against the eyes and against pins in the rods, forcing the rods outward, a strap secured with its ends to the eyed ends of the rods, and a strap secured to the middle of the said strap, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

Witnesses: EUGENE L. BROWN.  
BOYD. H. PUTNEY,  
J. D. O'DONNELL.