

R. T. CONNER.
HORSE DETACHER.
APPLICATION FILED DEC. 13, 1910.

1,003,343.

Patented Sept. 12, 1911.

Fig. 1.

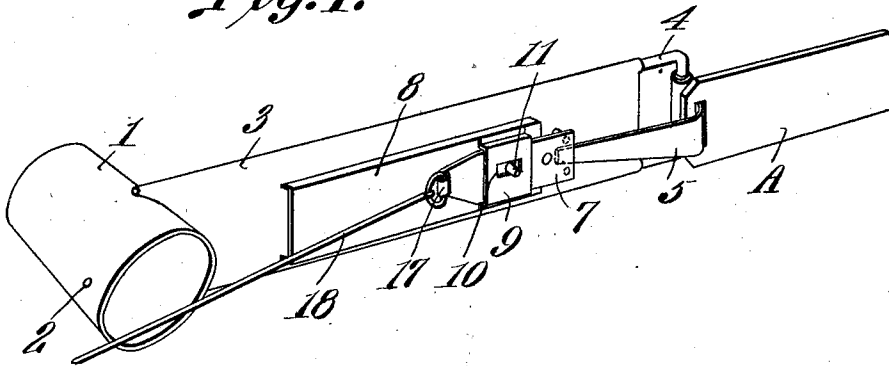


Fig. 2.

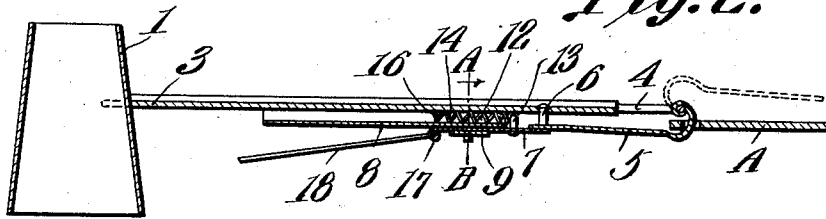


Fig. 3.

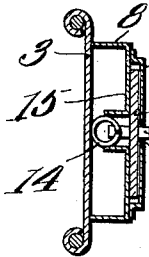
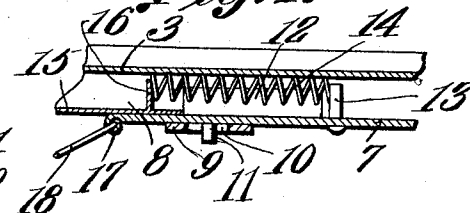


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

ROBERT T. CONNER, OF HORNBECK, LOUISIANA.

HORSE-DETACHER.

1,003,343.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROBERT T. CONNER, a citizen of the United States, residing at Hornbeck, in the parish of Vernon and State of Louisiana, have invented a new and useful Horse-Detacher, of which the following is a specification.

This invention relates to horse detachers and has for its object the provision of a simple form of device of this character which can be placed on the market as an article of manufacture and readily applied to a swingletree, the said detacher including means for engaging a trace and means for releasing the trace whenever desired.

A further object is to provide a device of this character which is simple in construction, can be readily applied, and which will quickly free the trace whenever desired and without danger of the trace becoming caught thereon.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawing:—Figure 1 is a perspective view of the attachment, a trace being shown and secured in engagement therewith. Fig. 2 is a longitudinal section through the parts shown in Fig. 1. Fig. 3 is an enlarged section on line A—B Fig. 2. Fig. 4 is an enlarged longitudinal section through a portion of the attachment.

Referring to the figures by characters of reference 1 designates a ferrule adapted to be placed upon the end of a swingletree and to be secured thereto in any desired manner, as by means of a bolt or the like inserted through an opening 2 therein. An arm 3 is extended from the ferrule and is perpendicular to the axis thereof, this arm being provided, at its free end, with a loop 4 on which is pivoted the crooked end of a lever 5. The free end of this lever is movable between guide studs 6 outstanding from the arm 3 and, when located between the studs, is adapted to be lapped and retained by one

end of a slide 7. This slide is movably mounted on an outstanding portion 8 formed on one face of the arm 3 there being a guide strap 9 upon said outstanding portion and within which the slide is mounted. A longitudinal slot 10 is formed within this strap and receives a stud 11 outstanding from the slide. A slot 12 is formed longitudinally within that portion of the outstanding portion 8 which is bridged by the strap 9 and this slot receives a stud 13 projecting from the slide 7. Said stud bears against one end of a spring 14 which is housed within the outstanding portion 8 and is mounted between longitudinal flanges 15 struck from the outstanding portion 8 and bears at one end against a stop ear 16 likewise struck from said portion. One end of the slide 7 has a hook 17 to which an actuating cord 18 or the like is connected.

As has been heretofore stated, the device herein described is designed to be placed upon the market as an attachment for swingletrees ordinarily used. In applying the attachment to a swingletree, the ferrule 1 is placed upon the end of the swingletree and secured thereto. The trace, which has been indicated at A, is then placed in engagement with lever 5 and said lever swung so as to bring its free end between the guide studs 6. In order to bring the lever to this position, it is necessary to move the slide 7 back by pressing on the stud 11. This results in the contraction of spring 14. As soon as the lever has been properly positioned the stud 11 can be released and the spring 14 will promptly return the slide to its normal position so as to lap the lever and hold it in engagement with the trace. Whenever it is desired to quickly detach the trace from the swingletree, it is merely necessary to pull on the cord 18. It will cause slide 7 to move longitudinally away from the lever 5 thus releasing the lever. The pull exerted on the lever through trace A will thus cause the lever to swing to the position shown by dotted lines in Fig. 2, whereupon the trace will be free to slip off of the lever.

It is to be understood that one of these attachments is to be applied to each end of a swingletree.

What is claimed is:—

A swingletree attachment including a ferrule, an arm extending therefrom and having a terminal loop, a lever having a curved

end portion pivotally mounted upon the loop
and constituting trace engaging means, a
guide upon the arm, a slide therein, a spring
housed within the guide for holding the
5 slide normally in engagement with the free
end portion of the lever, means upon the
arm for holding the lever end centered back
of the slide, coöperating means upon the
slide and guide for limiting the movement of
10 the slide, and means for shifting the slide

against the action of its spring to release the
free end of the lever.

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

ROBERT T. CONNER.

Witnesses:

W. R. OWERS,

N. B. OWERS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
