(No Model.)

T. W. LAMBERT.

HORSE DETACHER.

No. 332,257. Patented Dec. 15, 1885.

Fig. 1.

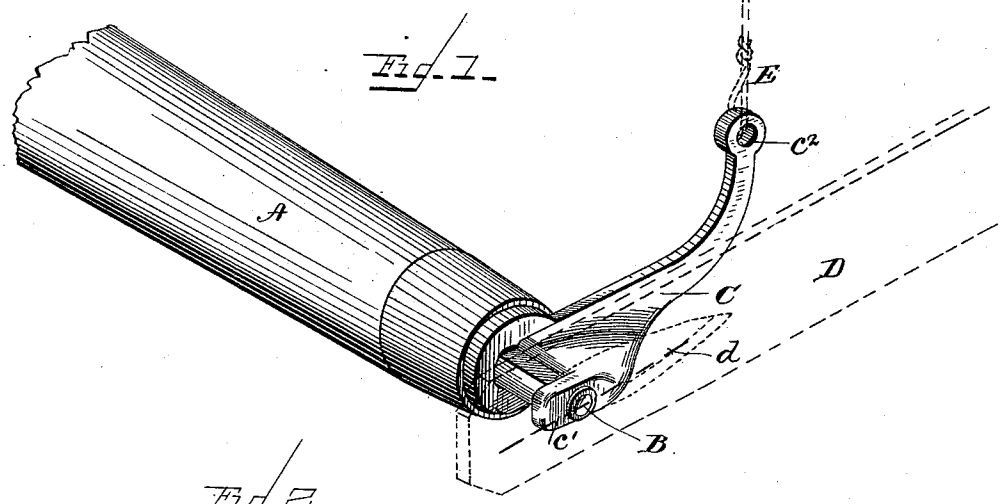

Fig. 2.

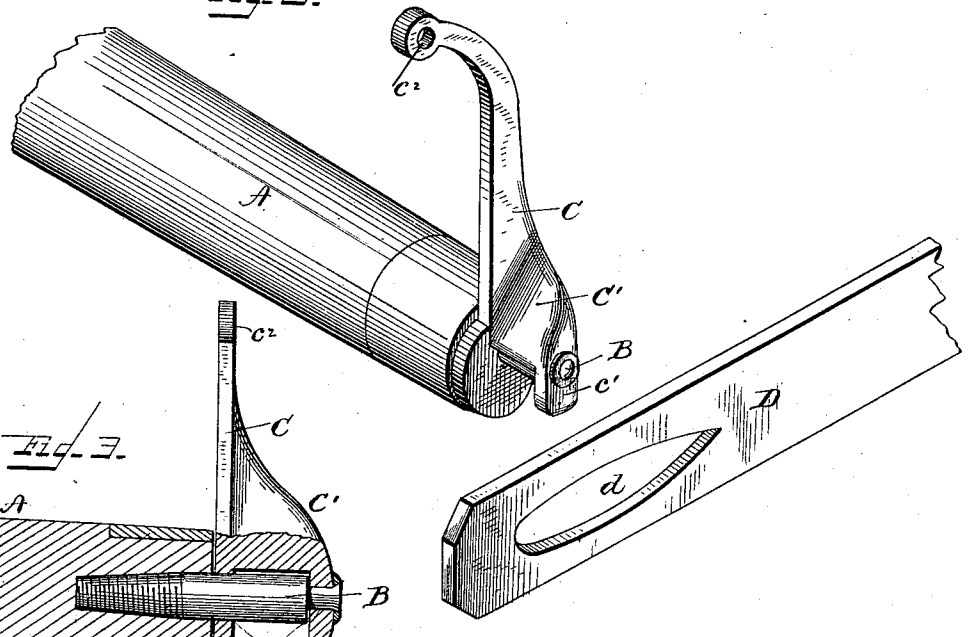

Fig. 3.

WITNESSES
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THOMPSON W. LAMBERT, OF AVIS, VIRGINIA.

HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 332,257, dated December 15, 1885.

Application filed May 19, 1885. Serial No. 165,984. (No model.)

To all whom it may concern:

Be it known that I, THOMPSON W. LAMBERT, a citizen of the United States, and a resident of Avis, in the county of Augusta and State of Virginia, have invented certain new and useful Improvements in Horse-Detachers; 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.

My invention has relation to horse-detachers; and it has for its object the construction of a device of the above-mentioned class which shall be exceedingly effective in its operation, while at the same time it is simple in construction and inexpensive to manufacture.

To these ends my invention consists in the improved construction and combination of parts of a horse-detacher, which will be hereinafter fully described, and particularly pointed out in the claims.

Referring to the annexed drawings, Figure 1 is a perspective view of one end of a single-tree provided with my improved horse-detacher, showing the same in its normal position. Fig. 2 is a perspective view of the same, showing the detacher-block elevated in order to free the end of the trace; and Fig. 3 is a sectional view taken on the plane indicated by line *x x*, Fig. 1.

The same letters of reference indicate corresponding parts in all the figures.

Referring to the several parts by letter, A represents the single-tree, one end of which is here shown, and which is provided with the pin or pivot-bolt B, which serves to secure the detacher-block C in its operative position.

C represents the detacher-block, which is provided with the aperture *c*, through which the pin B passes, and is cut away at its rear end, as shown, to form the rearwardly-projecting wing *c'*, extending in line with the main portion of the detacher-block, and which serves to prevent the end of the trace from slipping off of the end of the single-tree when the detacher-block is in its normal position. The forward outer side of that portion of the detacher-block which lies in front of the said wing *c* is beveled or inclined, as shown, so as to leave the inclined wedge-shaped outer portion, C', the forward end of the detached block being extended and curved upwardly and provided with an aperture, c^2, for the attachment of one end of the cord or strap E, which extends up into the vehicle, and by means of which the detacher-block is operated by the driver.

In operation the end of the trace D, which is provided with a suitable slot, *d*, is connected to the end of the single-tree by slipping the said perforated or slotted end of the trace over the wing *c'*, the lower side of the detacher-block being flattened to adapt it to fit smoothly against the lower side of the slot *d*. When it is desired to detach the traces from the ends of the single-tree, the driver pulls upon the cord or strap E, which elevates the forward free end of the detacher-block and turns the said block upward for about one-fourth of a revolution, or farther, if necessary, when the inclined wedge-shaped portion of the said block, acting upon the upper side of the slot in the rear end of the trace, works or screws the end of the trace out until it is free of the block, the wing *c'* being turned under out of the way by this partial revolution of the detacher-block, as shown in Fig. 2 of the drawings. The detacher-block turns on the pin B with sufficient looseness to enable it to adapt itself to the movements of the trace—that is to say, if the trace becomes slackened the weight of the detacher-block will cause it to swing downward sufficiently to keep its flat lower side bearing upon the lower side of the slot in the rear end of the trace and the wing *c'* in line with the rear extremity of the trace, this arrangement effectually preventing all possibility of the end of the trace working off of the said block.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of my improved horse-detacher will be readily understood without requiring further explanation.

It will be seen that my detacher is exceedingly simple in construction, being entirely devoid of all springs or complicated mechanism which would be liable to break or get out of order, while at the same time it is very efficient in its operation, as the inclined wedge-shaped portion of the detacher-block serves to

work or screw the end of the trace clear of the said block in the manner described and shown.

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

1. As an improvement in horse-detachers, the combination, with the pivot-pin, of the detacher-block having the rearwardly-extending wing and the inclined wedge-shaped portion, adapted to operate in the manner set forth.

2. As an improvement in horse-detachers, the combination, with the pivot-pin, of the detacher-block having the rearwardly-extending wing, the flat lower side, the inclined wedge-shaped portion, and the upwardly-curved forward end, to which the operating cord or strap is attached, as set forth.

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

THOMPSON W. LAMBERT.

Witnesses:

ROBERT B. LAMBERT,

JOHN E. GARNER.