

A. OHLSON.
Horse-Detacher.

No. 227,821.

Patented May 18, 1880.

Fig. 1.

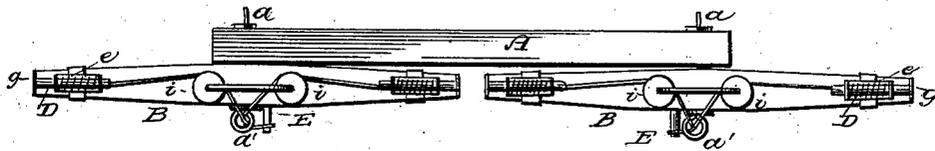


Fig. 2.

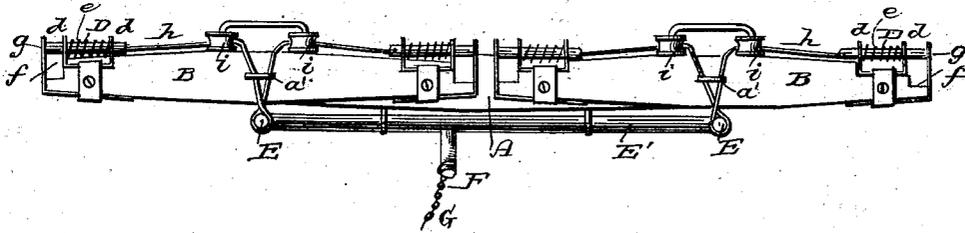
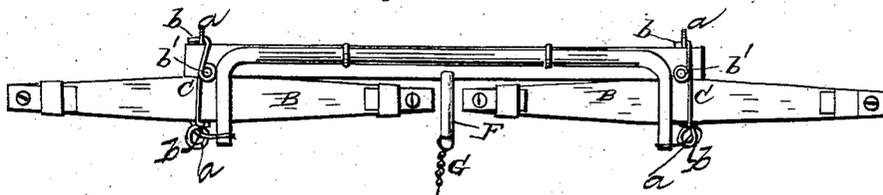


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

ANDREW OHLSON, OF CANTRALL, ILLINOIS.

HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 227,821, dated May 18, 1880.

Application filed February 20, 1880.

To all whom it may concern:

Be it known that I, ANDREW OHLSON, of Cantrall, in the county of Sangamon and State of Illinois, 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, and in which—

Figure 1 is a front elevation (upside down) of a double-tree embodying my invention. Fig. 2 is a top or plan view of the same; and Fig. 3 is a rear elevation, upside down.

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

This invention has relation to devices for the instantaneous detachment of the traces by which the team is hitched to a vehicle, and thus prevents runaway accidents; and it consists in the detailed construction and arrangement of operating parts of a device of this class; substantially as hereinafter more fully set forth.

In the drawings, A is the double-tree, and B B the single-trees, which are pivoted upon each end of the double-tree by bolts *a a*, inserted through the eyes *b b b b*, as seen in Fig. 3, of brace-loops C C, consisting each of a rod bent to overlap the middle of the single-tree and the end of the double-tree with their upper and under eyes *b b*, through which bolt *a* is inserted. Each of the brace-loops C is twisted to form an additional eye, *b'*, on its back part, where it bears against the rear side, near the end of the double-tree, for the double purpose of preventing the brace from chafing or cutting into the wood of the tree and giving it sufficient spring or elasticity to hold the bolts *a a* firmly in their place.

The two single-trees being exactly alike in construction and operation, a description of one will suffice for both.

It is provided at each end with sliding bolts

D D, working in bearings *d d d d*, secured by clips or bolts upon the front side of the tree, and operated by coiled springs *e e*, encircling the bolt between its bearings. The extreme ends of each of the single-trees are cut away or recessed, as shown at *f f*, to make room for the insertion of the traces, which are inserted, one at each end, between the outer bearing of bolt D and a parallel projecting perforated arm, *g*, which receives the end of the trace-bolt. Thus by withdrawing the bolts the traces are released.

The withdrawal of the bolts is effected by cords or chains *h h*, secured in the inner ends of the bolts, and passing over sheaves *i i*. The chains are inserted through the eyes *a' a'* of the pivot-bolts *a a*, and fastened to the bent arm E of a rod, E', hung in staples back of the double-tree and operated by a lever, F, and connecting cord or chain G, the end of which is within convenient reach of the driver.

By pulling cord G the bolts are withdrawn instantly and simultaneously from the traces in both single-trees, thus severing the connection between the runaway team and the vehicle.

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

The combination of the double-tree A, provided with the hinged rod E', having arms E and lever F, bolts *a a*, having eyes *a' a'*, brace-loops C, having eyes *b b b*, and single-trees B B, provided each with sliding spring-bolts D D, sheaves *i i*, and operating cords or chains *h h*, passing over said sheaves and inserted through the eyebolts *a' a'*, all constructed and combined to operate substantially in the manner and for the purpose herein shown and described.

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

ANDREW OHLSON.

Witnesses:

DAVID G. JENS,
ROBT. COUNCIL.