

(No Model.)

L. ANDERSON.

TRACE LOCK FOR HARNESS.

No. 385,223.

Patented June 26, 1888.

Fig. 1.

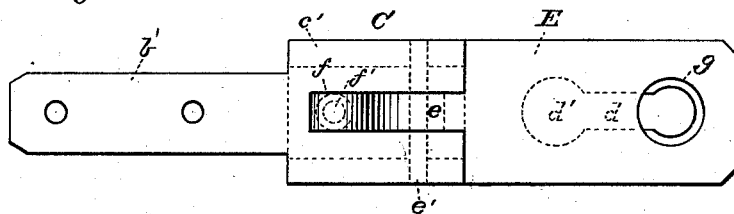
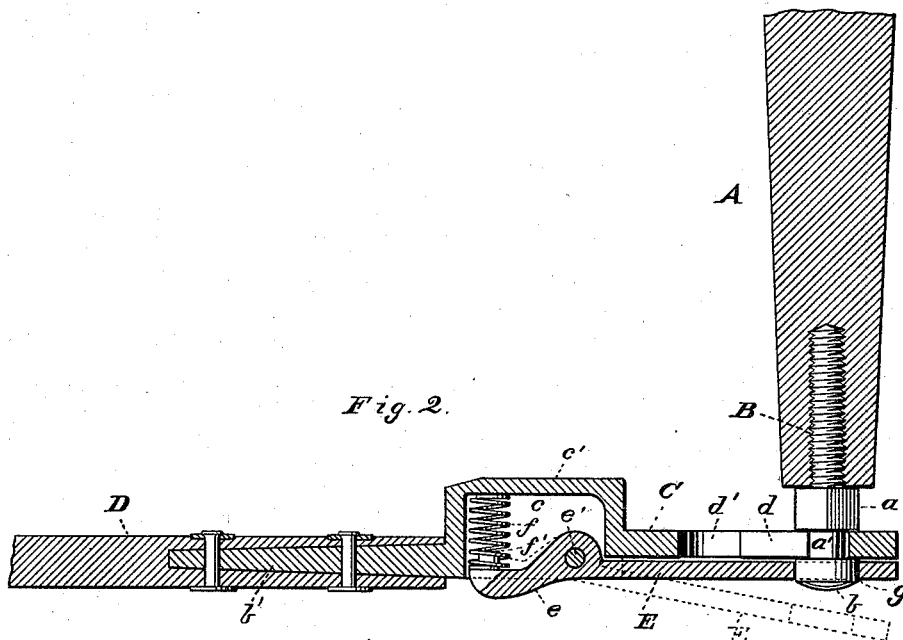


Fig. 2.



WITNESSES.

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UNITED STATES PATENT OFFICE.

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TRACE-LOCK FOR HARNESS.

SPECIFICATION forming part of Letters Patent No. 385,223, dated June 26, 1888.

Application filed April 18, 1888. Serial No. 271,009. (No model.)

To all whom it may concern:

Be it known that I, LEE ANDERSON, a citizen of the United States, and a resident of Paris, in the county of Lamar and State of Texas, have invented certain new and useful Improvements in Trace-Locks for Harness; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a portion of this invention, and is an outside view. Fig. 2 is a horizontal section, showing the whole invention with a portion of the trace and a portion of the singletree.

The invention relates to improvements in trace-locks for harness; and it consists in the construction and novel combination of parts, as hereinafter set forth.

Referring to the drawings, A designates a portion of a singletree, and B is a threaded bolt seated in the end thereof. The bolt B is provided at its outer end with the enlarged portion *a*, (which may be round or angular,) the shank *a'*, and the head *b*, rounded on its outer side.

C is a metal strap, having its tang *b'* secured to the trace D by rivets or otherwise, and provided at its opposite end with the slot *d*, having the enlarged opening *d'*.

The strap C, at its end adjacent to the trace, is longitudinally recessed, as at *e*, and said recess extends into the projection *e'*, which is integral with one side of the strap, as shown.

E is the locking-plate, the tang *e* of which is pivoted in the recess *e*, as shown at *e'*. A coiled spring, *f*, surrounds a lug, *f'*, on the end of the tang *e* within the recess *e*, its opposite end bearing on the inner wall of said

recess. The spring *f* is designed to hold the locking-plate against the metal strap C. The round opening *g*, near its outer end, engages the head portion of the bolt B, holding the shank *a'* at the extreme end of the slot *d*, as indicated in the drawings.

The trace-lock above described is simple and durable. To make the connection with the bolt the head is inserted through the opening *d'*, and by a slight pressure the locking-plate is turned on its pivot, when the narrower portion of the slot may be drawn on the shank of the bolt, and when the head of the bolt has reached the opening *g* it allows the locking-plate to be forced down by its spring.

Having described my invention, what I claim is—

1. In a trace-lock, the combination, with the slotted plate adapted to be secured to a trace, and the locking-plate pivoted thereto, of the bolt B, having the angular portion *a*, the shank *a'*, and the head *b*, rounded on its outer side, substantially as specified.

2. In a trace-lock, the combination, with the singletree and the bolt, of the recessed and slotted metal strap, the locking-plate pivoted to said strap, and the spring, substantially as specified.

3. In a trace-lock, the combination of the bolt B, the metal strap secured to the trace, provided with the recess *e*, the projection *e'*, and the slot *d*, having the enlarged opening *d'*, the locking-plate pivoted on the recess, having the opening *g*, and the spring, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

LEE ANDERSON.

Witnesses:

W. H. ROLAND,
LEWIS CLARK.