

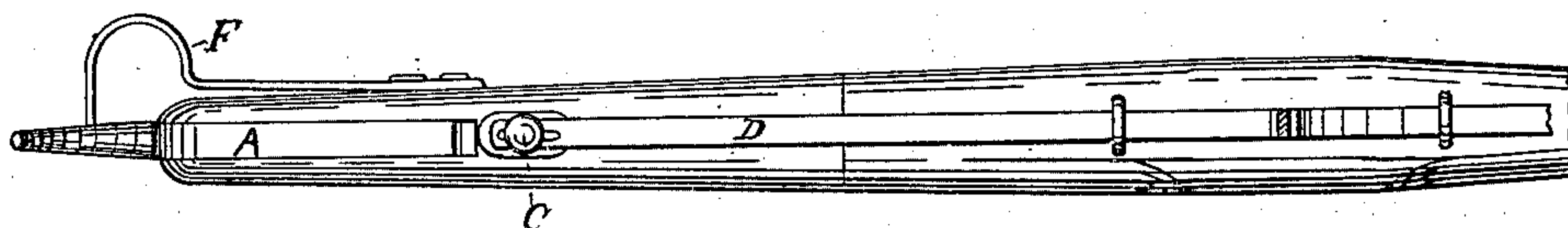
(No Model.)

A. L. NEW.  
SINGLE TREE ATTACHMENT.

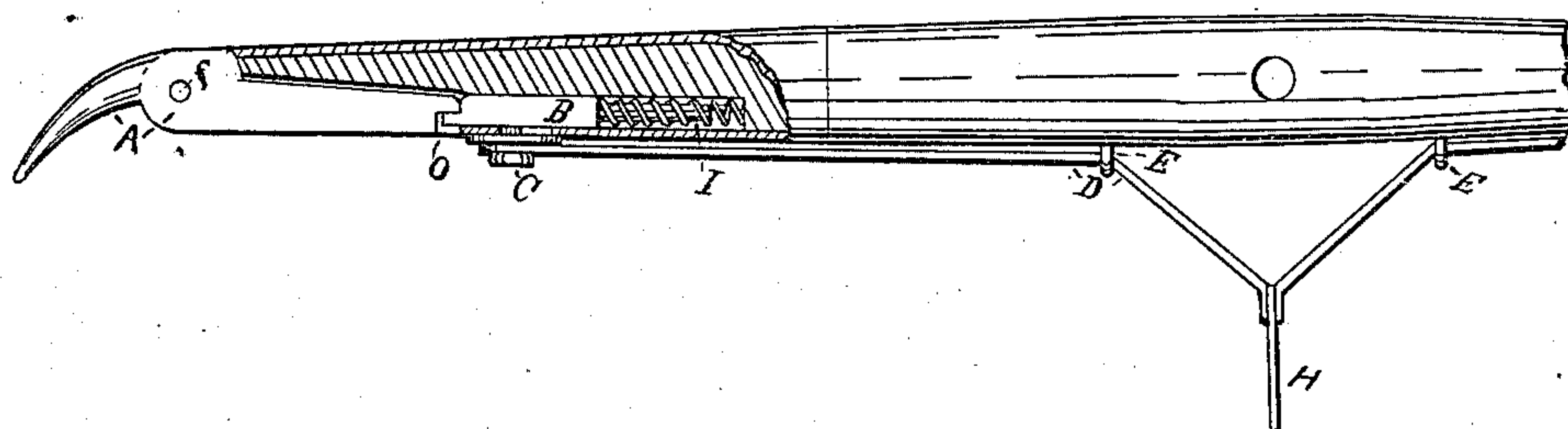
No. 285,503.

Patented Sept. 25, 1883.

*Fig. 2.*



*Fig. 1.*



WITNESSES:

*Will F. Lindley*  
*John W. Jones*

INVENTORS:

*Albert L. New*

# UNITED STATES PATENT OFFICE.

ALBERT L. NEW, OF GREENFIELD, INDIANA, ASSIGNOR OF TWO-THIRDS TO  
JOHN W. JONES AND WILLIAM F. LINDLEY, BOTH OF SAME PLACE.

## SINGLE-TREE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 285,503, dated September 25, 1883.

Application filed May 24, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT L. NEW, a citizen of the United States, residing at Greenfield, in the county of Hancock and State of Indiana, have invented certain new and useful Improvements in Single-Tree Attachments, of which the following is a specification.

My invention relates to an improvement in the attachments to single-trees, the object and purpose of which is to facilitate the releasing of the tug or trace therefrom, and also to retain said tug on said single-tree. I attain this by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a top sectional view of one end of the single-tree, exposing the device by which I accomplish the purpose of my invention as it relates to releasing the tug. Fig. 2 is a rear or back view of single-tree, including the device aforesaid, as the whole appears when in use, including in addition a hold or catch, F, attached to single-tree above or below, so as to prevent the tug from slipping off the single-tree.

Similar letters refer to similar parts throughout.

I call attention to the various parts of my invention as they appear lettered in the two figures of the annexed drawings.

Beginning at the end of the single-tree, I cut on the back part thereof a slot or mortise, of width, depth, and length sufficient to receive the parts, as hereinafter described.

A, Fig. 1, is a top view of a metal casting, which is fastened in said slot by means of a bolt or pin, *f*, passing through end of single-tree, upon which said casting revolves to the front, and one end of casting projects out to receive and hold the tug. The other end passes back in said slot, where it is held, as hereinafter explained, at O, Fig. 1. A rear view of this casting is seen at A, Fig. 2, in position. At end of casting A—that is, at O, Fig. 1—I fit in said slot a key or slide, B, the purpose of which is, by means of a bite at O, to hold casting A in said slot until released, as hereinafter explained. At and on the opposite end of this key or slide B, I arrange a

coiled spring, I, one end of which fits against a shoulder on said key or slide, and the other end fits against the rear end of said slot or mortise. A lug, C, is attached to key or slide B, Fig. 1, which projects back and beyond the surface of the single-tree. To this lug at said surface I attach a strap-wire or other device, D, and extend same along the back of single-tree to a point near the middle thereof, where I pass same through staples E E, Fig. 1, after passing through which the straps or device used from both ends unite at H, said figure, and extend thence back to a convenient point for person driving to take hold of. Now, when I wish to release the tugs or traces, I pull this strap H, Fig. 1. This pulls on lug C, which draws back key or slide B, thus releasing casting A at O, and when casting A is thus released the tug, pulling on outer end thereof, causes it to instantly revolve to the front on bolt or pin *f*, when tug slips off, thus unhitching horse.

Coiled around the rear end of key or slide B, I fix a spring, I, Fig. 1, the purpose of which is to hold said key or slide B over casting A at O, excepting when it is forced back by pulling strap H.

At and on top of Fig. 2 is a curved spring, F. This I so make and attach to single-tree near the end as to hold trace or tug on the end of single-tree, except either as it is raised with the hand or by the turning of casting A on pin *f* to the front, as herein described. The spring F, Fig. 2, remaining stationary, the tug readily slips off. The devices are exactly similar at each end of single-tree, and by pulling strap H both tugs are released at once.

The utility of my device is readily seen. By its use mishaps from runaway teams are easily avoided, as the person in buggy or wagon has only to pull strap H from his seat in vehicle when horse or team is at once unhitched.

The key or slide B and coiled spring I are concealed in Fig. 2 by a metal ferrule on and over the end of single-tree, projecting back from the end thereof over the said device, a slot being cut in said ferrule on the back part thereof to permit casting A aforesaid to pass and repass into and out of the slot or mortise



in single-tree. This ferrule has another small slot therein to permit lug C to pass out, this slot being lengthened to permit lug C to slide back and forth as strap H is pulled or not, all  
5 as required and explained above.

Having fully described my invention, what I desire to claim and secure by Letters Patent is—

10 A casting, A, fitted in a slot or mortise in the back of and at the end of single-tree, so pivoted in the end of single-tree as to permit

said casting to turn to the front on said pivot, the outer or projecting end of said casting A being a continuous curve without any projection thereon, the inner end thereof extending 15 back in said slot or mortise, all substantially as shown, and in combination with the other parts, as set forth and described.

ALBERT L. NEW.

Witnesses:

JOHN W. JONES,  
WILL. F. LINDLEY.