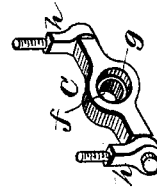
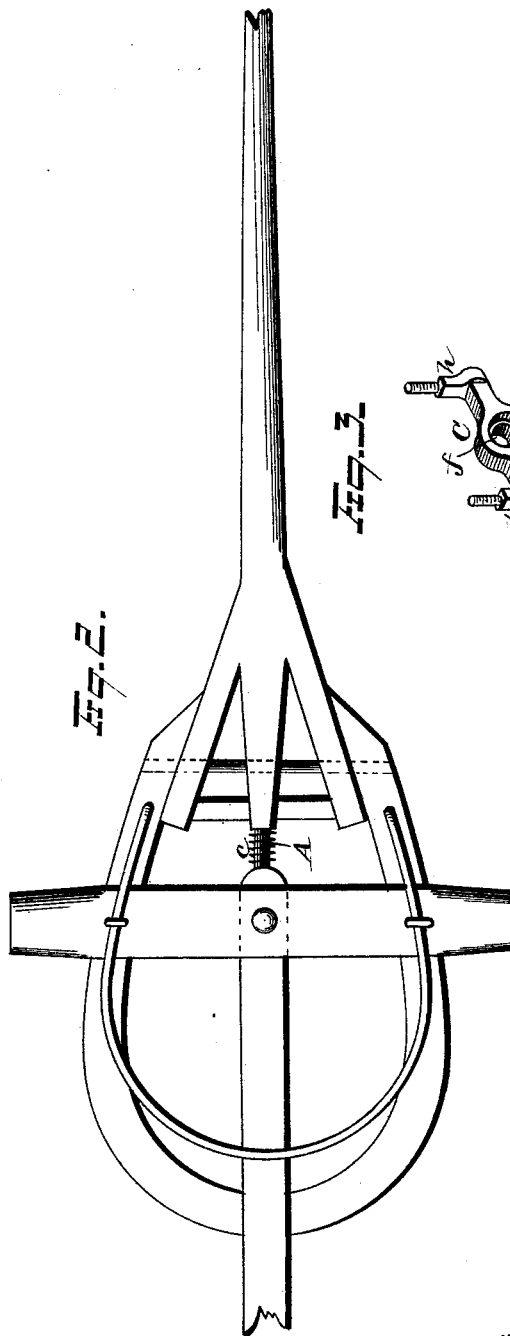
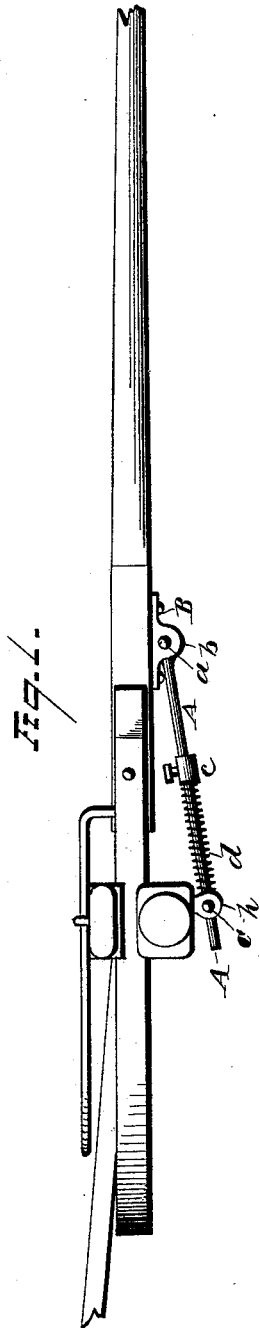


R. N. B. KIRKHAM.
Tongue-Support for Wagons.

No. 220,537.

Patented Oct. 14, 1879.



WITNESSES
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RICHARD N. B. KIRKHAM, OF KANSAS, ILLINOIS.

IMPROVEMENT IN TONGUE-SUPPORTS FOR WAGONS.

Specification forming part of Letters Patent No. **220,537**, dated October 14, 1879; application filed May 16, 1879.

To all whom it may concern:

Be it known that I, RICHARD N. B. KIRKHAM, of Kansas, in the county of Edgar and State of Illinois, have invented certain new and useful Improvements in Wagon-Tongue Supports; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates more especially to that class of supports which maintain a wagon-tongue in adjustable horizontal position by means of a brace which connects, respectively, with the tongue and the axle, said brace being adapted by a spring and adjusting device to hold up the tongue, as desired.

The improvement consists in the combination, with a rod provided with a spiral spring and a set-collar adjustable thereon, of a plate which secures its forward extremity in pivotal engagement to the rear portion of the tongue, and a pivotal plate, through which the rear extremity of the rod has sliding movement, said pivotal plate being connected by eyebolts to the under side of the forward axle, and having its central eye formed with a countersink, in which the corresponding end of the spring fits.

In the drawings, Figure 1 is a view, in side elevation, of the invention. Fig. 2 is a plan view of the same. Fig. 3 represents the pivotal plate in detail.

The rod A is connected at its forward end with the rear portion of the tongue by means of a horizontal pivot, *a*, about which latter

said end is looped, the pivot working in the perforated ears *b* depending from the plate B, which latter is fastened to the tongue.

The set-collar *c* is adjustable upon the rod, and provides end bearing for the forward extremity of the spiral spring *d*, whereby the pressure of said spring may be varied as may be necessary to suitably support the tongue.

The rear extremity of the rod has sliding movement through the central eye, *f*, of the pivotal plate C, and a countersink, *g*, is formed about the forward side of this eye, in which the rear extremity of the spiral spring fits or seats in end bearing. This pivotal plate is connected to the under side of the axle by the two eyebolts *h* depending from the latter.

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

The combination, with the rod provided with the spiral spring and the set-collar adjustable thereon, of the plate which secures its forward extremity in pivotal engagement to the tongue, and the pivotal plate provided with a central eye, in which the rear extremity of the rod has sliding movement, said pivotal plate being formed with a countersink, in which the end of the spring fits, and being connected to the under side of the axle by eyebolts depending from the latter, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 13th day of May, 1879.

RICHARD N. B. KIRKHAM. [L. s.]

Witnesses:

G. H. HOGUE,
W. W. BARR.