

D. D. ROBINSON.  
Wagon Tongue Support.

No. 107,546.

Patented Sept. 20, 1870.

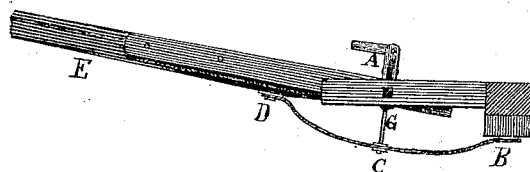


FIG. 1.

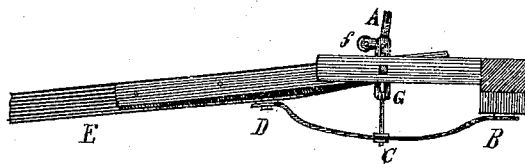


FIG. 2.



FIG. 3.

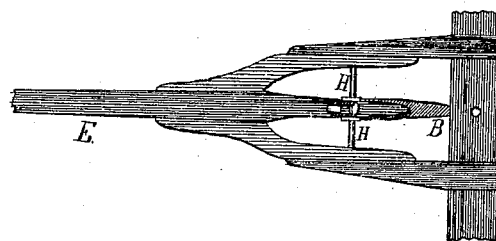


FIG. 4.



FIG. 5.

WITNESSES -

*Perley Hale, Jr.*  
*Gilbert Hart*

INVENTOR -

*Dupontal D Robinson*

# United States Patent Office.

DUPORTAL D. ROBINSON, OF NILES, MICHIGAN.

*Letters Patent No. 107,546, dated September 20, 1870.*

## IMPROVEMENT IN WAGON-TONGUE SUPPORTS.

The Schedule referred to in these Letters Patent and making part of the same

I, DUPORTAL D. ROBINSON, of Niles, in the county of Berrien and State of Michigan, have invented certain Improvements in Wagon-tongue Supports, of which the following is a specification.

My invention relates to the combination of levers with the tongue and axle-tree, in such a manner as to sustain the tongue in an elevated position, or permit of its being lowered at pleasure, the object of which is to relieve the horses from bearing the weight of the tongue on their necks.

In the accompanying drawing—

Figure 1 is a side elevation of a wagon-tongue held in an elevated position by a support of my invention.

Figure 2 represents the position of the support when the tongue is lowered.

Figure 3 is a top view of the bar or lever B D.

Figure 4 is a plan of the tongue and support.

Figure 5 is a front view of the connecting-rod G.

A is an eccentric lever, acting on the tongue over

the major-bolt H, and serving to raise the connecting-rod G, which, being secured to the bar B D, at C, raises said bar at its center, and forces the end D up, raising the tongue thereby and sustaining it, while the end B of the bar is pressing up against the axle-tree.

f is a friction-wheel in one arm of the lever A.

### Claim.

I claim as my invention—

The combination of the eccentric lever A, or its equivalent, with the connecting-rod G and the bar B D, substantially in the manner and for the purpose above set forth.

DUPORTAL D. ROBINSON.

Witnesses:

PERLEY HALE, Jr.,  
GILBERT HART.