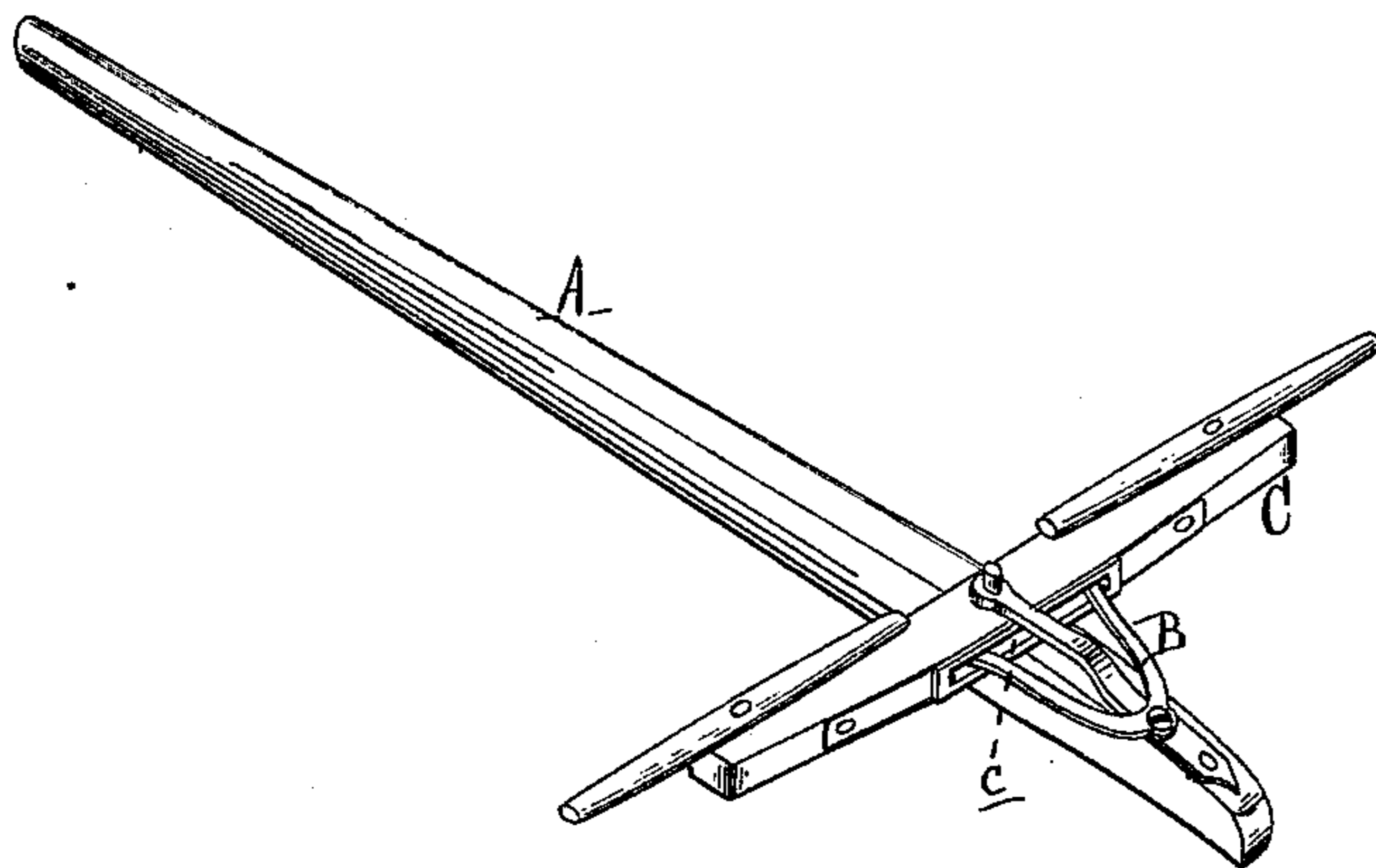


J. D. LANE.

WHIFFLETREE ATTACHMENT.

No. 189,474.

Patented April 10, 1877.



Attest:
Edward Barthel.
Rudolf Lahr.

Inventor:
J. D. Lane.
By Atty
Thos. S. Sprague

UNITED STATES PATENT OFFICE

JONATHAN D. LANE, OF ONONDAGA, MICHIGAN.

IMPROVEMENT IN WHIFFLETREE ATTACHMENTS.

Specification forming part of Letters Patent No. **189,474**, dated April 10, 1877; application filed January 13, 1877.

To all whom it may concern:

Be it known that I, JONATHAN D. LANE, of Onondaga, in the county of Ingham and State of Michigan, have invented a new and useful Improvement in Eveners; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, and being a part of this specification, in which my invention is shown in perspective.

The object of my invention is to prevent the too great play of the evener or double-tree on the pole of a wagon; and it consists in the use of a vibrating curved iron bar or brace attached to the tongue of the carriage, the ends of which work in slots in an iron bar fastened on the back or rear side of the double-tree.

In the drawing, A represents the tongue or pole of a wagon, to which is attached, near its rear end, the vibrating curved brace B. Its two free ends engage with the evener or double-tree C by means of the slots *c*.

For greater security and strength these slots should be made in a bar or plate of iron, attached to the rear side of the evener, and should be long enough to allow of some play or vibration of the evener, but not so long as

to allow the whiffletree or the evener to rub against the wheels.

So long as the horses pull equally the vibrating brace is at rest, but as soon as the horses pull unevenly the evener B is drawn forward on one side and falls back on the other. As soon as this occurs the ends of the vibrating brace slide along the slots *c* until the end of the brace on the side of the evener, which is going backward, rests against the outer end of the slot, and the further falling back of the evener is prevented. The horses pulling unevenly will not create any "side draft" or pushing of the tongue to one side when this device is used, and the use of "rub-irons" upon the whiffletrees is dispensed with, as they cannot possibly fall back upon or strike the wheels.

What I claim as my invention is—

The combination, with the pole A and evener C, of the brace B, secured to the pole, with its ends sliding in a slot formed by the plate on the back of the evener, constructed and arranged substantially as and for the purpose set forth.

JONATHAN D. LANE.

Witnesses:

H. S. SPRAGUE,
CHAS. J. HUNT.