

J. PARKER.  
Whiffetrees.

No. 144,786.

Patented Nov. 18, 1873.

Fig. 1.

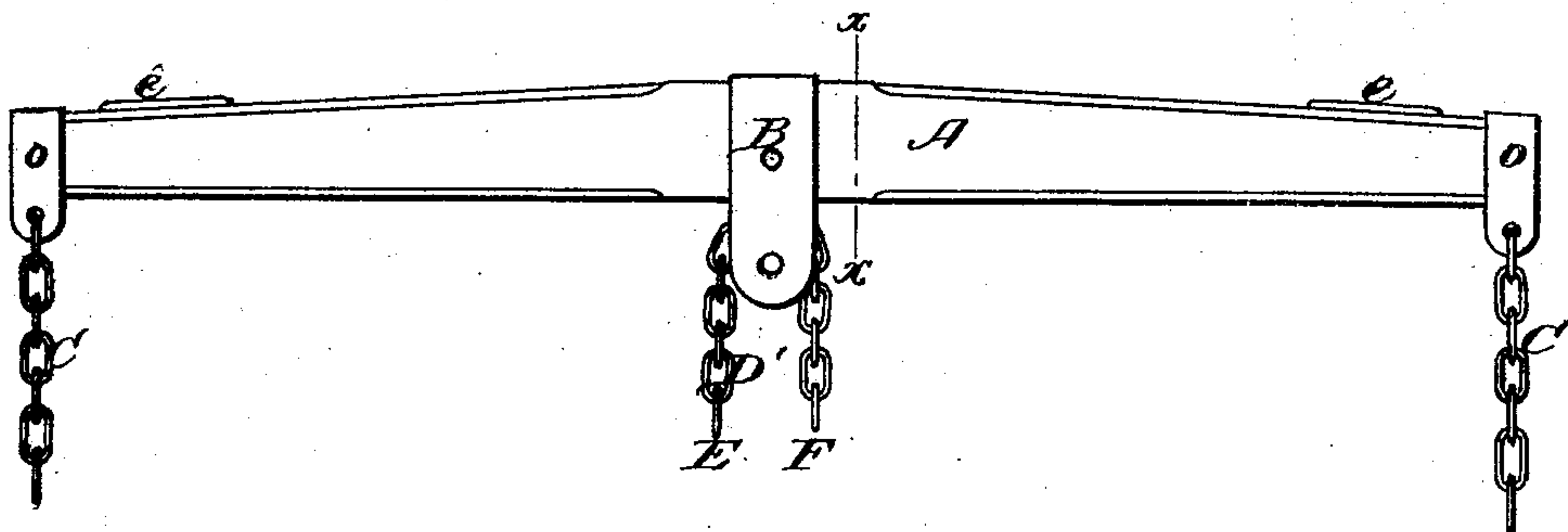


Fig. 2.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOHN PARKER, OF PONTIAC, ASSIGNOR OF ONE-HALF HIS RIGHT TO  
JAMES A. HUBBS, OF CATO, MICHIGAN.

## IMPROVEMENT IN WHIFFLETREES.

Specification forming part of Letters Patent No. **144,786**, dated November 18, 1873; application filed  
September 9, 1873.

*To all whom it may concern:*

Be it known that I, JOHN PARKER, of Pontiac, in the county of Oakland and State of Michigan, have invented a new and Improved Whiffletree; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is a top view of my improved whiffletree; and Fig. 2 is a cross-section of the same through line *x x*, Fig. 1.

Similar letters of reference in the accompanying drawings denote the same parts.

My invention relates to that class of whiffletrees in which draft-chains at the extremities of the whiffletree and a central draft-chain passing around a roller are employed in lieu of single-trees; and it consists in constructing the under surface of the central plate, through which the king-bolt for attaching the whiffletree to the tongue passes, with a shoulder, so that a less portion of the under surface of the plate will be in contact with the tongue than in the ordinary construction, thus dispensing with much of the friction between the whiffletree and tongue in the vibrations of the former on the latter, and at the same time allowing the use of a smaller roller for the central chain than in the ordinary construction.

In the accompanying drawings, A is the whiffletree, provided with plates *o o* at its extremities, to which are attached the draft-

chains C C. B is the central plate, through a perforation in which a king-bolt passes for attaching the whiffletree to the tongue. The lower face, *m*, of the plate B rests upon the tongue, and is formed with a shoulder, *n*, in front of the whiffletree, instead of being made continuous, as in the ordinary construction of this plate. By this construction I am enabled to avoid the friction of the entire lower surface of the central plate upon the tongue, the only friction arising being that between the surface *m* of the central plate against the tongue. I am also enabled by this construction to use a smaller roller, D, for the central draft-chain E F than is used in the central plate, as ordinarily constructed, which renders the construction lighter and equally as effective as the roller ordinarily employed. *e e* are chafing-plates on the rear side of the whiffletree opposite the fore-wheels, to protect the former from injury by the latter.

I claim as my invention—

The whiffletree A, the central plate B nearly encompassing the whiffletree, and having a shoulder, *n*, and the roller D pivoted between the ends of the plate, all combined substantially as described, and for the purpose set forth.

JOHN PARKER.

Witnesses:

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