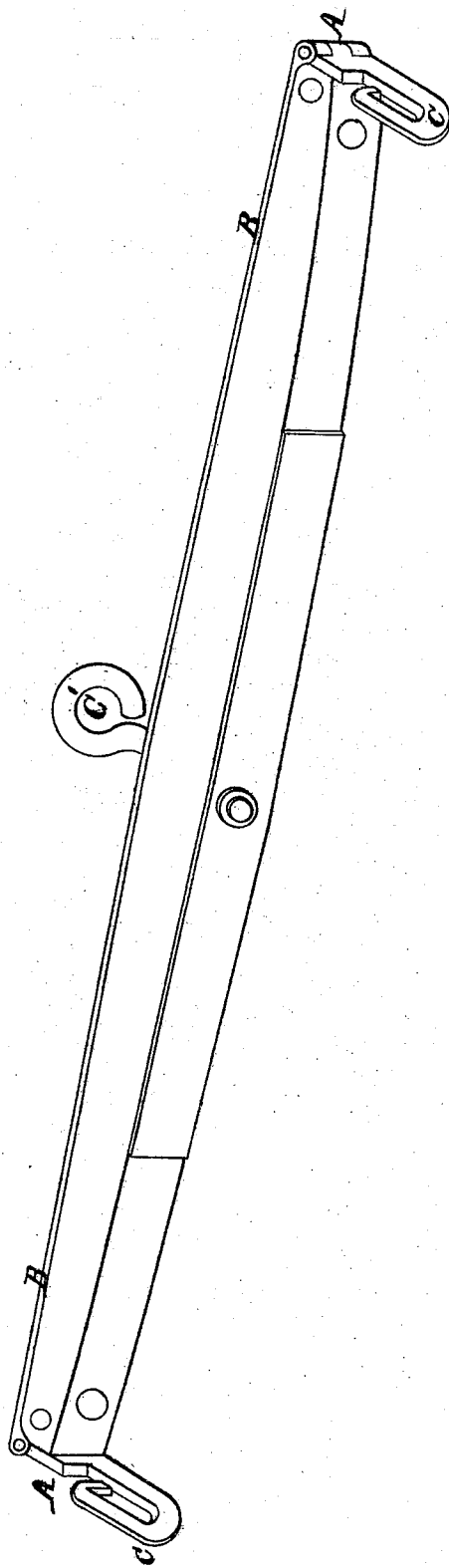


JOSEPH R. AMES.

Whiffletrees.

No. 116,005.

Patented June 20, 1871.



Witnesses.

*Gilbert T. Green*  
*John H. Hingman*

Inventor.

*Joseph R. Ames*

## UNITED STATES PATENT OFFICE.

JOSEPH R. AMES, OF CHEST TOWNSHIP, PENNSYLVANIA.

## IMPROVEMENT IN WHIFFLETREES.

Specification forming part of Letters Patent No. 116,005, dated June 20, 1871.

*To all whom it may concern:*

Be it known that I, JOSEPH R. AMES, of Chest, Clearfield county, Pennsylvania, have invented a new and Improved Mode of Making Irons for Double-Trees and Whiffletrees, and a trace attachment; and I do hereby declare that the following is a full, clear, and exact description of the construction and application and operation of the same, reference being made to the annexed drawing making a part of this specification, in which—

Figure 1 is a perspective view.

The nature of my invention consists in ironing double-trees and whiffletrees with iron plates the width of the thickness of the trees and their full length, with a half hinge at each end, figures A A, and plain plates of similar width in front, B, and riveted in connection with the back plate to the tree—the back plate to add to the general strength, and the front plate to act as a brace to the tree and a base

on which the revolving hook C' is to turn. The trace-hooks (or eyes) C C are inserted in the hinged ends of the back plate, so that they form right angles with the backs of the trees when the traces are even.

I claim as my invention—

1. The revolving hook C', in combination with the whiffletree as constructed, substantially as and for the purposes set forth.

2. The hinged ends A A, in combination with the whiffletree, substantially as and for the purposes set forth.

3. A whiffletree provided with the revolving hook C', irons B B, hinges A A, and hooks C C, all constructed and arranged substantially as and for the purposes set forth.

JOSEPH R. AMES.

Witnesses:

JOHN L. CUTTLE,  
WM. H. NEWCOMER.