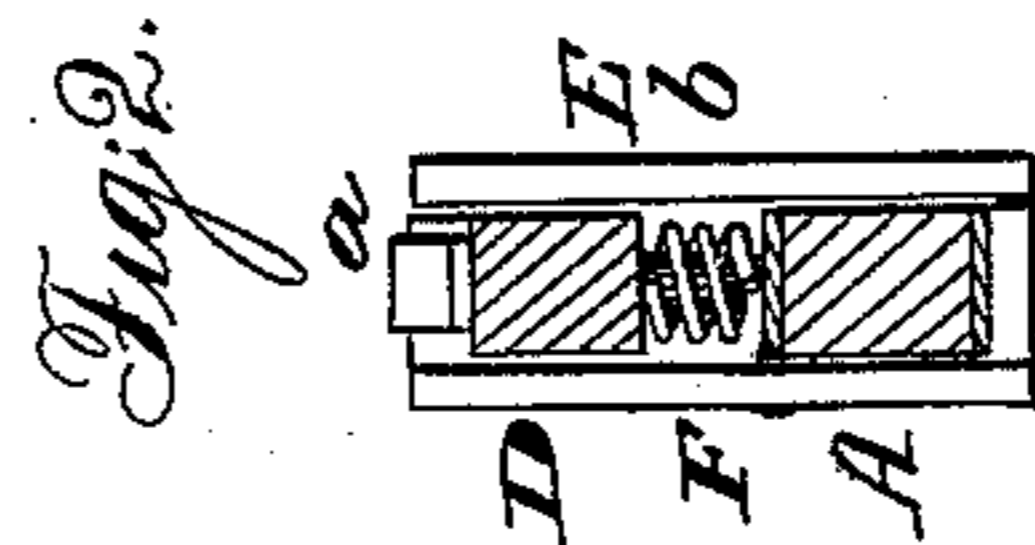
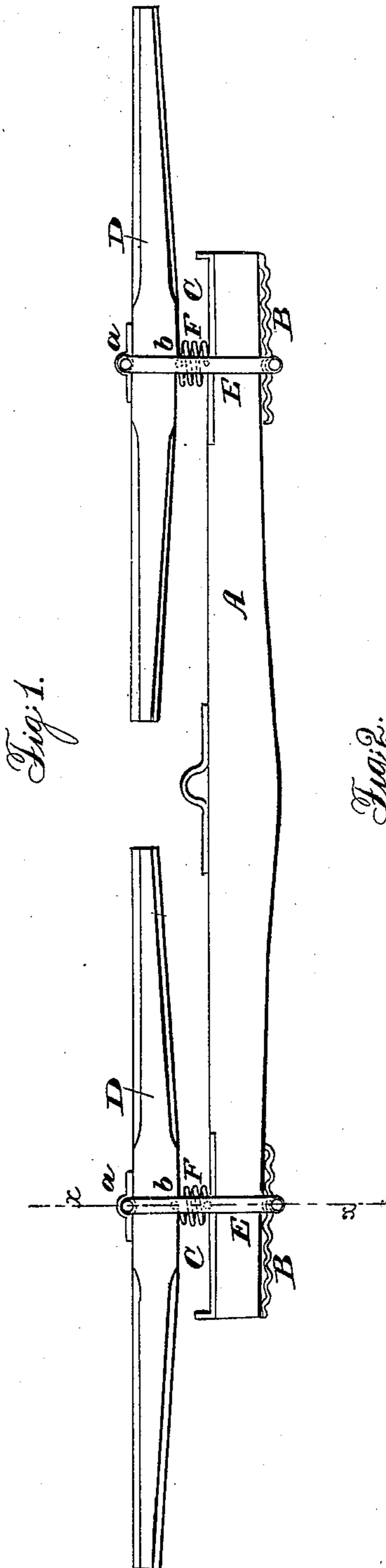


C. MARQUARDT.

Whiffletree.

No. { 3,023. }
 { 34,027. }

Patented Dec. 24, 1861.



Witnesses
J. W. Coombs
A. E. Beach

Inventor
C. Marquardt
By H. W. & Co
Attys

UNITED STATES PATENT OFFICE.

CONRAD MARQUARDT, OF RHINEBECK, NEW YORK, ASSIGNOR TO MARIA L. MARQUARDT, OF SAME PLACE.

IMPROVEMENT IN WHIFFLETREE ATTACHMENTS.

Specification forming part of Letters Patent No. 34,027, dated December 24, 1861.

To all whom it may concern:

Be it known that I, CONRAD MARQUARDT, of Rhinebeck, in the county of Dutchess and State of New York, have invented a new and useful Improvement in Whiffletree Attachments for Two-Horse Vehicles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a plan or top view of my invention; and Fig. 2, a transverse section of the same, taken in the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts in the two figures.

This invention relates to a novel means employed for attaching the whiffletrees to the doubletree, as hereinafter fully shown and described, whereby the whiffletrees may be readily adjusted on the doubletree nearer to or farther from its bolt, and the draft regulated for either horse, as occasion may require.

It is quite frequently the case that one horse of a team is capable of drawing more than the other, and in the ordinary whiffletree attachment the stronger horse pulls against or has a tendency to draw back the weaker one, and the efficiency of the team is greatly reduced thereby.

The object of the within-described invention is to obviate this difficulty, and to this end I have the back edge of the doubletree provided with notches or racks at each end, in which the whiffletree clasps or links are fitted and retained therein by a spring, substantially as hereinafter described.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a doubletree, which may be of the usual form and dimensions, and B B are two racks or notched metal bars, which are secured to the back edge of the doubletree—one near each end—as shown in Fig. 1.

To the front edge of the whiffletree there are attached metal plates C C, said plates being directly in front of the racks B B.

D D represent whiffletrees, which may also be of the usual form and length. Each whiffletree has a link E attached to it near its center. These links are of rectangular form, and they are attached to the whiffletrees by being fitted in eyes or loops *a*, which are secured to the whiffletrees. These links E E are placed on the doubletree, the back ends of the links fitting in the racks B. The links are retained in the racks B B by means of springs F F, which may be of spiral form, and placed on pins *b*, attached to the back edges of the whiffletrees. The springs F bear against the plates C at the front edge of the doubletree and have a tendency to keep the whiffletrees forced outward from the doubletree, and consequently keep the links E in the racks. By this arrangement it will be seen that the whiffletrees may be readily shifted on the doubletree, so that the links may fit in any of the notches of the racks and the draft-connection of either horse regulated as desired. It will be seen that when the vehicle is being drawn along the links E will be retained in the racks by the pull of the whiffletrees, but when the draft movement ceases the springs F perform that function.

The invention is extremely simple and will not augment in an appreciable degree the usual cost of construction.

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

Attaching or connecting the whiffletrees D D to the doubletree A by means of the links E E, racks B B, and the springs F F, arranged substantially as set forth.

CONRAD MARQUARDT. [L. s.]

Witnesses:

H. T. VAN KEUREN,
JOHN R. RYNDERS.