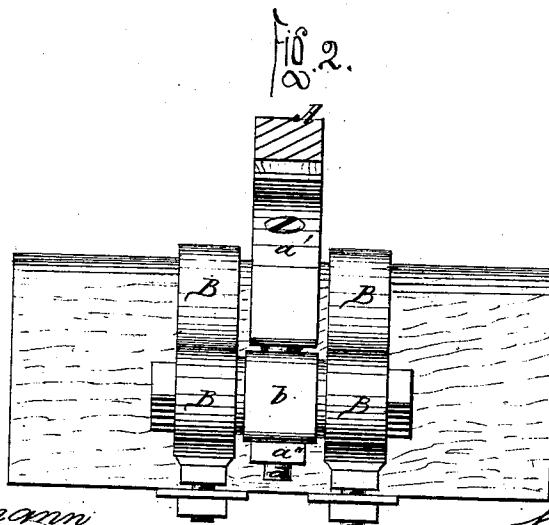
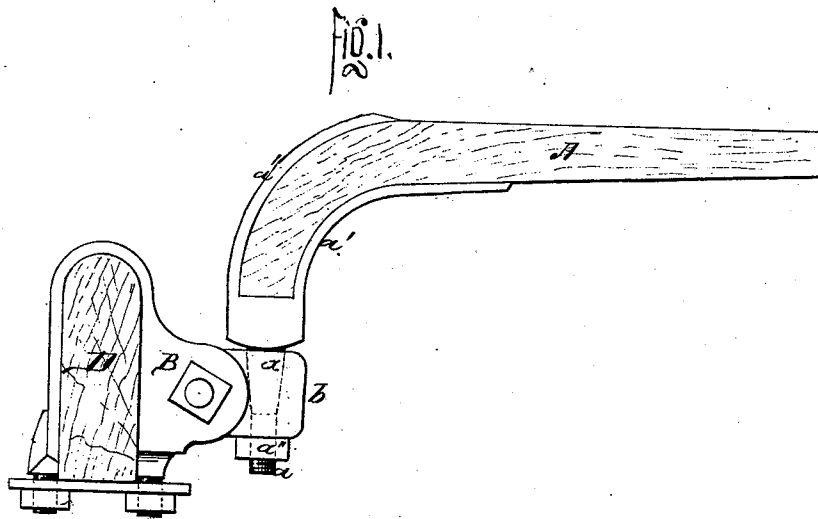


C. FISHER.
CARRIAGE THILL COUPLING.

No. 96,904.

Patented Nov. 16, 1869.



Witnesses:

Victor Haggmann
Chas. F. Pettit

Inventor:

C. Fisher
per Messrs
Attorneys

United States Patent Office.

CYRUS FISHER, OF CANTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF
AND AUGUSTUS G. FISHER, OF NEW YORK CITY.

Letters Patent No. 96,904, dated November 16, 1869.

IMPROVEMENT IN CARRIAGE-THILL COUPLINGS.

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

To all whom it may concern:

Be it known that I, CYRUS FISHER, of Canton, in the county of Norfolk, and State of Massachusetts, have invented a new and useful Improvement in Thill-Couplings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation, and
Figure 2, a front elevation.

This invention has for its object the fastening of the thills of a carriage to its forward axle, so that they can be readily and easily detached, when desired; and

It consists in a strap-bolt, attached to the rear end of each of the thills, and fitting in a hole in a trunnioned block, which is confined between clips on the axle, the said strap-bolt having a screw-threaded end, by means of which and a nut, casual detachment of the thills is prevented.

In the drawings—

A is the thill, having a rear downwardly-curved end, on which is secured a bolt, *a*, by means of straps *a'*, cast solid with the bolt, and screwed to the thill.

B B are the clips, placed on the axle D, and supporting the horizontal rocker-shaft or trunnioned block *b*, which is provided with conical-ended trunnions, and through which is made a perpendicular hole, for the reception of the strap-bolt *a*, which, after occupying the orifice in the trunnioned block, is fastened in place by simply screwing a nut, *a''*, upon its lower threaded end.

On unscrewing the nut, the thill may be readily removed.

Thus the thill is attached and removed without disturbing any of the other parts of the coupling-apparatus.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The combination and arrangement of the separate clips B B, trunnioned block *b*, having conical-ended trunnion, and strap-bolt *a'*, all constructed and operating in the manner and for the purpose specified.

CYRUS FISHER.

Witnesses:

BENJ. LEAVITT,
O. F. HARD.