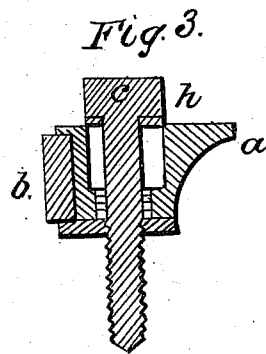
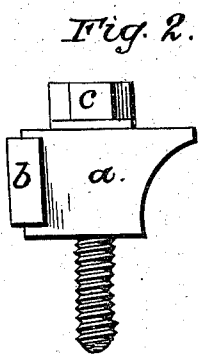
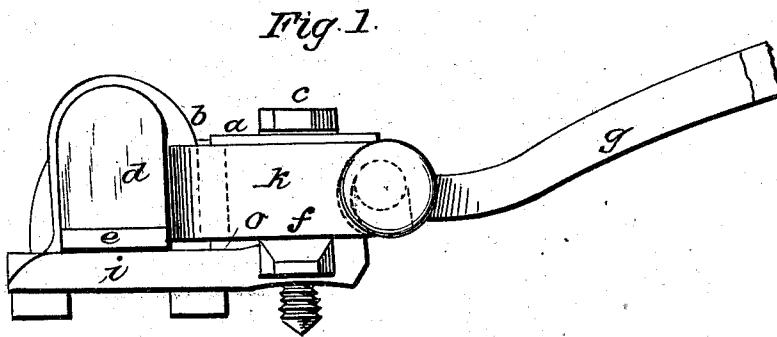


R. PYLE.
Thill Coupling.

No. 83,546.

Patented Oct. 27, 1868.



Witnesses
Henry J. Dine
James C. Moore

Inventor:
Robert Pyle

United States Patent Office.

ROBERT PYLE, OF WILMINGTON, DELAWARE.

Letters Patent No. 83,546, dated October 27, 1868.

IMPROVEMENT IN THILL-COUPLING.

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, ROBERT PYLE, of the city of Wilmington, in the county of New Castle, and State of Delaware, have invented a new and useful Improved Coupling for Carriage-Thills; 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 annexed drawings, making a part of this specification, in which—

Figure 1 is a side view of the coupling;

Figure 2, a side view of the die, with its screw-bolt; and

Figure 3, a section through the centre of the die.

The nature of my invention consists in providing the ordinary clip used in thill-couplings with a die, which is so constructed that, when set in its place, between the jaws of the clip, and fastened by means of a screw-bolt, it presses firmly against the eye of the thill-iron, and prevents the pin, which holds the shaft or pole in place, from turning, and also keeps the fastenings from rattling.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct the clip for holding the thill in the ordinary manner, and so lengthen the tie-iron *i* as to finish with a cross-bed, *f*, for receiving the screw-bolt *c*, which keeps the die *a* in place. This die *a*, which is the main feature of my invention, is made with one face to fit the curved head of the thill-iron *g*, and its corresponding end or face is grooved, for receiving the leather washer *b*, which causes the die to bind upon the inner face of the clip *k*, and in its centre is a slotted open-

ing, *h*, which receives the screw-bolt *c*, and permits its free play in settling in place.

I also set another washer in the bed of the clip, at *o*.

The thill-iron *g*, I finish with a slotted end or the ordinary eye, and couple it to the clip-iron, by means of a pin, as all such irons are fastened.

The die *a*, when set in its place, and made secure by means of the screw-bolt *c*, wedges against the clip-iron *k* and the head or end of the thill-iron *g*, and prevents the coupling-pin from turning in the eye of the thill-iron *g*, or the rattling of any part of the fixture.

The shafts or pole can be readily uncoupled, by a few turns of the screw-bolt *c*, the slotted eye or head of the thill-iron *g* permitting the immediate disconnection.

Where the solid eye is used, the nut upon the head of the connecting-pin must be removed, in order to draw the shafts or pole out, in disconnecting them from the clip-iron.

I do not claim the clip-iron in itself, as it is nothing new; but

What I claim as my invention, and desire to secure by Letters Patent, is as follows:

1. The die, as constructed, in combination with the bolt and washers, as shown and described,
2. The combination of the die *a* and screw-bolt *c* with the clip-iron *k*, tie-iron *f*, and thill-iron, with an eye or hooked end, constructed and operating in the manner and for the purpose substantially as herein shown and described.

Witnesses:

HENRY F. DUN,
JAMES MOORE.

ROBERT PYLE.