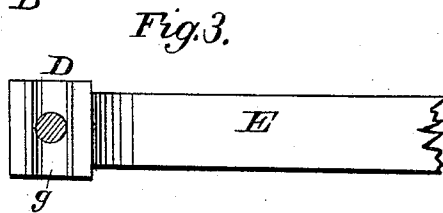
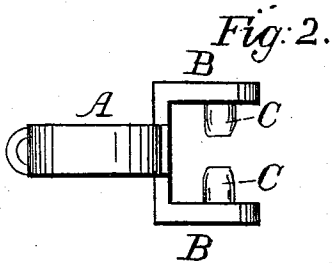
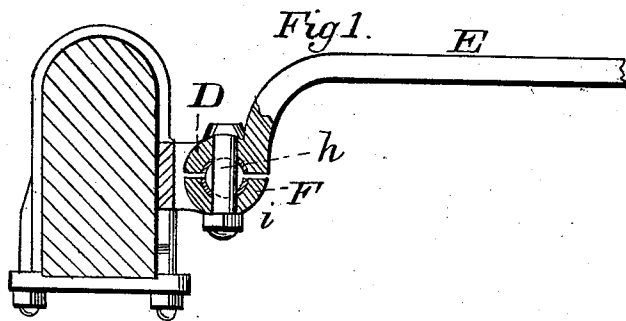


R. M. GARRETTSON.

Thill Coupling.

No. 85,923.

Patented Jan. 19, 1869.



Witnesses.
Amos Morgan
W. B. Leighton

Inventor.
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per *Munroe*
Attorneys

United States Patent Office.

RUTLAND M. GARRETTSON, OF SAG HARBOR, NEW YORK.

Letters Patent No. 85,923, dated January 19, 1869; antedated January 2, 1869.

IMPROVED 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, RUTLAND M. GARRETTSON, of Sag Harbor, in the county of Suffolk, and State of New York, have invented a new and useful Improvement in Thill-Coupling; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to the manner of attaching the thills of a carriage to the axle; and

It consists in forming a divided clip for the thills, and in securing the same by a screw-bolt, in the manner hereinafter described.

Figure 1 represents a vertical longitudinal section of the clip, with the thills attached according to my invention.

Figure 2 represents a top view of the clip.

Figure 3 is a longitudinal section of the thill turned over, showing its under side or half the box.

Similar letters of reference indicate corresponding parts.

A represents the clip, which surrounds the axle in the ordinary manner, with projecting ears B B and pins C C, as seen in fig. 2.

These two pins, C C, are surrounded by a metallic box, lined with leather or other suitable material, (for preventing rattle and noise,) the box being composed of two semicircular parts, one of which, D, is attached to the end of the thill E, and the other half of the box, F, is a separate piece, as seen in the drawing.

The leather lining is seen in red color.

The two parts of the box are not full semicircles, and consequently they do not come in contact, but a

space is left between them, as a provision for wear, either of the leather lining or the pins C.

Through the centre of this box there is a bolt-hole, *g*, and *h* is a bolt, which passes through the box and between the ends of the pins C, with a screw-nut, *i*, on its lower end, as seen in the drawing.

By this bolt the two parts of the box are confined to the pins C C, and any wear may be compensated for by screwing up the nut *i*, so that the connection is kept snug and free from rattle or noise when in use.

The parts may be made of either wrought or malleable iron, and of any desired size and proportions.

It will be seen that the thills are readily detached, and that, consequently, the leather lining can be renewed as often as may be required, to keep the connection perfect.

The advantages of this arrangement are many, and must be obvious to all.

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

The thill-coupling, consisting of the two-part box D, E, and F, adapted to receive a leather lining, and secured upon the pins C, projecting inward from the opposite sides of frame B, by means of the central bolt *h*, passing through the parts D F, between the pins C C, and provided, on its inner end, with the screw-nut *i*, all constructed and arranged to operate as herein shown and described, for the purpose specified.

RUTLAND M. GARRETTSON.

Witnesses:

G. H. GLEASON,
W. H. GLEASON.