

(No Model.)

E. CARR & W. A. WASHER.
THILL TUG.

No. 541,592.

Patented June 25, 1895.

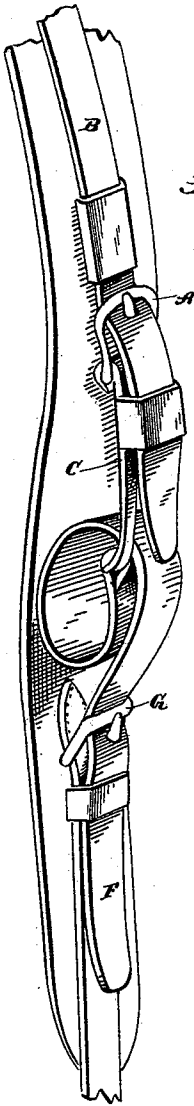


Fig. 1.

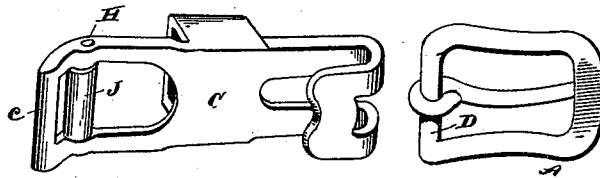


Fig. 2.

WITNESSES

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EDWARD CARR AND WILLIAM A. WASHER, OF CORUNNA, MICHIGAN.

THILL-TUG.

SPECIFICATION forming part of Letters Patent No. 541,592, dated June 25, 1895.

Application filed February 17, 1894. Serial No. 500,545. (No model.)

To all whom it may concern:

Be it known that we, EDWARD CARR and WILLIAM A. WASHER, citizens of the United States, residing at Corunna, county of Shiawassee, State of Michigan, have invented a certain new and useful Improvement in Thill-Tugs; and we declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to thill tugs and attachments to harnesses employed to support and hold the forward end of the thill in its proper position relative to the horse; and it has for its especial object an improvement in that class of thill tugs made of flexible material and adapted to surround and hold closely the thill supported by it.

In the drawings, Figure 1 shows in perspective a thill-tug composed of a peculiarly-formed buckle and billet. Fig. 2 shows the two-part buckle in detail.

A indicates a buckle adapted to engage with an ordinary bearing strap B, depending from the saddle.

C indicates a metallic loop extending from the frame of the buckle A. As shown in detail in Fig. 1, it is made in a separate piece adapted to engage with the cross bar D of the buckle. The loop C is provided with a cross bar *c*, to which the end of a billet strap is secured in any approved way, and this billet strap is if desired provided at a place contiguous to the point at which it is secured to the cross bar *c* with a holding loop made either of metal or leather, as may be preferred.

The opening in the loop C is large enough to permit, not only the attachment of the end of the billet F to it, but also to permit the free end of the billet F to be again passed through the opening in the loop C, thus forming the thill tug loop E. The loop part, C, is made independent of the buckle part A, and the ordinary buckles now in common use

may be utilized in the formation of the completed thill tug as shown, as the part C is made separately, as shown in Fig. 2, and readily attached to the ordinary buckle in the way shown in Fig. 1.

H, in Fig. 2, indicates a cross bar upon which there is a friction roller J, which serves to hold the strap from contact with the end of the strap which is made fast to the outer cross bar of the frame. This roller is not shown in Fig. 1, and may be omitted from the holding frame or buckle, if desired.

What we claim is—

1. An improvement in thill-tugs, consisting of the metal plate C, provided with a loop at both its upper and lower ends, the upper looped end being bent in the form of a hook to removably engage the buckle A, the lower end of the lower loop being formed by the straight bar *c*, to engage the billet strap F, and said lower loop adapted to receive the free end of said billet strap after it has been turned to form the loop E, substantially as described.

2. An improvement in thill-tugs, consisting of a metal plate provided with a loop at both its upper and lower ends, the upper looped end being bent in the form of a hook to removably engage a buckle, the lower end of said lower loop being formed by a straight bar to engage one end of a billet strap, a cross bar supported in the sides of the lower loop midway between the center of said lower loop and said straight bar, a friction roller mounted on said cross bar, said billet strap having one end secured to said straight bar and the free end turned to form a loop, drawn through said lower loop, over said friction roller, and secured to a buckle on the belly band, substantially as described.

In testimony whereof we sign this specification in the presence of two witnesses.

EDWARD CARR.
WILLIAM A. WASHER.

Witnesses:

D. C. COOPER,
MARIS BISSLOP.