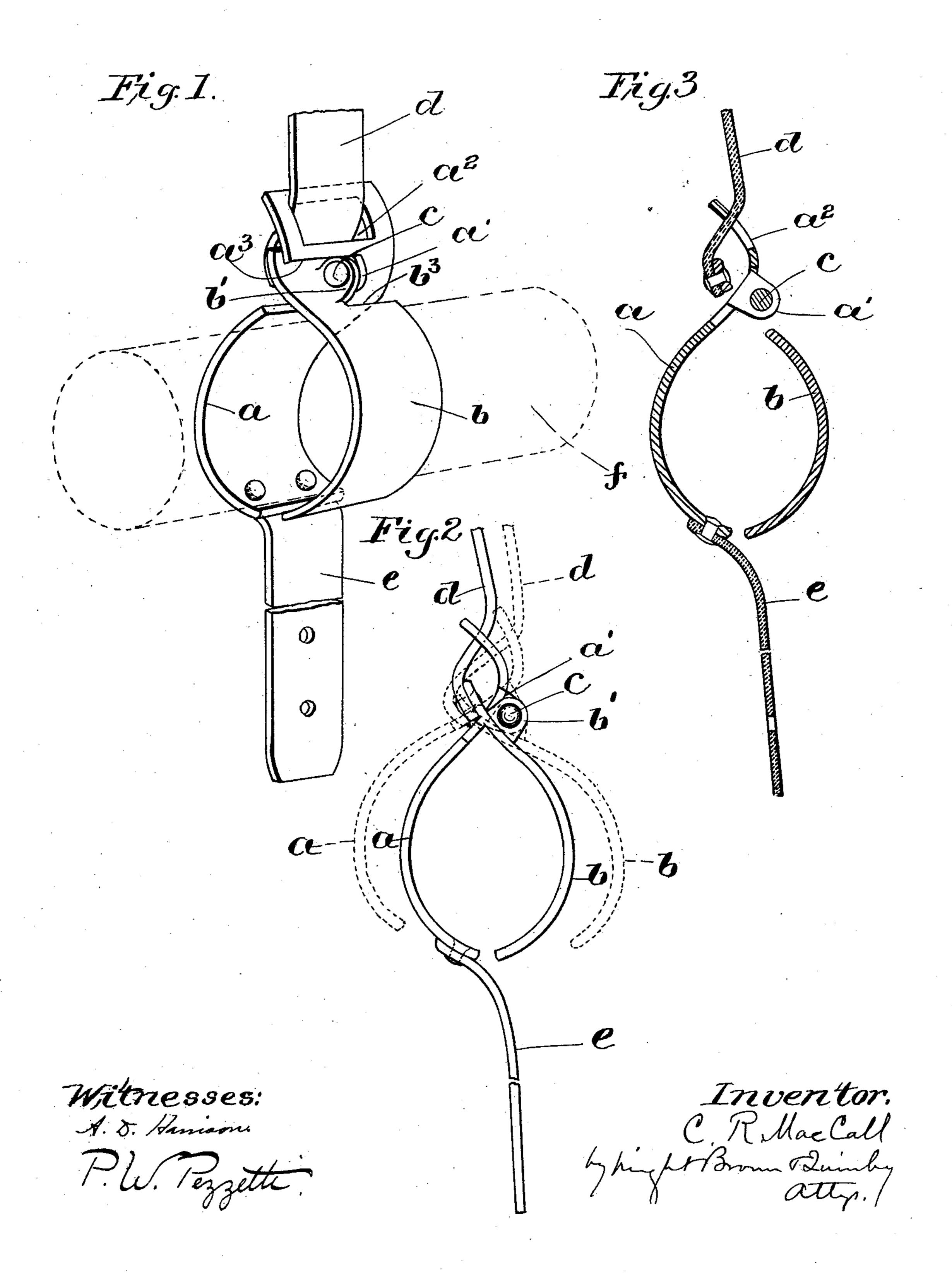
C. R. MACCALL. THILL TUG.

(No Model.)

(Application filed July 21, 1897.



United States Patent Office.

CHARLES R. MACCALL, OF HOWLAND, MAINE, ASSIGNOR OF ONE-HALF TO NATHANIEL M. JONES, OF LINCOLN, MAINE.

THILL-TUG.

SPECIFICATION forming part of Letters Patent No. 606,870, dated July 5, 1898.

Application filed July 21, 1897. Serial No. 645,315. (No model.)

To all whom it may concern:

Be it known that I, CHARLES R. MACCALL, of Howland, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Thill-Tugs, of which the following is a specification.

This invention relates to a thill-tug or shaft-holder for vehicles, and has for its object to provide a simple, inexpensive, durable, and easily-applied device of this class, such as will be hereinafter described and claimed.

Of the accompanying drawings, forming part of this application, Figure 1 represents a perspective view of a thill-tug constructed according to my invention. Fig. 2 represents an end view of the same. Fig. 3 represents a median vertical section.

The same reference characters indicate the

same parts in all the figures.

Referring to the drawings, the letters a and b designate the two members or jaws of my improved thill-tug, the said jaws being composed of metal and hinged together near their upper ends by means of a stud c, which passes 25 through ears a'b', formed on the respective jaws. The jaw a is made somewhat longer at its upper end than b, and is provided above the hinge with an eye or slot a^2 , through which passes a strap d, attached to the upper end of 30 the jaw b. The strap d forms a part of or is secured to the saddle-strap of a harness, and the member a is provided with a strap e, adapted for attachment to the girth-strap or belly-band of the harness. These connections 35 may be made by rivets, buckles, screws, or in any other suitable manner, and the connection of the straps d and e with the jaws may also be accomplished in any desired manner, though riveting is the preferable method in 40 the latter case.

The two jaws comprising the tug are curved to conform to the contour of a wagon or carriage shaft, and they operate to hold said shaft or thill somewhat after the manner of ice-tongs, as will readily be seen in the drawings, the broken-line body f representing the

The members a and b may be cast in the desired shape, or they may be stamped, cut, filed, or otherwise formed from sheet metal. The method of stamping will be particularly

shaft.

convenient, since the ears a' b' may be bent up from the strips caused by forming the complemental recesses a^3 b^3 in the two jaws.

In the operation of hitching it is only necessary to open the jaws of the tug, as indicated by the broken lines in Fig. 2, and insert the shaft between them. They will close of their own weight around the shaft and cannot be opened when the harnessing is complete by 60 any of the ordinary motions of the vehicle or horse, since if slackness occurs in the saddle-strap the girth-strap will keep the jaws together, and vice versa.

The facility with which my improved tugs 65 may be coupled to shafts renders them particularly serviceable for hose-cart harness for fire departments, where despatch in hitching

the horse is of great importance.

By reason of its metallic construction the 70 tug will wear evenly on the shaft-leather, since it may slip freely thereon, and for the same reason will relieve the saddle-strap and the horse's back from the unnecessary strain which is often caused by using leather tugs, 75 which are apt to cling and remain in one position on the shaft-leather. The jaws may be made slightly convex on their inner sides to increase the slip. It is of course possible to line the inner sides of the two jaws with 80 leather or rubber if this should be desired in any case.

The above-described construction is selected only as illustrating the essential features of my invention and is capable of modification in various details without departing

from the spirit of the invention.

I claim—

1. A thill-tug comprising two coacting metallic members curved to conform to a vehicle 90 thill or shaft and hinged together above the shaft, one of said members having an upwardly-extending portion provided with an opening, and having a strap attached to its lower end, and the other member having its 95 upper end extending beyond the hinge and provided with a strap passing through the opening of the first-mentioned member.

2. A thill-tug comprising two coacting metallic members or jaws curved to conform to 100 a vehicle thill or shaft and having ears formed on or attached thereto, and a stud pivotally

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connecting said ears together above the shaft, one of said members being adapted for attachment at its lower end to the girth-strap of a harness and having at its upper end an eye or slot, and the other being adapted for attachment to the saddle of the harness by means of a strap passing through said eye or slot.

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In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 19th day of May, A. D. 1897.

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CHARLES R. MACCALL.

Witnesses:

JOSEPH A. STEVENS, CHAS. F. PLUMLY.