

P. LESTRADE.

THILL TUG.

APPLICATION FILED SEPT. 13, 1912.

1,049,881.

Patented Jan. 7, 1913

Fig. 1.

Fig. 2.

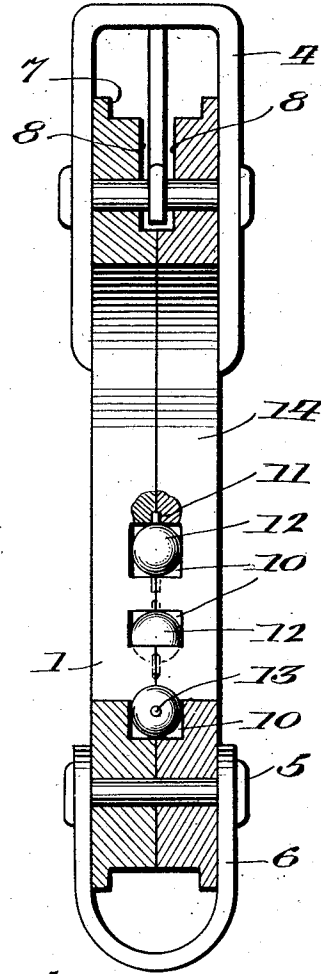
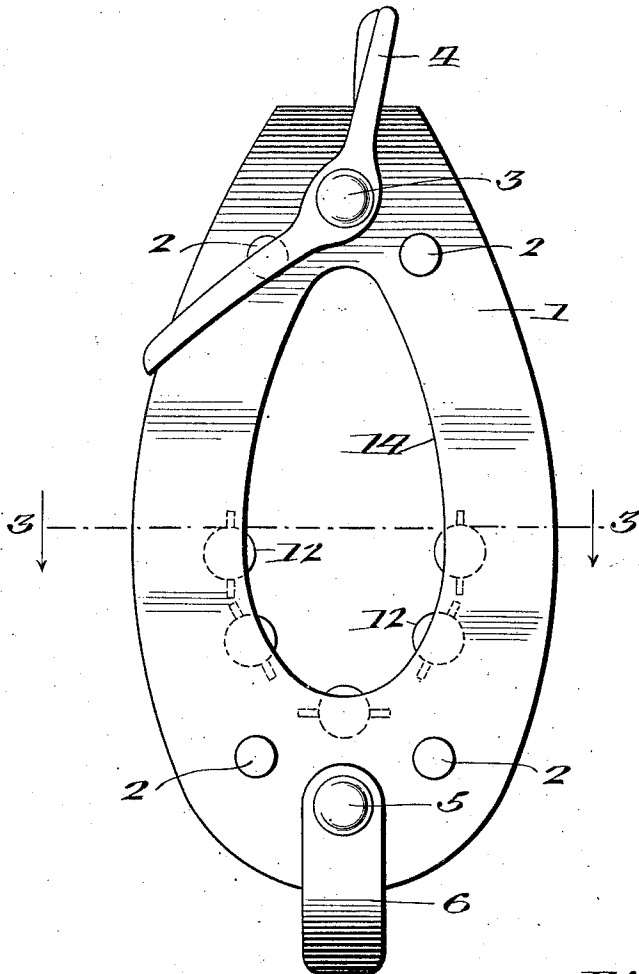
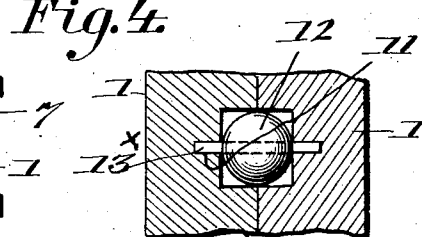
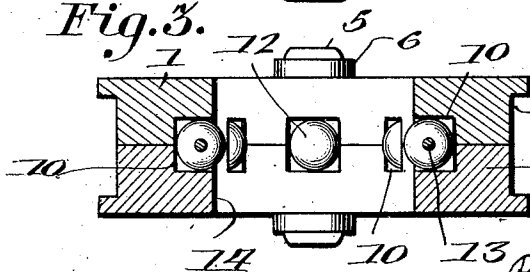


Fig. 3.

Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

PHILIP LESTRADE, OF NEW ORLEANS, LOUISIANA.

THILL-TUG.

1,049,881.

Specification of Letters Patent.

Patented Jan. 7, 1913.

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To all whom it may concern:

Be it known that I, PHILIP LESTRADE, citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented new and useful Improvements in Thill-Tugs, of which the following is a specification.

My present invention pertains to thill tugs such as are equipped with anti-friction devices for working against the underside and the vertical sides of a thill or shaft; and it consists in the peculiar and advantageous thill tug hereinafter described in detail and definitely claimed.

In the accompanying drawings which are hereby made a part hereof: Figure 1 is a front elevation of the thill tug constituting the best practical embodiment of my invention that I have as yet devised. Fig. 2 is a view showing the body of the tug in section and the buckle and loop in elevation; the said view being taken at a right angle to Fig. 1. Fig. 3 is a horizontal section taken in the plane indicated by the line 3—3 of Fig. 1 looking downward. Fig. 4 is a detail of a modification.

Similar numerals of reference designate corresponding parts in all views of the drawings.

My novel tug comprises a body, a buckle, a loop, and a plurality of anti-friction rollers, the latter being mounted to work forward and backward as occasion demands incidental to the use of the tug.

The tug body comprises two sections 1 of suitable metal, and the said sections are connected together by rivets 2 and also by the pivot pin 3 of the buckle body 4, and the pivot pin 5 of the loop 6. In the edges of the said body sections 1 are rabbets which when the sections are connected as stated form a groove 7 that extends entirely around the body. It will also be observed that recesses 8 are formed in the opposed sides of the sections 1 at one end of the device to receive and permit play of the buckle tongue 9, and that the opposed sides of the sections 1 are recessed as indicated by 10 and 11 for the reception of the anti-friction balls 12 and the ball trunnions 13, respectively, whereby the balls or, more strictly speaking, rollers are enabled to turn backward

and forward during the use of the tug. The rollers 12 protrude into the central opening 14 in the tug body, as shown in Fig. 1, and consequently bear against the thill or shaft and render easy all movements of the tug or shaft with respect to each other.

It will be gathered from the foregoing that my novel tug is susceptible of being easily and cheaply produced, that it is exceedingly strong and durable, and that there is no liability of any one of the rollers 12 being displaced until after the body sections 1 are disconnected and separated. It will also be gathered that a band or strap can be readily connected to my novel tug direct, this because of the groove 7 in the edge of the body.

When desired it is obvious that in lieu of providing the rollers 12 with trunnions 13, the said rollers may be loosely mounted on shafts 13^x, disposed in the recesses 11 of the body sections 1 as shown in Fig. 4.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:

A thill tug comprising opposed body sections having registered thill-receiving openings and also having their edges rabbeted to form a groove and further having registered recesses in their opposed sides and smaller recesses in said sides and in communication with the first named recesses, rollers disposed in the pockets formed by the first named recesses and protruding into the thill-receiving openings, roller supporting means disposed in the second named recesses, pivot pins extending transversely through the sections, a buckle body and a buckle tongue pivoted on one of said pins, a loop pivoted on the other of the pins, and means extending transversely through the sections and assisting in connecting the same together.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

PHILIP LESTRADE.

Witnesses:

JNO. D. TOWNSEND,
GEO. W. WITZMAN.