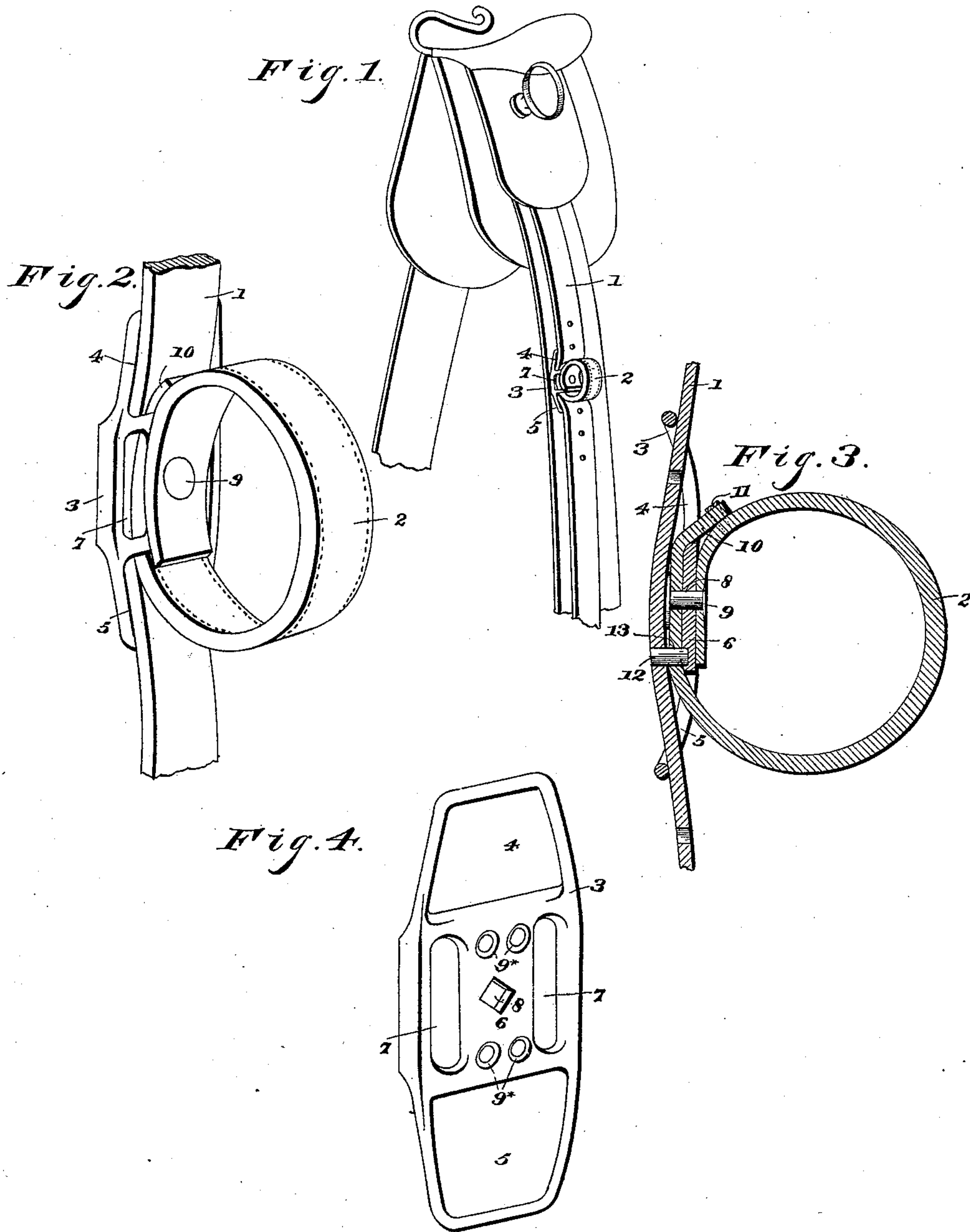


(No Model.)

D. SINGLETARY.  
THILL TUG.

No. 428,641.

Patented May 27, 1890.



Witnesses,

*J. M. Withrow*

*H. J. Riley*

Inventor  
*Don Singletary*

By *his* Attorneys

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# UNITED STATES PATENT OFFICE.

DON SINGLETARY, OF UNION CITY, TENNESSEE.

## THILL-TUG.

SPECIFICATION forming part of Letters Patent No. 428,641, dated May 27, 1890.

Application filed December 20, 1889. Serial No. 334,415. (No model.)

*To all whom it may concern:*

Be it known that I, DON SINGLETARY, a citizen of the United States, residing at Union City, in the county of Obion and State of Tennessee, have invented a new and useful Thill-Tug, of which the following is a specification.

The invention relates to improvements in thill-tugs.

10 The object of the present invention is to provide a thill-tug of simple and inexpensive construction, adapted to be readily applied to any ordinary form of harness, and be arranged upon the outside of the thill-tug strap and enable the latter to pass beneath the shaft and permit the girth to be drawn as tight as possible, and thereby prevent unnecessary motion of the shaft and insure greater comfort to the animal.

20 The invention consists in the construction and novel combination and arrangement of parts hereinafter described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

25 In the drawings, Figure 1 is a perspective view of a harness-saddle having a thill-tug constructed in accordance with the invention and shown applied to the strap. Fig. 2 is a similar view of the thill-tug itself. Fig. 3 is a central longitudinal sectional view of a thill-tug and a portion of the thill-tug strap. Fig. 4 is a detail view of the buckle.

Referring to the drawings, 1 designates the thill-tug strap, which is secured to a harness-saddle in the usual manner and has arranged near its lower end a thill-tug loop 2, which is riveted to a buckle 3, which secures the loop to a thill-tug strap 1 and enables the same to be adjusted on said strap. The buckle 3 is provided at its ends with loops 4 and 5, and has a central plate 6, that is provided at each side with elongated openings 7 and at its center with an opening 8, through which passes a rivet 9, that secures the ends of the loop 2 to the buckle. The plate 6 is provided

with perforations 9\*, which enable the buckle to be sewed to the loop when desired, and these perforations also increase the lightness of the buckle without impairing its strength. The loop 2 has one of its ends secured to the back of the buckle and its other end passed through the loop, and the free end 10 is secured by means of the staple 11. The loops 4 and 5 at the ends of the buckle are slightly inclined and the thill-tug strap passes through the loops and is engaged by a pin 12, that is provided near one edge of the central plate at a point about midway the sides of the buckle. The pin 12, which is preferably integral with the plate, passes through a perforation 13 of the tug and is adapted to engage a series of perforations of the strap 1, whereby the thill-tug is adjusted to the saddle. It will readily be seen that the thill-tug loop is simple and inexpensive in construction, that it can be readily attached to any ordinary form of harness, and that the simplicity of the latter is greatly increased. By this construction the thill-tug strap is arranged within the thills and the girth can be made as tight as desired to prevent unnecessary motion of the thills and the consequent annoyance to the animal.

What I claim is—

The combination, with the strap 1, of the buckle having the central plate 6 and the loops 4 and 5, said plate 6 being provided with a central opening 8, perforations 9, and having at its side elongated openings 7, and the thill-tug loop secured to the sides of the plate 6, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

DON SINGLETARY.

Witnesses:

JOHN C. SMOOT,  
W. E. GRIGSBY.