

(No Model.)

A. C. MARSHALL.
THILL TUG.

No. 488,021.

Patented Dec. 13, 1892.

Fig. 1.

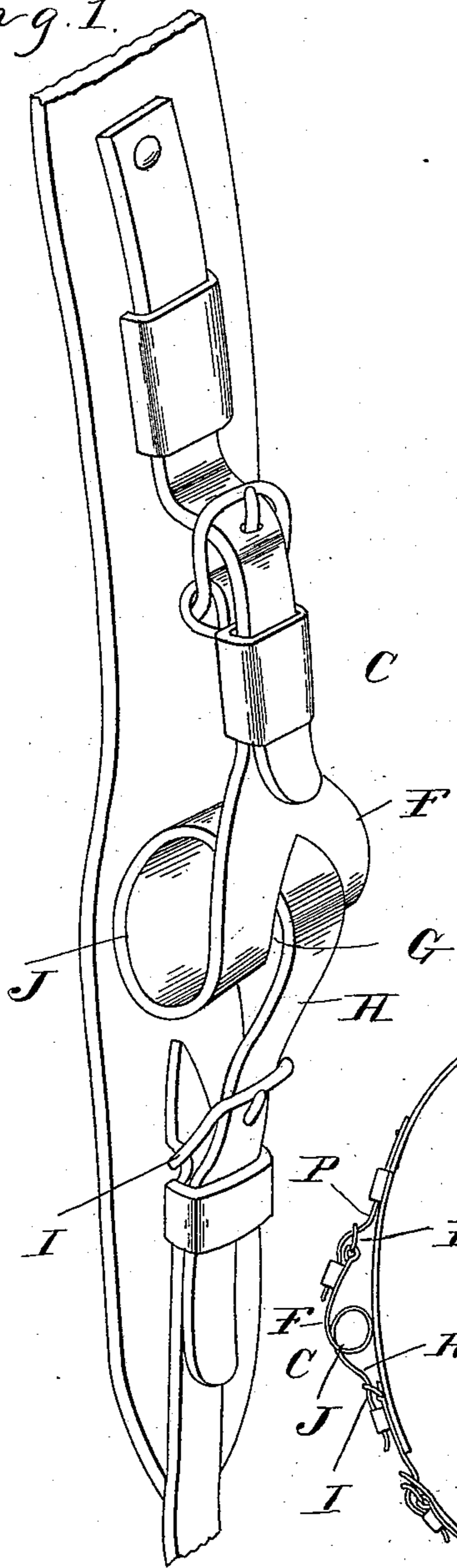


Fig. 3.

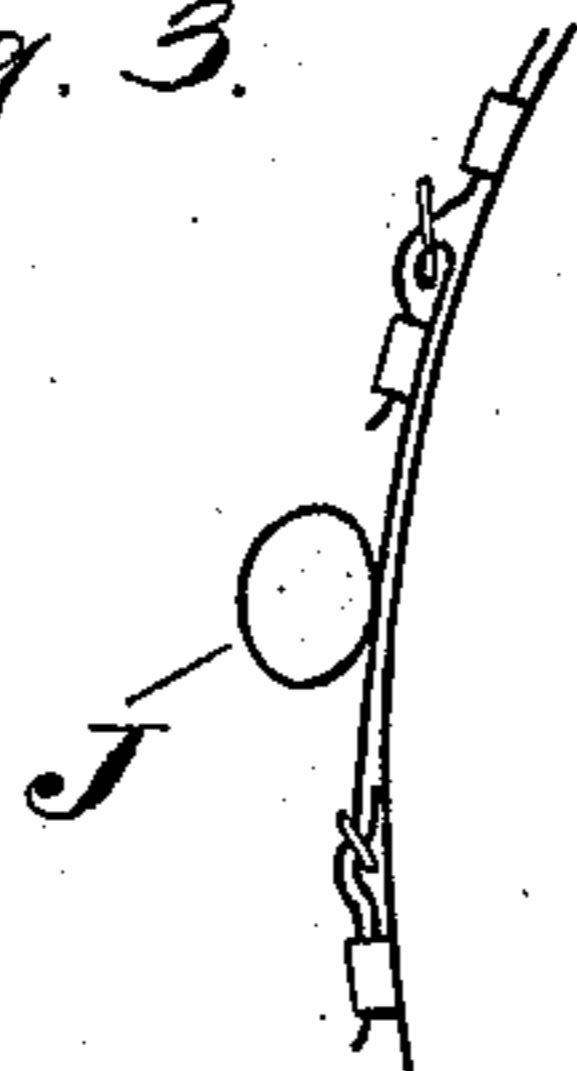
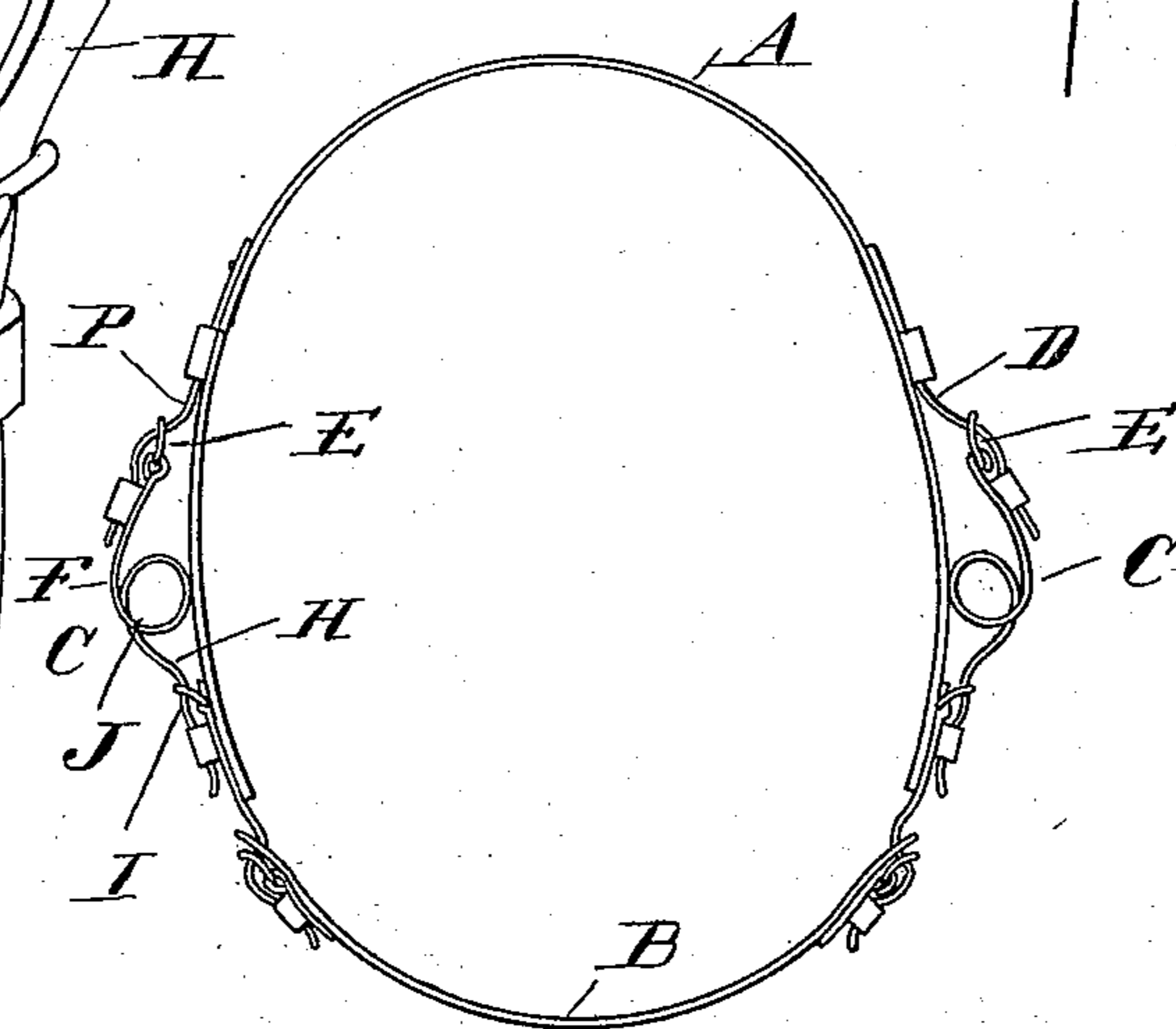


Fig. 4.



Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

ANDERSON C. MARSHALL, OF CORUNNA, MICHIGAN.

THILL-TUG.

SPECIFICATION forming part of Letters Patent No. 488,021, dated December 13, 1892.

Application filed March 18, 1892. Serial No. 425,442. (No model.)

To all whom it may concern:

Be it known that I, ANDERSON C. MARSHALL, a citizen of the United States, residing at Corunna, in the county of Shiawassee and State of Michigan, have invented certain new and useful Improvements in Thill-Tugs for Harness, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to new and useful improvements in thill-tugs for harness; and it consists in the peculiar construction and arrangement of parts hereinafter described, and definitely pointed out in the claim.

15 To this end my invention consists in a strap secured to the saddle or saddle-girth, at one end adapted to have an inward or outward extending loop formed therein around the thill, and to be again secured to the saddle or saddle-girth and be tightly drawn, if desired, to hold the thill rigidly in position, all as more fully hereinafter described.

In the drawings, Figure 1 is a perspective view of my improved device, showing the loop formed in the strap. Fig. 2 is a side elevation of the same, showing the saddle and saddle-girth and the relation of the thill-tug to the same. Fig. 3 is an elevation of my thill-tug, showing the loop formed on the outside. Fig. 4 is a similar elevation showing the strap disengaged and ready to have the loop formed therein.

25 A is the saddle of a harness, and B the girth-strap, the saddle being provided with the usual billet D, adapted to engage a buckle on the girth-strap to hold it tightly secured around the horse in the usual manner.

30 C is my improved thill-tug suspended from the strap or billet D by means of a buckle E, formed at the upper end of the thill-tug strap. The thill-tug, as described, has a buckle at its upper end, immediately below which is an enlarged portion F, provided with an aperture G, and terminating in a strap or billet H. This tug is formed of a single strap, having unobstructed sides, and is made flexible throughout for purposes hereinafter stated.

I is a buckle secured to the saddle or saddle-girth at a point below the line of the thill. The thill-tugs being in the position shown in Fig. 4—that is, hanging loosely from the strap D—the harness being placed upon the horse, and the horse brought in proper relation to the thills, the operator to secure the thill to the harness passes the thill-tug around the outside or inside of the shaft, as the case may require, forming a loop J around such thill, then passes the billet through the aperture G, and secures the end thereof in the buckle I, as plainly shown in Fig. 1. This forms a rigid loop around the thill and holds it against vertical movement in either direction. At the same time the loop J may be drawn so tightly about the thill as to prevent any chafing or wearing of the thill in the loop.

65 In place of forming the loop as shown in Fig. 1, I form the loop upon the outside, as shown in Fig. 3, which holds the shaft more rigidly in position, which is a desirable feature when the tugs are to be used in connection with a two-wheeled vehicle and for speeding purposes. It will thus be seen that by forming the tug-strap C flexible throughout and with unobstructed outer and inner faces the loop can readily be formed on either the inside or outside of the strap.

What I claim as my invention is—

In a harness, the combination, with a back-strap having a billet secured on its end, of a tug consisting of a single piece, flexible strap formed with a perforated enlarged portion F, having unobstructed sides, attaching means on its upper end and arranged to be folded in or out to form shaft-supporting loops, its end passing through the aperture and carried down and secured to the girth, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ANDERSON C. MARSHALL.

Witnesses:

JAMES WHITEMORE,
N. L. LINDOP.