

(No Model.)

W. W. GLECKNER.
THILL TUG.

No. 560,206.

Patented May 19, 1896.

Fig. 1.

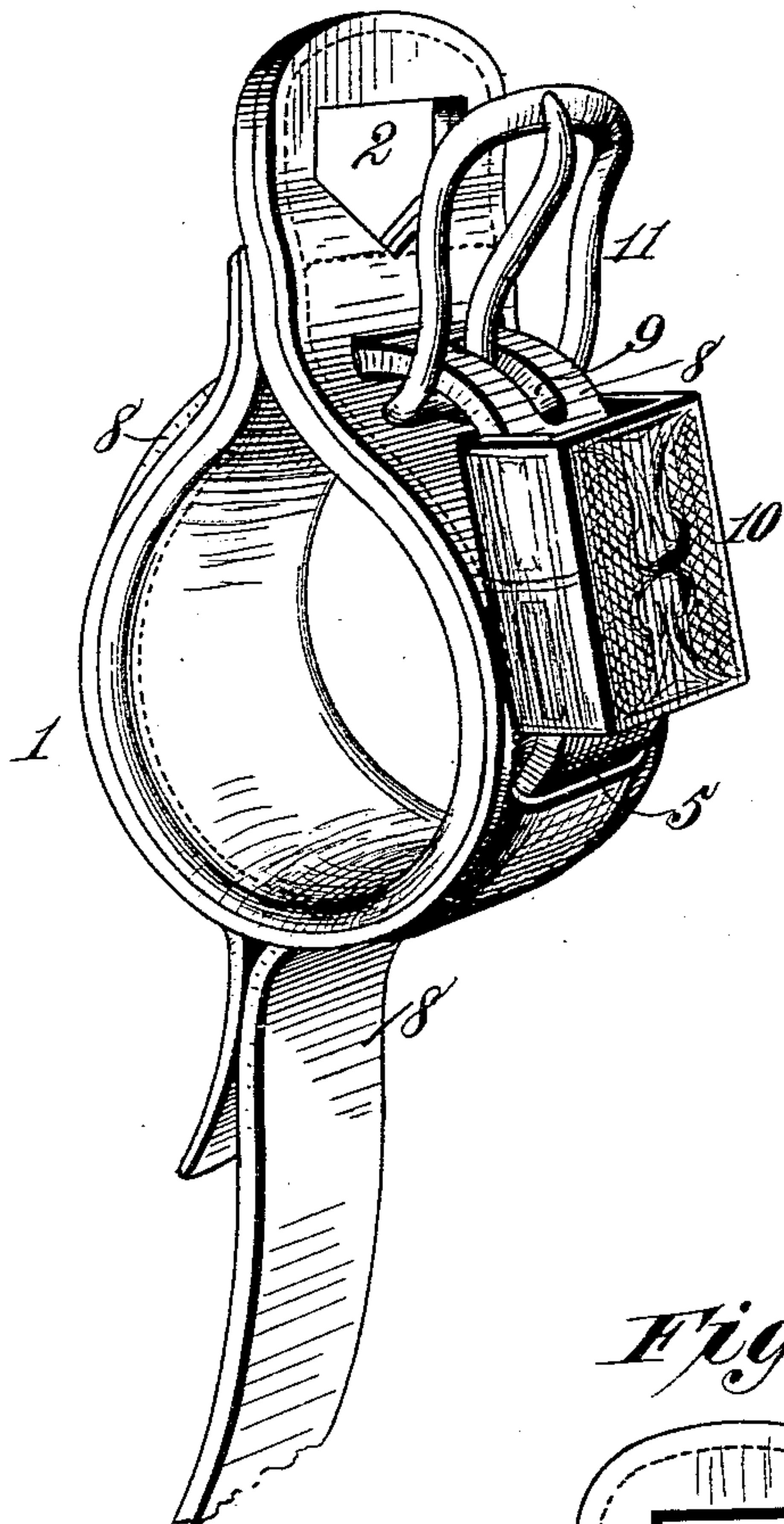


Fig. 2.

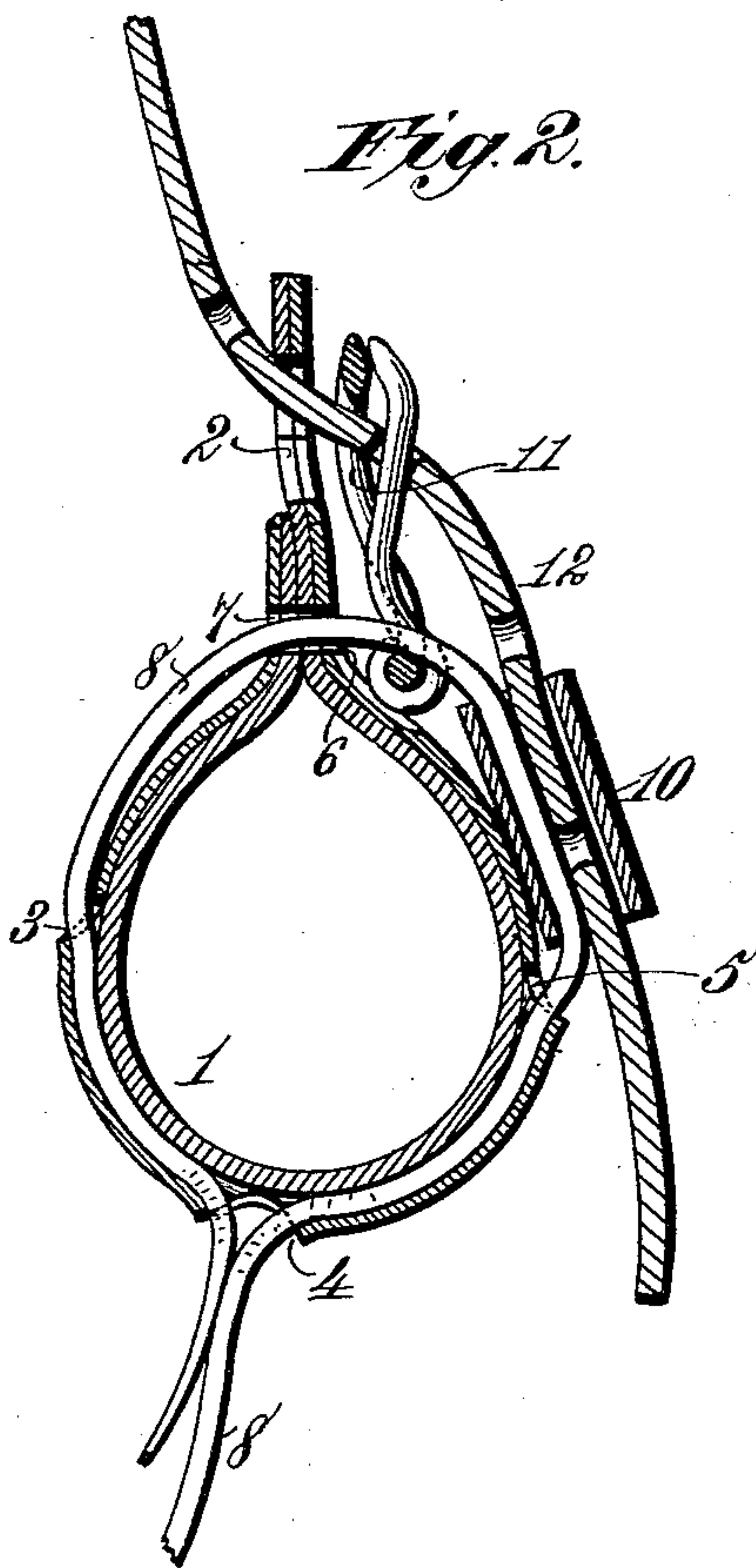
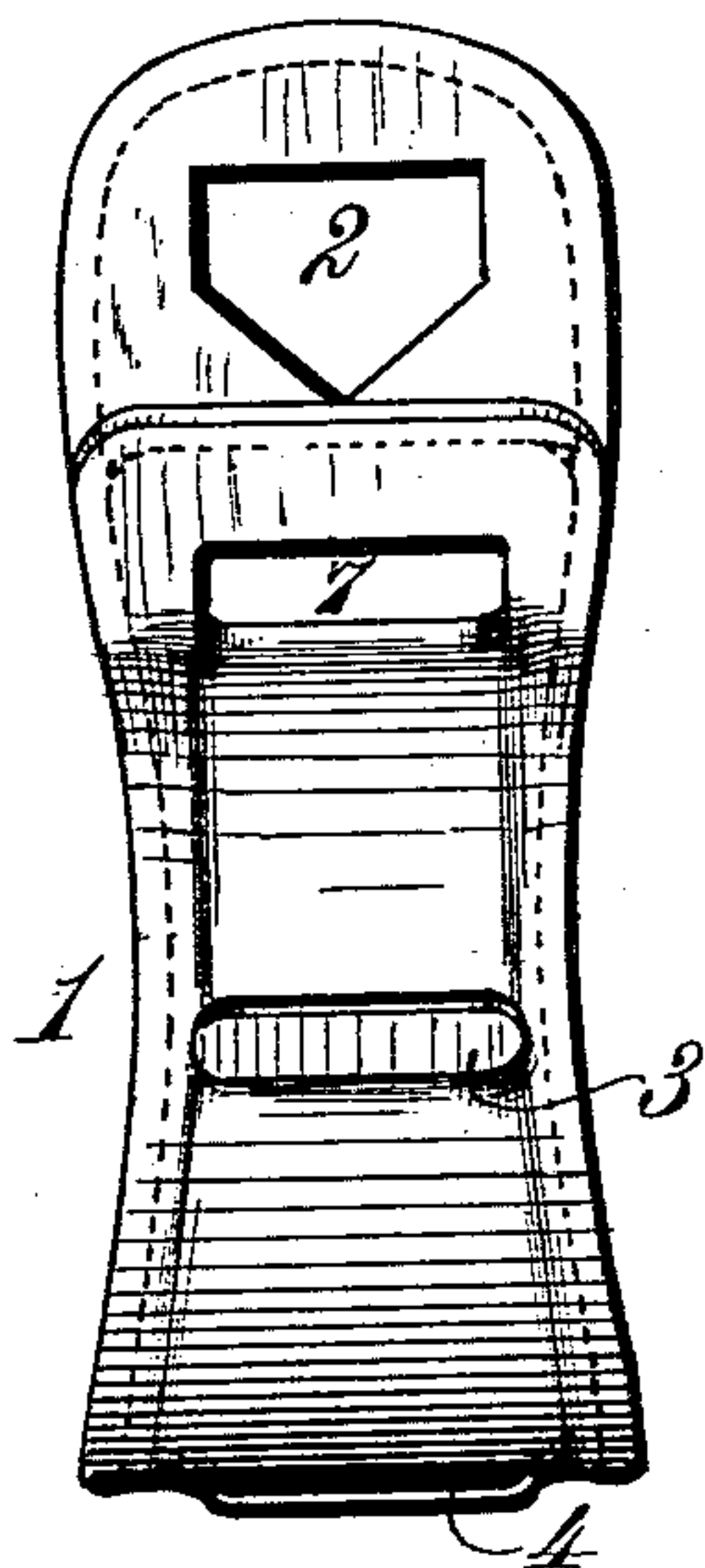


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

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THILL-TUG.

SPECIFICATION forming part of Letters Patent No. 560,206, dated May 19, 1896.

Application filed August 28, 1894. Serial No. 521,571. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. GLECKNER, a citizen of the United States, residing at Canton, in the county of Bradford and State of Pennsylvania, have invented a new and useful Improvement in Thill-Tugs, of which the following is a specification.

My invention relates to improvements in shaft or thill tugs, and has for its object, primarily, to so construct and connect the shaft or thill loop with the girth-strap that no sewing, riveting, or other permanent means of connection is required, whereby the two parts may be readily removed for replacement or repair.

A further object of my invention is to detachably connect the saddle-strap buckle and box-loop to the assembled girth-strap and shaft-loop, so that the same may also be readily removed.

These objects I accomplish in the manner and by the means hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved device. Fig. 2 is a central vertical section of the same, and Fig. 3 is a rear elevation of the shaft-loop detached.

In the said drawings the reference-numeral 1 denotes the shaft-loop bent to the shape shown and fastened together at its upper ends, leaving one end projecting somewhat above the other, and provided with the hole 2 for the passage of the saddle-strap. This loop is preferably formed of two or more thicknesses of leather sewed together, and in the outer thickness are formed three slots 3, 4, and 5. Two apertures 6 and 7 are also made in said loop, the same passing entirely there-through and registering at the top when the ends of the loop are connected together. Instead of being formed of leather, however, the shaft-loop may be constructed of metal. The girth-strap 8 is formed with a single elongated aperture 9 therein to accommodate the buckle-tongue when the parts are assembled. To assemble the various parts, pass the free end of the girth-strap 8 into the slot 4 and out at slot 5. The box-loop 10 and buckle 11 are then placed thereon, care being taken to pull the strap 8

far enough through the slots 4 and 5 to bring the aperture 9 at the top of the loop 1 in proper position to receive the buckle-tongue there-through. The end of strap 8 is then passed through apertures 6 and 7, and then into slot 3 and out again at slot 4, thus making a complete circuit of the loop 1 and affording a frictional engagement therewith sufficient to retain the two together against any strain that may be put upon them. The shaft may now be passed through the loop 1, the girth-strap fastened beneath the horse's belly in the usual manner, and the saddle-strap 12 passed through the hole 2 in the top of the loop, engaged by the buckle-tongue, and then passed through the box-loop 10; or, if desired, the saddle-strap may be engaged directly by the buckle without first passing it through the hole 2. It will of course be understood that the girth-strap 8 may also form the belly-band of the harness, or may be attached thereto in any suitable manner.

Having thus described my invention, what I claim is—

1. The combination with a shaft-loop formed of two or more thicknesses of material and having a series of slots in the outer thickness thereof and apertures passing completely therethrough for the passage of a strap, of a girth-strap adapted to be passed in and out of said slots and through said apertures to substantially encircle said loop and form a frictional connection therewith, substantially as described.

2. The combination with a shaft-loop formed of two or more thicknesses of material and slotted and apertured, substantially as described, of an apertured girth-strap adapted to be passed in and out of the slots and through the apertures in said loop, a box-loop through which said strap passes between one of the loop slots and apertures, and a saddle-strap buckle also engaged by said strap the tongue thereof passing through the aperture in said strap, substantially as described.

3. The combination with the shaft-loop 1 formed of two or more thicknesses of material and having the slots 3, 4 and 5 through the outer thickness thereof and the apertures 6 and 7 passing completely therethrough, of

the girth-strap 8 having the aperture 9 therein and adapted to be passed in at slot 4, out at slot 5, through apertures 6 and 7, in again at slot 3, and out again at slot 4, a box-loop 10 engaged by said strap between slot 5 and aperture 6, and a saddle-strap buckle 11 also engaged by said strap between said slot and ap-

erture and having its tongue passing through the aperture 9 in said strap, substantially as described.

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Witnesses:

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