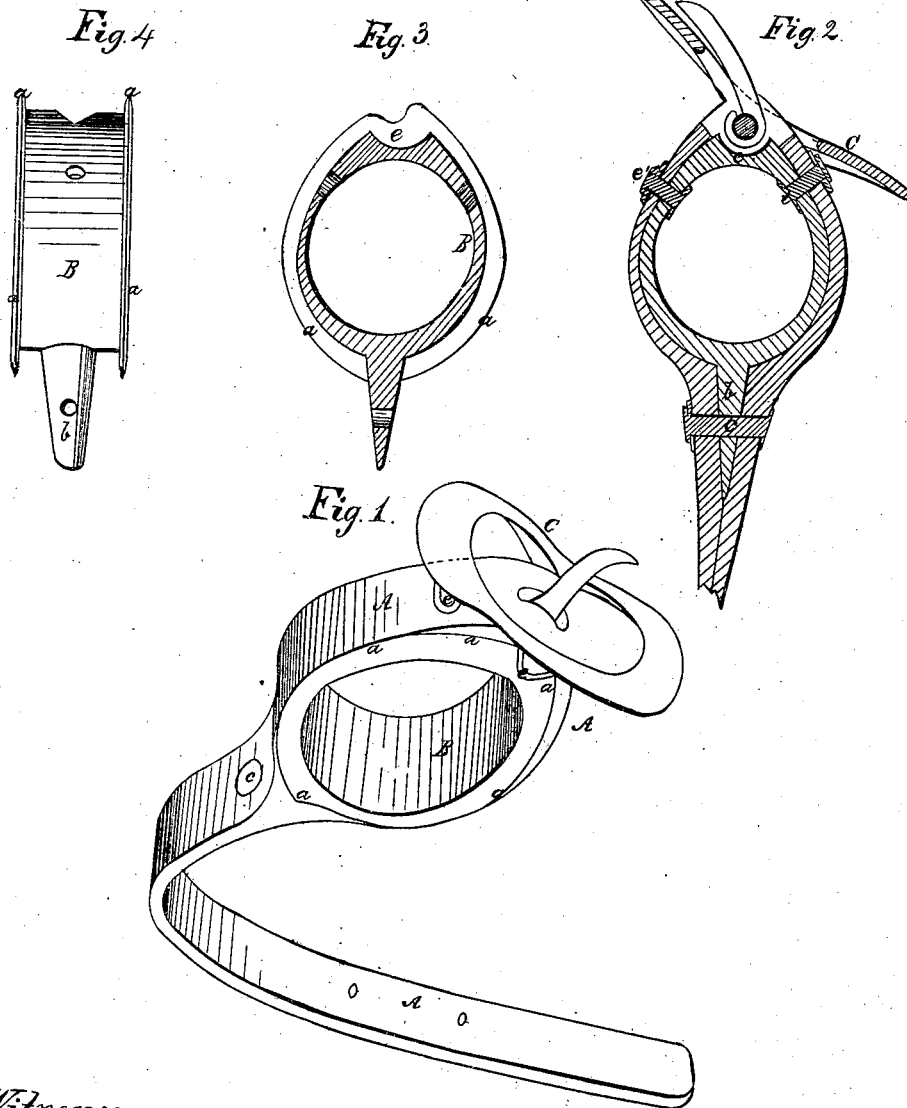


*Neely & Bishop,*  
*Harness Tug,*  
*Nº 50,615,* *Patented Oct. 24, 1865.*



*Witnesses,*  
*R. T. Campbell*  
*Eduard Schaper*

*Inventor,*  
*Thos. Neely & Bishop*  
*Chas. Bishop*  
*by their Atty,*  
*Marion, Knicker & Lawrence*

# UNITED STATES PATENT OFFICE.

THOMAS NEELEY AND CHARLES BISHOP, OF TIFFIN, OHIO.

## IMPROVED THILL-TUG.

Specification forming part of Letters Patent No. 50,615, dated October 24, 1865.

*To all whom it may concern:*

Be it known that we, THOMAS NEELEY and CHARLES BISHOP, of Tiffin, Seneca county, and State of Ohio, have invented a new and Improved Thill-Tug; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of our improved thill-tug. Fig. 2 is a sectional view, showing the mode of applying the tug-strap to the metal eye. Fig. 3 is a section through the eye without the tug-strap. Fig. 4 is an external edge view of the eye.

Similar letters of reference indicate corresponding parts in the several figures.

The object of this invention is to strengthen and to render more durable the tug-straps, which are used upon harness for supporting the thills of vehicles by combining metallic thimbles with leather tug-straps in such manner that the thimbles shall receive the thills and protect those portions of the straps which surround the thills from wear, as will be hereinafter described.

To enable others skilled in the art to understand our invention, we will describe its construction and operation.

In the accompanying drawings, A represents the leather tug-strap, and B is the metallic thimble through which a thill passes. This thimble or eye is formed of such shape inside as will best adapt it to receive the thill, and on each side of its exterior surface is a flange, *a*, which flanges receive between them that portion of the leather tug-strap A, which encircles the eye, as shown in Figs. 1 and 2.

In making the eye B a tang, *b*, is formed on it, which tang has a hole through it to receive a rivet, *c*, that unites the two portions of the

strap A together, and prevents the eye B from any possibility of turning in the loop of the strap.

At the opposite end of the eye B a notch, *e*, is formed to receive the tongue-bar of a buckle, C, which is used to attach the tug to the harness. This buckle C is secured to the eye B in the act of securing the strap A to it, so that the tongue-bar will be between that portion of the strap which passes around the eye B and the outer surface of this eye.

In conjunction with the tang *b* and its rivet *c* another rivet at *e'* is used for securing the loop of the strap A to the metallic eye; and if desirable still another rivet may be used at *i*.

It will be seen that the two rivets *e'* and *i* will prevent the loop of the strap A from stretching when a strain comes upon the buckle C, and consequently they will prevent the tongue-bar of the buckle from slipping out of its notch in the eye B.

If desirable, a loop may be formed on that side of the tug-eye which comes next the horse for receiving a strap, which may be used for the purpose of holding back, thus combining the two features of holding up the thills and holding back the animal in one device.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. Applying a tug-strap to a metallic eye, B, by passing a portion of the strap around said eye, substantially as described.

2. A metallic tug-eye which is constructed with flanges *a a* and a tang, *b*, substantially as described.

THOMAS NEELEY,  
CHARLES BISHOP,

Witnesses:

I. K. HORD,  
H. NOBLE.