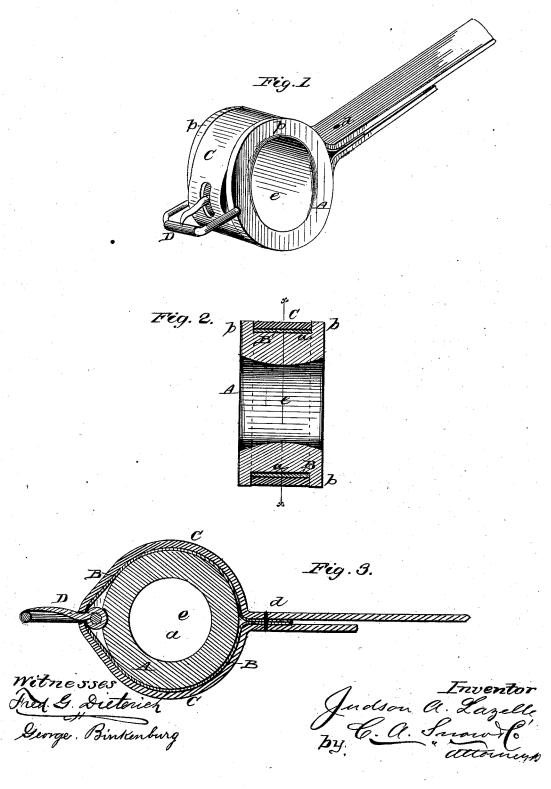
J. A. LAZELLE. Thill Tug or Loop.

No. 216,619.

Patented June 17, 1879.



UNITED STATES PATENT OFFICE

JUDSON A. LAZELLE, OF PERRY, OHIO.

IMPROVEMENT IN THILL TUGS OR LOOPS.

Specification forming part of Letters Patent No. 216,619, dated June 17, 1879; application filed November 12, 1878.

To all whom it may concern:

Be it known that I, JUDSON A. LAZELLE, of Perry, in the county of Lake and State of Ohio, have invented certain new and useful Improvements in Thill-Tugs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view. Fig. 2 is a cross-section; and Fig. 3 is a section on the line x x, Fig. 2.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to an improvement in thill-tugs; and it consists in constructing the same of rubber, metal, and leather combined, whereby a more durable and useful article can be produced than is now commonly employed, substantially as I shall now proceed more fully to describe.

In the drawings, A represents a heavy rubber ring or band, having an annular groove or depression, a, leaving a flange, b, on each side. In the groove a between the flanges b b I adjust a strip or band, B, of sheet metal—such as ordinary hoop-iron—and over this a similar strip or band, C, of leather. The ends of the metallic and leather bands are secured together at d in any suitable manner, and at the side of ring A, opposite the point d, is adjusted a buckle, D, held in place by both the leather and the metal strap.

The opening e in the ring A is for the admission of the thill or shaft, which is passed through in the usual manner. By the buckle D my improved thill-tug is attached to the

harness-saddle, or to a strap depending therefrom, for the purpose of supporting the thill or shaft.

My improved thill-tug is more durable and more easily adjusted than thill-tugs of the construction now in common use. It may also be produced at a very small expense.

I am aware that a metallic strap for the purpose of securing the buckle and adding strength is not new, broadly, in a device of this kind; but it will be observed that by the arrangement shown and described by me no part of the metal strap is exposed to rub against the skin of the horse or parts of the harness; also, that no specially-shaped metallic brace is required, as in the patent of Stuber, January 12, 1869, but simply a piece of hoop-iron, in the preparation of which no expese is involved.

It may also be stated that no rivets (by the use of which the leather parts of a harness are always weakened) are absolutely necessary to keep it in position, as this may be effected by stitching together the ends of strap C.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The improved thill-tug herein described, consisting of the rubber ring A, having annular groove a, metallic band B, leather band C, and buckle D, secured to ring A by straps B C, substantially as and for the purpose herein shown and specified.

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

JUDSON A. LAZELLE.

Witnesses:

A. S. STRATTON, J. B. HAYDEN.