

M. Gumpfroy,
Trace-Tug Loop,
N^o 78,277. Patented May 26, 1868.

Fig. 1

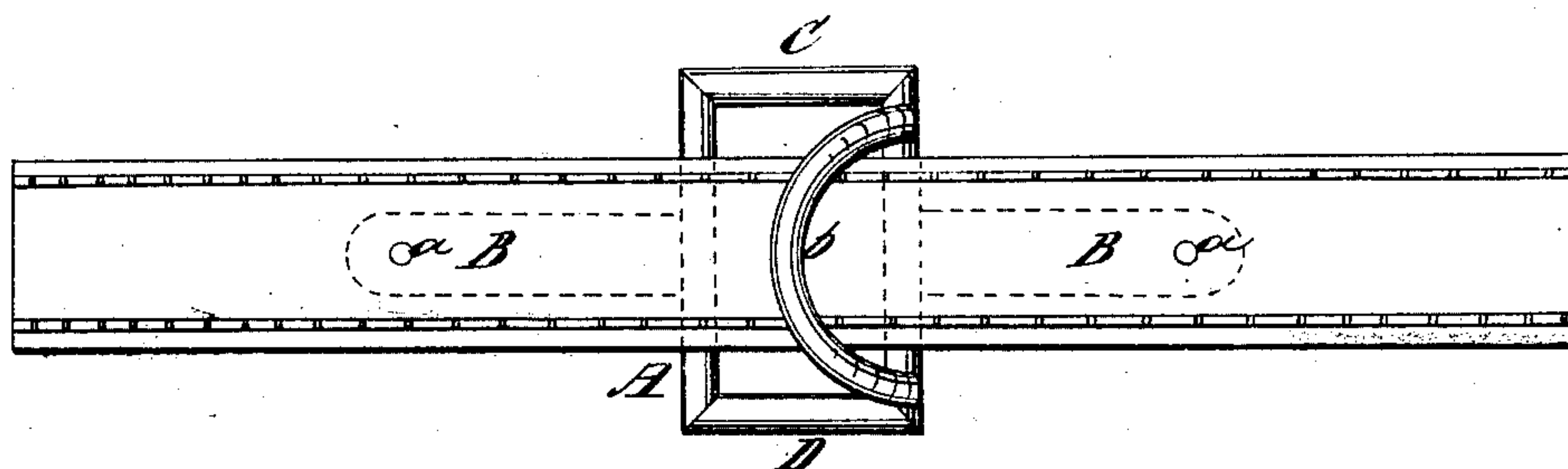
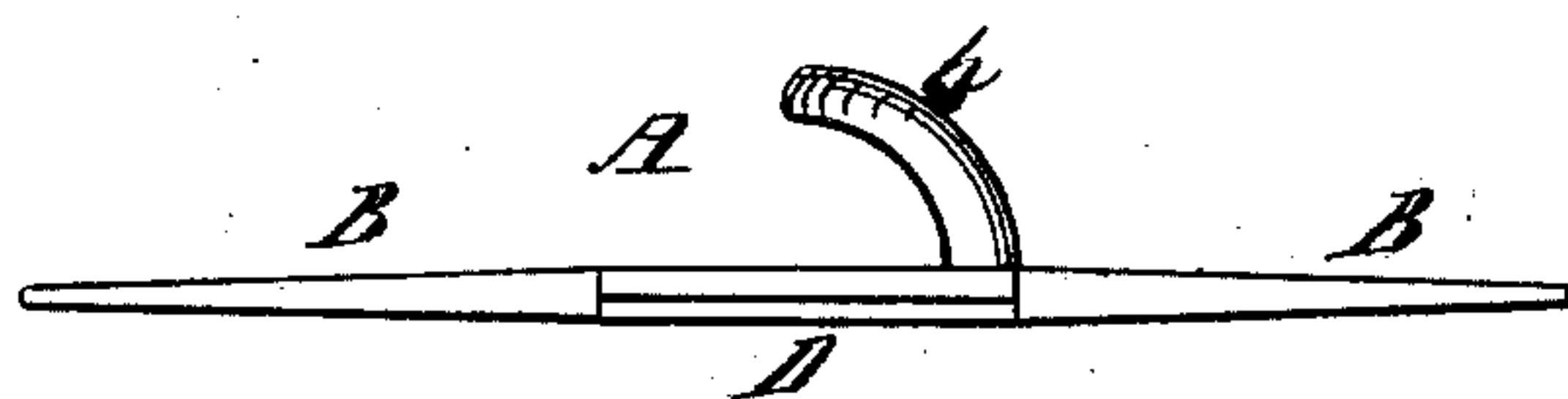


Fig. 2



Witnesses.

Jesse Zepf.
James E. Pritch

Inventor

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United States Patent Office.

MICHAEL GUMFORY, OF WEST MIDDLESEX, PENNSYLVANIA.

Letters Patent No. 78,277, dated May 26, 1868.

IMPROVED TRACE-TUG LOOP.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, MICHAEL GUMFORY, of West Middlesex, in the county of Mercer, and State of Pennsylvania, have invented a new and improved Trace-Tug Loop; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a top view, showing the tug-loop attached to the trace.

Figure 2 is a side view of the tug-loop.

Like letters in both figures of the drawings indicate like parts.

My invention relates to an improved tug-loop for harness, which is so constructed as to supersede the necessity of sewing to traces leather loops for the reception of the budgeon or quarter-straps.

It consists of a quadrilateral metallic frame, having two flat metallic bars or clamps projecting in opposite directions, and transversely therefrom, the said bars being perforated at the extremities thereof, the perforations being designed to receive the rivets by which it is fastened to the trace, the aforesaid metallic frame having a bow thereon, which is also slightly bent in a horizontal direction, and which bow springs from near the lateral ends of the frame, the various parts composing one solidly-connected piece of metal.

To enable any one skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents a quadrilateral frame, of such size as usually obtains in the construction of the frames of harness-buckles.

B represents metallic bars or shanks, which project transversely from the frame of the tug-loop, each of which shanks has therein an aperture, through which it is designed that suitable rivets, *a a*, shall pass, for the attachment of the tug-loop to the trace.

It is obvious that this tug-loop not only supersedes the present method of making traces in two pieces, which involves a considerable loss of stock, but that it also obviates the necessity of sewing to the trace leathern loops, for the reception and holding of the straps or ends of the trace in position.

The back and belly-bands are attached to the bars C and D of the frame, and side strap to the bow *b* thereof.

The tug-loop being cast in one piece, and arranged with shanks in the trace, and attached thereto, as aforesaid, by rivets, presents a strong and durable loop for the reception of said bands and strap, so desirable for keeping the harness steady to the horse.

Having thus fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

The tug-loop A, when arranged with shanks B B, and attached to the trace by rivets *a a*, substantially in the manner and for the purpose as herein shown and described.

As evidence that I claim the foregoing, I have hereunto set my hand in the presence of two witnesses.

MICHAEL GUMFORY.

Witnesses:

JAMES K. McBURNEY,

D. D. COLLINS.