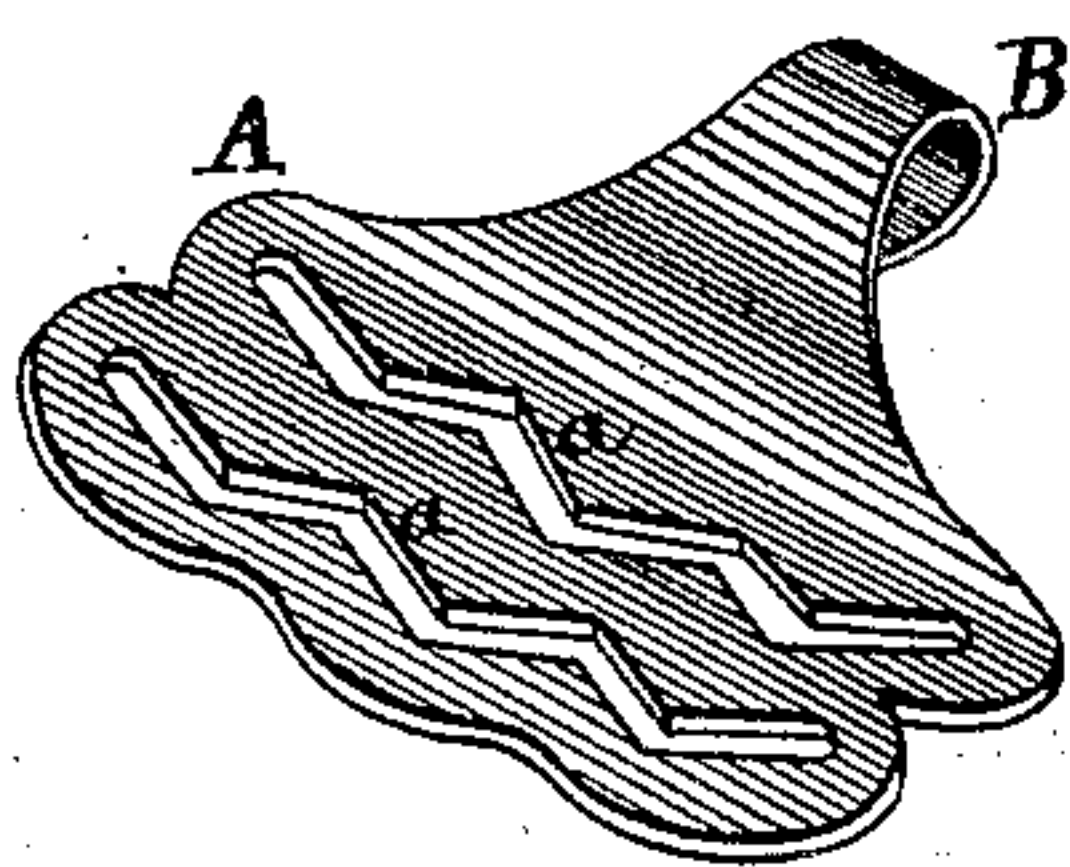


S. WARD.  
BUCKLES.

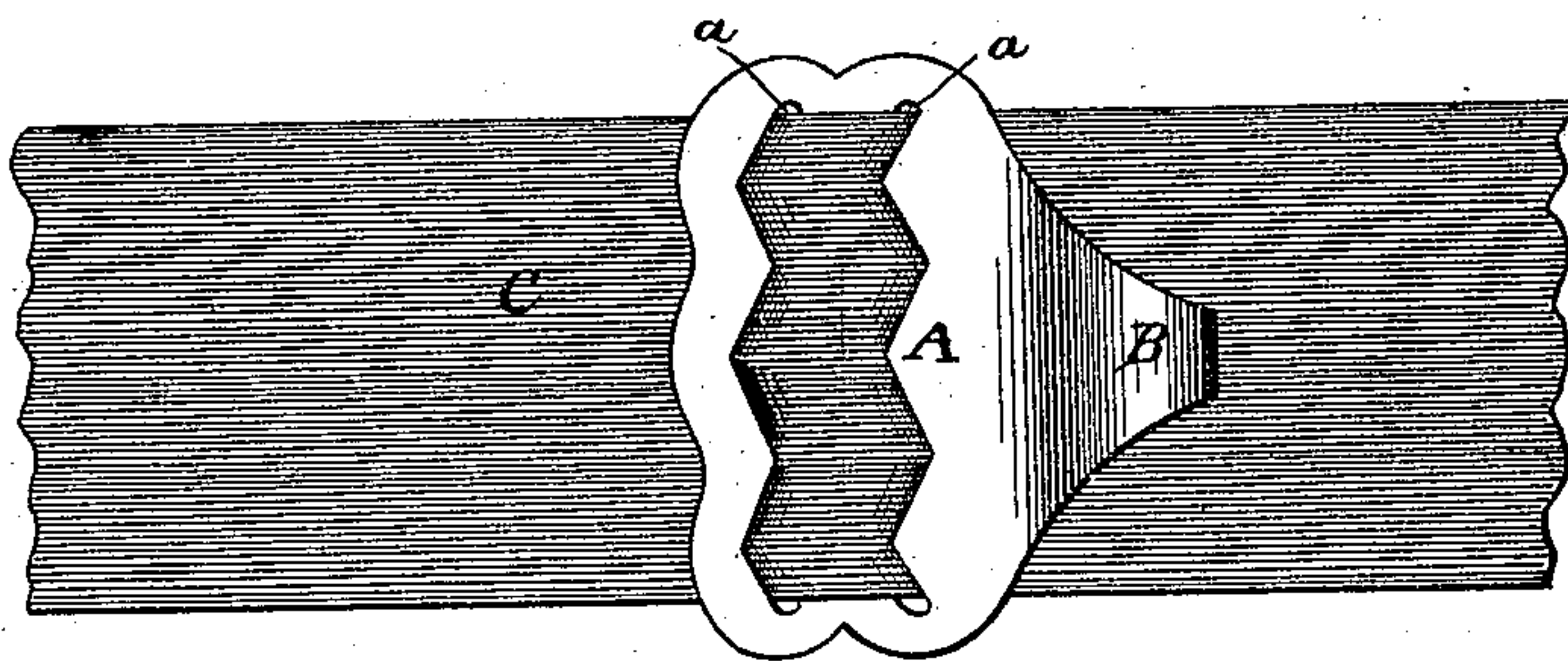
No. 193,303.

Patented July 17, 1877.

*Fig. 1.*



*Fig. 2.*



WITNESSES

*Henry N. Miller*  
*Joseph A. Wildman*

INVENTOR

*Seth Ward*  
*Alexander Mason*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

SETH WARD, OF PRINCETON, INDIANA.

## IMPROVEMENT IN BUCKLES.

Specification forming part of Letters Patent No. **193,303**, dated July 17, 1877; application filed December 14, 1876.

*To all whom it may concern:*

Be it known that I, SETH WARD, of Princeton, in the county of Gibson, and in the State of Indiana, have invented certain new and useful Improvements in Buckles; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a buckle, which may be used for the same purposes for which other buckles are used, either on cloth, webbing, or leather, and which may be used in combination with various articles of harness-mountings, such as snap-hooks, rein-runners, backband-hooks, &c., as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a perspective view of my buckle. Fig. 2 is a plan view of the same.

My buckle differs from others in this, that it has neither tongue nor teeth, and will, perhaps, give a more uniform strain on the strap than the buckles now generally in use. It is made of a single plate of metal, A, having two irregular slots, *a a*, extending through the body of the plate. At one side of the plate A is formed a hook, B, or an eye may be formed in the plate for the purpose of sewing into it a strap, the two irregular slots forming the buckle proper.

C is the strap passed through the irregular slots *a a*, as shown in Fig. 2. If two straight slots are made in a metal plate, giving sufficient room to pass a strap through both slots, when the strap is pulled it would slip through; but if the slots were made in semicircular shape,

and the strap passed through, then, if the strap were pulled smoothly, it would be found that the strap would hold with considerable tenacity, because, as the strap is passed through the first semicircular slot, the edges of the strap must be curved to suit the shape of the slot. The strap must next be curved in the opposite way before passing it through the other slot, so that while the strap might be inclined to slip through the one, it is counteracted by the other, from the fact that the shape given the strap in passing through the first slot must be entirely reversed before it passes through the other. This of itself would make a buckle of almost sufficient tenacity for all ordinary purposes, but by multiplying the semicircles in shaping the slots, the tenacity of the buckle is much more increased, and by making sharp angles the tenacity is still much more increased, thereby making a good and secure fastening, and producing a very uniform strain on the strap.

Two slots, of any irregular shape desired, formed in a metal plate will, of course, produce similar results.

The slots *a a* should conform in shape to each other to produce the most satisfactory results.

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

The within-described buckle, consisting of a metal plate, A, provided with two irregular slots, *a a*, with serrated edges, and having a hook, eye, or other device formed at one side, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 6th day of December, 1876.

SETH WARD. [L. S.]

Witnesses:

G. W. TREGO,

JAMES H. MCGARRAH.