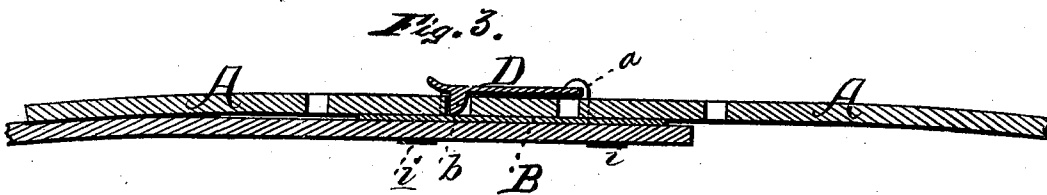
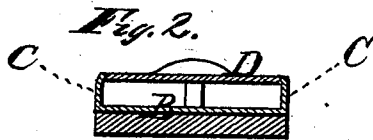
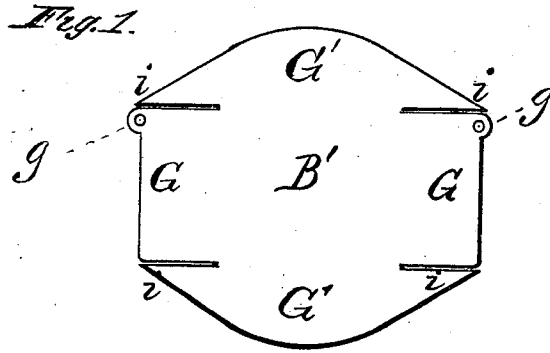


W. E. ASTON.
BUCKLES.

No. 171,543.

Patented Dec. 28, 1875.



WITNESSES

Robert Emmett
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UNITED STATES PATENT OFFICE

WILLIAM E. ASTON, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN BUCKLES.

Specification forming part of Letters Patent No. **171,543**, dated December 28, 1875; application filed November 27, 1875.

To all whom it may concern:

Be it known that I, WILLIAM EDWARD ASTON, of Brooklyn, in the county of Kings and State of New York, have invented a new and valuable Improvement in Buckles; 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 annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my buckle. Fig. 2 is a transverse vertical sectional view of the same, and Fig. 3 is a longitudinal vertical central sectional view thereof.

This invention has relation to buckles. The novelty consists in the combination of a metal plate having raised spring clasp-flanges on its lateral edges, with a tongue-plate hinged to one end of the flanges, and having vibratory motion, whereby means are provided for securing the same when the said tongue-plate is thrust below the spring-flanges, all as hereinafter shown and described; also, in the bed-plate having raised spring-flanges, ears, and clinching-points, all made of one piece of metal.

In the annexed drawings, the letter A designates a strap having small perforations arranged at suitable distances apart, for a purpose hereinafter described, and to one end of which is rigidly secured a metallic bed-plate, B, secured to the same by means of metal points projecting from the under side, and passing through the strap to which it is clinched. C designates spring-flanges arranged on the lateral edges of bed-plate B, for a purpose hereinafter explained. *a a* designate small perforations made in one end of the flanges C, and designed to receive the journals of a tongue-plate, D, by which means it has vibratory motion. *b* designates a metal point projecting downward from the tongue-plate, and designed to be received in the perforations above described in the strap.

It will be seen that the advantage possessed by my improved buckle is that the bed-plate, being provided with spring-flanges C, the tongue-plate D, when thrust down against the said flanges, will cause the flanges to yield and allow the said tongue-plate to pass between them, thereby holding it firmly in position.

It will also be seen that when the tongue-plate is in the position above described, the metal point *b* passing through the perforation in the strap will hold it rigidly in position against displacement.

In practice the bed-plate blank B' is constructed of one piece of metal, having upon its lateral edges extensions G, provided with perforated lugs *g*, which extensions, when bent up, will form the spring-flanges C. It has also, upon its ends, similar extensions G', which are provided with points *i*, which, when bent downward, will form the clinching-points *i*, by means of which the said bed-plate is secured to the strap. This blank will be struck out of a piece of sheet metal of suitable thickness at a single stroke of a die, and the bed-plate will be formed by bending the lateral extensions G upward to form flanges C, and the points *i* downward to provide means of attachment to the strap.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a buckle, the combination of the metallic bed-plate B, having raised spring clasp-flanges C and a hinged tongue-plate, D, substantially as specified.

2. The blank B' having lateral extensions G, with perforated lugs *g* and end extensions G', with points *i* adapted for use, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

Witnesses: WILLIAM E. ASTON.
D. B. TREADWELL,
THOMAS E. CRANE.