(No Model.)

G. E. ADAMS.

BUCKLE.

No. 457,895. Patented Aug. 18, 1891.

Fig. 1.

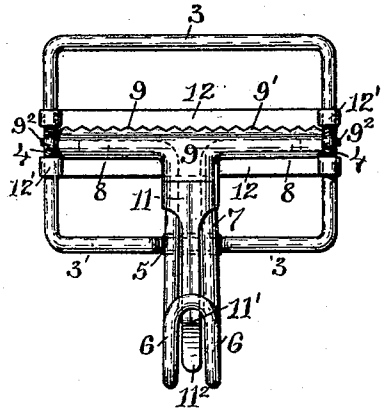
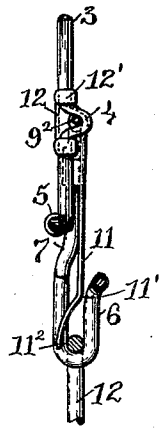


Fig. 2.



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UNITED STATES PATENT OFFICE.

GEORGE E. ADAMS, OF PROVIDENCE, RHODE ISLAND.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 457,895, dated August 18, 1891.

Application filed May 21, 1891. Serial No. 393,564. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. ADAMS, of the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Buckles; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in the manufacture of wire suspender-buckles.

The object of this invention is to produce an improved suspender-buckle which can be made of wire.

The invention consists in the peculiar and novel construction of the parts and the combination of the same to form a buckle, as will be more fully described hereinafter, and pointed out in the claim.

Figure 1 is a front view of the improved buckle. Fig. 2 is a side view of the same to more clearly show the bearing formed from the buckle-frame, in which is journaled the shaft on which the clamping device turns, a portion of the hook being broken away to show the engagement of the throw-off ring with the hook-tongue.

Similar numbers of reference designate corresponding parts throughout.

In carrying out my invention I take a piece of wire 3 and bend it into the shape shown in the drawings, having the raised loops 4 4 somewhat flattened in their cross-section to form bearings. The ends of the wire are brought together at the center of the lower side of the frame and are bent backward to form a recessed portion 5. These ends are secured together by a piece of thin sheet metal wrapped around them and fastened by solder. I then take a piece of wire and bend it to form the hook 6, having the bent shank 7 and cross-arms 8 8. (Indicated by dotted lines in Fig. 1.) The clamping-piece 9 is formed of sheet metal and has the serrated edge 9′ and the shafts 9^2 9^2 formed in part therewith, and this clamping-piece is secured to the cross-arms 8 8 of the hook 6 by having a portion of the clamping-piece bent around the arms 8 8 and other portions bent around the upper portion of the shank 7. The spring-tongue 11 is formed of sheet metal and at its upper end has arms which are bent around the shank 7 to secure said tongue thereto in the position shown. This tongue 11 has the jaw 11′ bent outward therefrom, which partially closes the hook and retains therein the throw-off ring 12, a somewhat strong upward pull on which will force the tongue 11 backward without being pressed by the hand, the extension 11^2 of the tongue 11 below the jaw 11′ being sufficient to prevent the throw-off ring from passing behind the same. I now place the shafts 9^2 9^2 of the clamping-piece 9 in the bearings formed by the loops 4 4 and secure them in place by means of the back plates 12, having the ends 12′ 12′, which are bent over the ends of the buckle-frame.

By the construction thus described I am able to produce an inexpensive but very strong and durable buckle. By means of the projecting bearings 4 4, together with the recessed portion 5 and the shape of the hook-shank 7, any pull on the hook will be in a direction on a line with the center of the bearings 4 4, which, being formed in one piece with and of the same size as the wire 3, are unusually strong.

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

In a suspender-buckle, the combination, with the wire frame 3, having the bearings 4 4 bent up therefrom and the recess 5 in the lower side thereof, of the wire hook 6, having the shank 7 and arms 8 8 secured to the clamping-piece 9, having the serrated edge 9′, and the shafts 9^2, journaled in the bearings 4 4 and held in place by the back plate 12, as described.

In witness whereof I have hereunto set my hand.

GEORGE E. ADAMS.

Witnesses:

HENRY J. MILLER,

JOSEPH A. MILLER, Jr.