

(No Model.)

L. DYER.  
BUCKLE.

No. 489,859.

Patented Jan. 10, 1893.

Fig. 1.

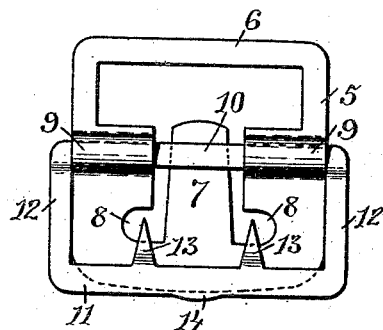


Fig. 2.

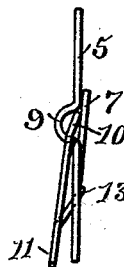


Fig. 3.

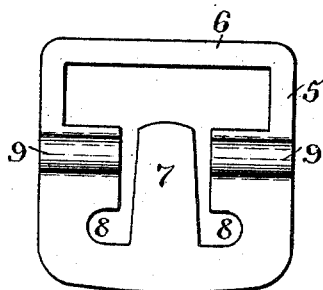
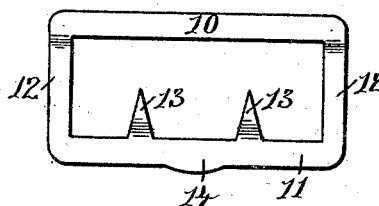


Fig. 4.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

LUCIUS DYER, OF MILLBRIDGE, MAINE, ASSIGNOR TO SCHOTT BROTHERS,  
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## BUCKLE.

SPECIFICATION forming part of Letters Patent No. 489,859, dated January 10, 1893.

Application filed May 20, 1892. Serial No. 433,659. (No model.)

### *To all whom it may concern:*

Be it known that I, LUCIUS DYER, of Millbridge, in the county of Washington and State of Maine, 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 buckles especially adapted for use on vest and trouser straps.

The object of the invention is to produce a buckle which shall be simple in construction and effective in operation, the cost of manufacture being reduced to a minimum.

The invention consists in certain peculiar features of construction of the buckle-frame and the combination therewith of the novel clamping and securing device, as will hereinafter be more fully described and pointed out in the claims.

Figure 1 represents a view of the complete buckle. Fig. 2 represents an edge view of the same. Fig. 3 represents a front view of the buckle-frame. Fig. 4 representing a similar view of the clamping or securing device.

Similar numbers of reference designate corresponding parts throughout.

In carrying my invention into effect, I take a flat piece of metal and stamp therefrom the frame 5, the central portion of which is cut away leaving a narrow securing-bar 6 around which a strap may be permanently secured, and a tongue 7 extending inward from the lower or forward end of the buckle-frame; this tongue 7 being subsequently tempered,—at each side of the base of this tongue the metal is cut away to leave the openings 8—8. I now raise, or bend, the central portions of the frame upward to form the bearings 9—9 on each side of the tongue 7 and at right angles therewith.

The securing device is formed by stamping from a piece of sheet-metal a frame, slightly longer than the width of the buckle-frame, having the bars 10 and 11 connected by the sides 12—12, the bar 10 being bent at

a slight angle to the surface of the frame, and the bar 11 having the inwardly-extending prongs 13—13, which are also bent at an angle with the frame, the points of these prongs being such a distance apart as will enable them to pass through the openings 8—8 when the securing device is placed in position,—the bar 11 is also furnished with a small thumb-piece 14 to assist in lifting the securing device away from the frame.

The parts forming the buckle are secured together by introducing the bars 10 between the concave surfaces of the bearings 9—9 and the upper surface of the spring-tongue 7,—when in the position shown in the drawings, the tongue bears against the outer edge of this bar and throws the prongs 13—13 into the openings 8—8 through which the points project. The strap to be secured is brought first under the bar 11 and may then be passed through the large opening in the frame 5. When a cloth strap is used, the prongs 13—13 readily engage with and penetrate the same, but when using a leather or other strap, I sometimes punch holes therein through which these prongs may extend. By this construction a very simple and convenient buckle is formed, which, being flat, will not be uncomfortable to the wearer.

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

1. A buckle consisting of a frame formed of sheet-metal having a securing-bar at one end, concaved bearings near the middle, and a spring-tongue extending from near the opposite end between the concaved bearings, and a securing-frame having a hinge-bar adapted to be inserted in the concaved bearings and held by the spring-tongue, the frame being provided with prongs adapted to secure the strap, as described.

2. The combination with the frame 5 having the bar 6, bearings 9—9, the spring-tongue 7, and provided with openings 8—8 at either side of the tongue, of a securing device formed of the bars 10 and 11 connected by the sides 12—12, and the bent prongs 13—13 extending

inward from said bar 11, as and for the purpose described.

3. In a buckle, the combination with a buckle-frame having bearings bent up there-  
5 from, of a securing-frame formed of the bars 10 and 11 and sides 12—12, the prongs 13—13 extending inward from the bar 11, and means

for retaining the bar 10 in said bearings of the buckle-frame, for the purpose described.

LUCIUS DYER.

Witnesses:

GEO. E. GOOGINS,  
WILLIAM HIGGINS.