

APPLICATION FILED JULY 31, 1907..

Patented Oct. 13, 1908.

This technical drawing shows a side view of a mechanical device, possibly a belt buckle or clasp. The device consists of a central rectangular body (1) with a complex internal mechanism. Key components are labeled with numbers 1 through 11. On the left, a strap (11) is attached, featuring a series of vertical lines (8) and a small circular element (S^2). On the right, another strap (11) is attached, also with vertical lines (8) and a circular element (Q). The central body has a rectangular opening (10) and a smaller circular opening (5). The device is shown in a perspective view, with the top and bottom surfaces also visible.

A technical drawing of a mechanical assembly, likely a valve or actuator mechanism. The drawing shows a cross-section of the assembly. Key components are labeled with numbers: 1 points to the main body or housing; 2 points to a small component at the right end; 3 points to a central piston or plunger; 4 points to a seal or gasket; 5 points to a component below the piston; 6 points to a component below the piston; 7 points to a component at the left end; 8 points to the outer casing or housing; and 9 points to a component at the right end. The drawing is a black and white line drawing with hatching used to indicate different materials or sections.

Similar.  
Mary Busch

Eugene Pearl,

# UNITED STATES PATENT OFFICE.

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## BUCKLE.

No. 900,774.

Specification of Letters Patent.

Patented Oct. 13, 1908.

Application filed July 31, 1907. Serial No. 386,468.

*To all whom it may concern:*

Be it known that I, EUGENE PEARL, a citizen of the United States, residing at Passaic, in the county of Passaic and State of New Jersey, have invented new and useful Improvements in Buckles, of which the following is a specification.

My invention relates generally to buckles and as herein embodied, is designed to produce a device of this class specially adapted for use on belts, garters etc., etc.

Several forms of a buckle suitable for carrying my invention into effect, are illustrated in the accompanying drawings in which

Figure 1 is a plan view of a buckle constructed in accordance with my invention, the end portions of a strap being shown in connection therewith. Fig. 2 is a sectional view thereof, taken on the line  $s^1$ ,  $s^2$ , of Fig. 1. Fig. 3 is a perspective view of the buckle detached. Fig. 4 illustrates a slightly modified form of the buckle, and Fig. 5 shows a further modification.

Referring now to the drawings, 1 represents the buckle, which, in the preferred form, consists of a rectangular frame 2, having about centrally of its length, a cross bar 3, to which one end 4 of a belt, garter or strap may be attached in the usual manner by a line or two of stitching, as shown in Fig. 4. Preferably, the strap is provided with an opening 5 for engagement with a hook-like projection 6 of the cross bar 3, as shown in Fig. 2. The frame of the buckle is curved somewhat to throw the ends 7 thereof outward, so that when the free end of the strap is passed through the buckle, it will lie flat and be held against bulging, working loose etc. The free end of the strap is secured by having a series of openings 8 formed therein, for engagement with an integral projection or fixed tongue 9 of the frame. This projection or tongue may lie within the frame, as shown in Figs. 1 to 4 inclusive, or outside the same, as in Fig. 5. In either case, it extends in a direction opposite the pull of the free end of the strap and under ordinary conditions, forms a se-

cure fastening. After the strap has been in use for a time and has become somewhat drawn out or stretched, the openings 8 therein, undergo a corresponding change in shape and take a more or less elongated form, which frequently results in disengagement from the tongue, when the latter is of uniform width throughout its length or tapered toward its outer end. In order to overcome this difficulty, I provide both the tongue and the hook 6 with a terminal enlargement or head 10, preferably of heart or other suitable shape to present retaining shoulders 11, which act to render the fastening secure under all conditions and at the same time, permit the strap to be readily disengaged by hand.

The various advantages of my invention as well as the mode of operation will be readily understood from the foregoing description.

Having, therefore, described my invention, I claim:

A buckle comprising an open rectangular frame, the outer face of which is concaved from end to end to reduce curvature of the strap, a cross bar integrally formed with said frame, a centrally disposed projection bent upwardly and then inwardly and terminating in an approximately heart-shaped head, said heart-shaped head lying in a horizontal plane above said cross bar and a second similarly formed projection extending inwardly from one of the end bars of the frame in a direction opposite that of the first named projection, said latter projection also terminating in an approximately heart-shaped head which lies substantially in the plane of the bar by which it is carried.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses, this 29th day of July 1907.

EUGENE PEARL.

Witnesses:

CHAS BUSCH,  
MARY BUSCH.