

(No Model.)

P. A. RAYMOND.
BUCKLE.

No. 494,086.

Patented Mar. 21, 1893.

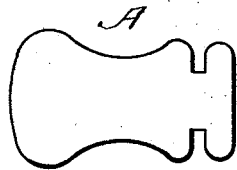


Fig - 1 -

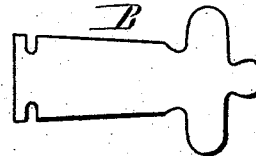


Fig - 2 -

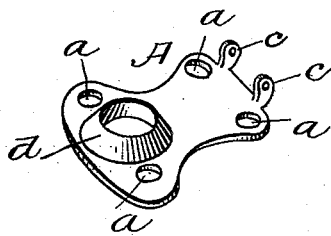


Fig - 3 -

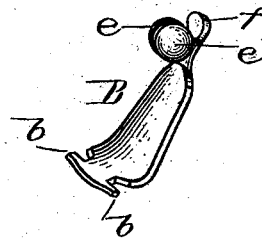


Fig - 4 -

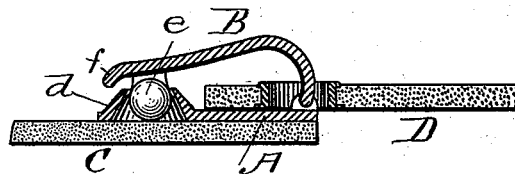


Fig - 5 -

WITNESSES
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UNITED STATES PATENT OFFICE.

PIERRE ALBERT RAYMOND, OF GRENOBLE, FRANCE, ASSIGNOR TO THE
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BUCKLE.

SPECIFICATION forming part of Letters Patent No. 494,086, dated March 21, 1893.

Application filed November 14, 1892. Serial No. 451,996. (No model.)

To all whom it may concern:

Be it known that I, PIERRE ALBERT RAYMOND, a citizen of the French Republic, residing at Grenoble, Department of Isère, France, have invented certain new and useful Improvements in Buckles, of which the following, with the accompanying drawings, is a full specification.

My invention relates to that class of buckles used on gloves, garments, and the like, and consists in certain improvements in construction which are hereinafter pointed out in detail.

Referring to the accompanying drawings wherein like letters represent like parts: Figures 1 and 2 are plans showing the shape of the blanks from which are struck up the base plate and tongue, respectively. Figs. 3 and 4 are perspective views of base plate and tongue respectively. Fig. 5 is a section showing my buckle attached to the material of glove or other article.

My buckle is made from two pieces of sheet metal; A and B Figs. 1 and 2, showing the shape of the blanks. The base plate Fig. 3, is formed from A, Fig. 1, by punching the ears *c c* and bending them up so that they are parallel to each other and at right angles to the plane of the base plate; by punching the four holes *a a a a* for sewing or otherwise attaching the plate to the edge of the glove or other article; and by punching the hole *d* and striking up its edges in the form of a truncated cone; all of which is shown in Fig. 3.

The tongue piece, Fig. 4, is formed from the blank B, Fig. 2, by dishing the ears *e e* and bending them around with their concave sides together, so that the two form on the under side of the tongue a stud having the form of a hollow split sphere; by bending the longitudinal edges of the tongue slightly inward, giving it a slightly curved cross-section and hence greater stiffness; by curving the pivot end inward at about right angles to direction of tongue; and by bending the tip *f* slightly inward, shown in Figs. 4 and 5.

The buckle is put together by springing the pivots or trunnions *b b* into the holes in the ears *c c* of the base plate. The parts are so proportioned that, when the tongue is shut down on the base plate, the split hollow sphere comes directly over the hole or socket *d*. The diameter of the sphere is made a

trifle larger than that of the socket so that said sphere has to be sprung in or out of said socket, the necessary resilience being obtained in the split sphere.

Fig. 4 shows the buckle attached to one edge of the glove or other article, while on the other edge is attached any common form of eyelet through which the tongue may pass. It may be seen that the edges of the article may be drawn together with considerable force with my buckle, it being only necessary to bring the edges near enough to insert the end of the tongue *b* when wide open in the eyelet of the other edge. The tongue is then forced up and over, drawing the edges together with a leverage that increases as the edges are drawn nearer together. When the tongue is completely shut down on the base plate there is hardly any tendency to throw it up, due to its shape and connections, and the locking sphere and socket *e* and *d* render it absolutely impossible to unclasp the buckle by any lateral strain on the edges of the material, although this is very easily accomplished by lifting up the end *f*.

The simplicity and small number of parts of my buckle, together with its ease of attachment and operation, and firmness when closed, render it a very desirable article of manufacture.

I claim--

1. An improved buckle for gloves and other articles, consisting of a base plate having on its upper side a struck up socket in combination with a tongue provided with a spherical elastic stud on its free end, said tongue being pivoted to the plate at its opposite end, substantially as described.

2. An improved buckle for gloves and other articles, made in two pieces, consisting of a base plate provided with a socket and a tongue having on its lower side a resilient struck up spherical stud formed integral with the tongue on its free end, said tongue being pivoted to the plate at its opposite end, substantially as described.

In witness whereof I have hereunto set my hand.

PIERRE ALBERT RAYMOND.

Witnesses:

A. DIEHAU,
J. HAS.