

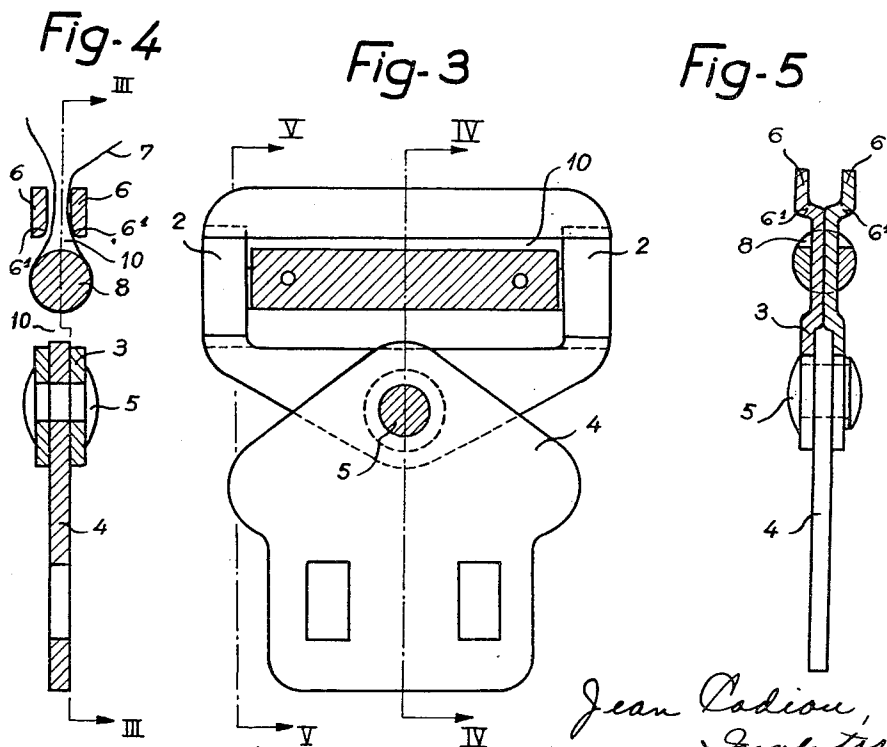
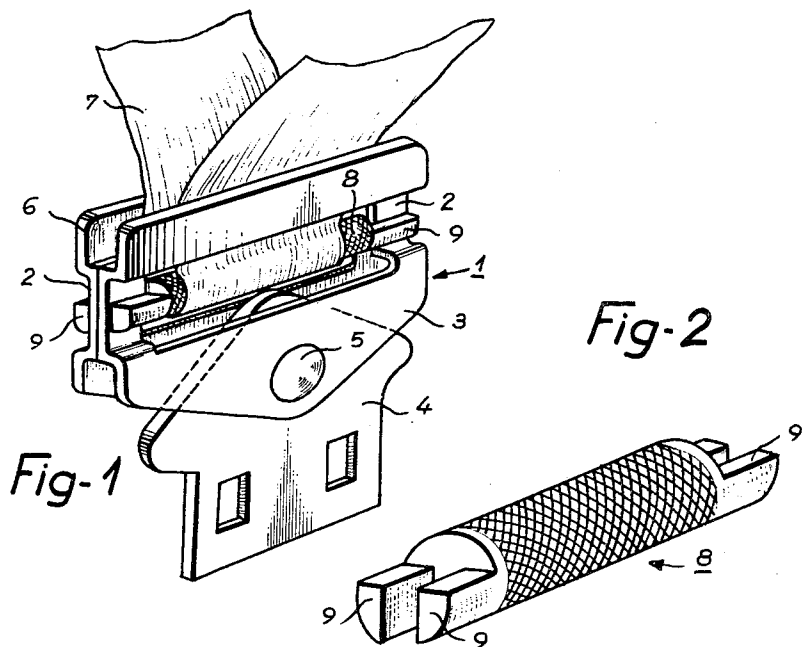
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J. CADIOU

3,209,424

LOOPEO STRAP BUCKLE

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3,209,424

LOOPED STRAP BUCKLE

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4 Claims. (Cl. 24—196)

This invention relates to a buckle for safety belts which can restrain the movement of a web in two directions.

In safety belts of this type, the buckle systems comprise members for adjusting the length of the webbing, which are frequently objected to because they are efficiently locked in only one direction. Now cases may arise wherein it may be desirable to lock the device against release in both directions.

To this end, the present invention provides improvements in safety belts or harnesses of this type which consist notably in forming a double loop in the webbing and in addition to providing on the locking member a surface having a certain roughness, for instance by knurling, milling, etc.

It is another improvement characterizing the buckle means of this invention that it can pivot and to this end the buckle associated with the bolt plate is divided into two parts, one carrying the device for adjusting the length of the webbing and the other constituting the bolt plate proper. These two parts are assembled through a pivot pin or through permanent swivel means.

In order to afford a clearer understanding of this invention, a typical form of embodiment thereof will now be described by way of example with reference to the accompanying drawing, in which:

FIGURE 1 is a perspective view showing the buckle assembly;

FIGURE 2 is a detail view showing the locking pin;

FIGURE 3 is a side elevational view, with parts broken away, of the complete pivotal assembly; and

FIGURES 4 and 5 are sections taken upon the lines IV—IV and V—V of FIG. 3 respectively.

As clearly shown in the drawing, and notably in FIGURE 1, the pivotal mounting comprises a buckle 1 consisting of two sheet-metal blanks pressed, bent and welded together along their registering inner flat faces 2 in order to constitute on one side a strap 3 on which a bolt 4 is pivotally connected by means of a pin or rivet 5, and on the other side two parallel flanges 6 adapted to receive therebetween the two sides of the retaining webbing 7.

Actually, the flat intermediate portions 2 exist only at the two lateral ends of the buckle in order to provide a central inner recess 10 (FIGURE 3) in which a knurled cylindrical pin 8 is adapted to move by sliding along said lateral portions 2 by means of slotted ends 9.

As shown in FIGURE 4, the cavity 10 in the inter-

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mediate portion 2 is so dimensioned that the webbings 7 pass through the flanges 6 and over the pin 8. The inner lower contours 6¹ of said flanges 6 are rounded to avoid damaging the webbing 7.

When the pin 8 is moved away from the flanges 6, the webbing 7 can slide to permit the desired adjustment.

When the pin 8 is pulled toward the flanges 6, the webbing 7 is firmly locked against movement in either direction.

Of course, various changes may be brought in the practical embodiment of the device shown and described herein, without departing from the spirit and scope of the invention as set forth in the appended claims.

I claim:

1. A safety belt buckle assembly comprising a pair of blanks, said blanks having each a central coinciding recess formed by longitudinal sides, said blanks being secured together at their longitudinal sides, the lateral sides of each blank at one end of said buckle being spaced apart to form a slot, said slot communicating with said coinciding recesses, a sliding pin in said coinciding recesses having its ends slotted to extend externally of said blanks for manual manipulation, said slot permitting the passage of two plies of a web which passes over said sliding pin whereby a manual movement of said pin towards said slot causes a twofold wedging of said web between said pin and each edge of said slot to prevent movement of said web in any direction.

2. A safety belt buckle assembly as set forth in claim 1 wherein a bolt is pivotally connected to the lateral sides of said blank opposite said slot.

3. A safety belt buckle assembly as set forth in claim 1 wherein the surface of said pin is roughened.

4. A safety belt buckle assembly as set forth in claim 1 wherein each slotted end of said pin provides spaced abutments which slide upon said blanks at opposite sides of said recess.

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