S. BUCHSBAUM.

BELT BUCKLE.

APPLICATION FILED JAN. 31, 1921.

1,387,919.

Patented Aug. 16, 1921.

2 SHEETS—SHEET 1.

Fig. 1.

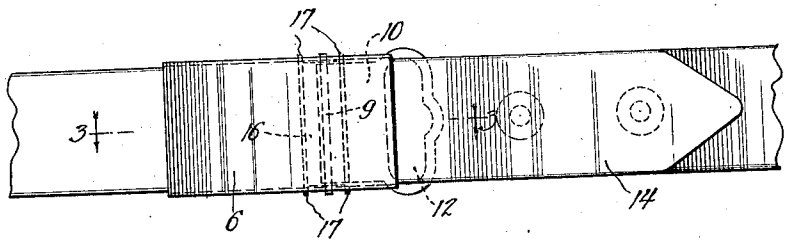


Fig. 2.

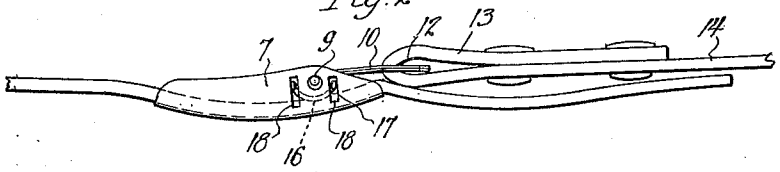


Fig. 3.

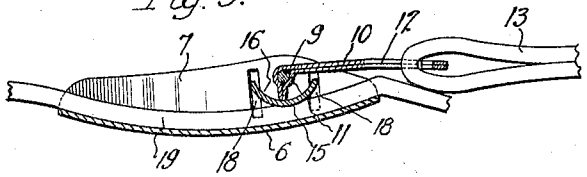


Fig. 4.

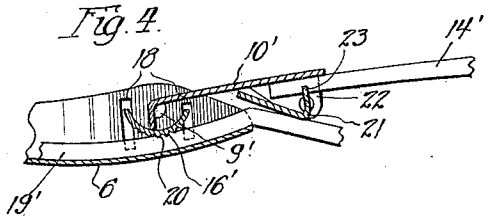
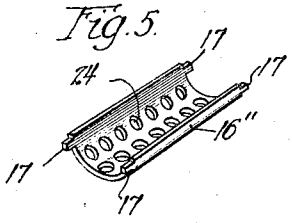


Fig. 5.



Inventor
Samuel Buchsbaum.
By Gabel & Mueller Attys.

S. BUCHSBAUM.

BELT BUCKLE.

APPLICATION FILED JAN. 31, 1921.

1,387,919.

Patented Aug. 16, 1921.

2 SHEETS—SHEET 2.

Fig. 6

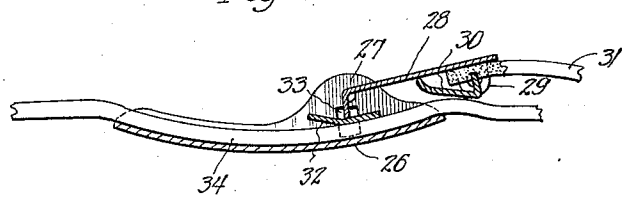


Fig. 7.

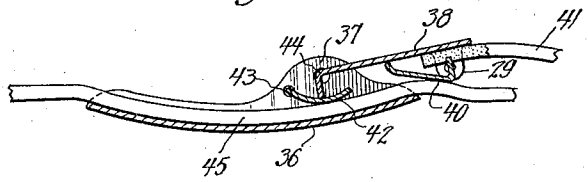


Fig. 8.

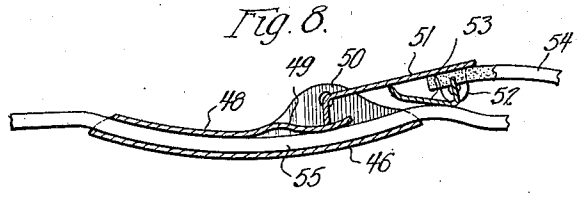
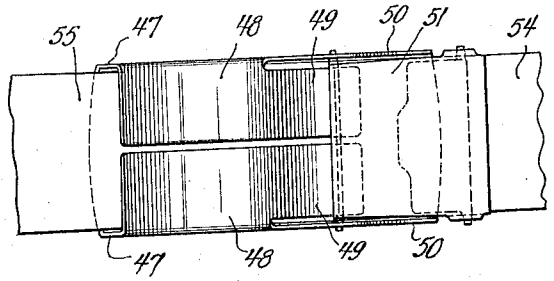


Fig. 9.



Inventor.
Samuel Buchsbaum.

By Gabel & Mueller Attys.

UNITED STATES PATENT OFFICE.

SAMUEL BUCHSBAUM, OF CHICAGO, ILLINOIS.

BELT-BUCKLE.

1,387,919. Specification of Letters Patent. Patented Aug. 16, 1921.

Application filed January 31, 1921. Serial No. 441,232.

To all whom it may concern:

Be it known that I, SAMUEL BUCHSBAUM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Belt-Buckles, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to belt buckles and more particularly to a belt buckle provided with a knuckle joint clamping lever.

It is a purpose of the invention to provide a belt buckle with clamping means comprising a curved belt clamping element that is slidably and tiltably mounted in the front plate of the buckle and which is adapted to be moved into engagement with the belt by means of a clamping lever having an angular end portion adapted to engage the concave face of said clamping element.

It is a further purpose of the invention to so construct a belt buckle that very little power need be applied to the clamping lever in order to clamp the belt end therein, and in which the belt will readily slide when the clamping lever is released.

It is a still further object of the invention to provide a belt buckle with a clamping means wherein the clamping lever does not contact with the belt and consequently no marring of the belt will occur.

Other objects and advantages of the invention will appear as the description of the accompanying drawings showing several forms that my invention may take, proceeds. However, I desire to have it distinctly understood that I do not intend to limit myself to the exact details of structure shown in the drawings and described in the specification, but intend to include as part of my invention, all such obvious changes and modifications of structure as would occur to a person skilled in this art and as would fall within the scope of the claims.

In the drawings:—

Figure 1 is a front elevation of the improved belt buckle showing the same applied to a belt, the belt being partly broken away;

Fig. 2 is an edge view thereof, looking at the side edge of the belt;

Fig. 3 is a longitudinal sectional view of the buckle taken on line 3—3 of Fig. 1;

Fig. 4 is a fragmentary longitudinal sectional view of a modified form of buckle;

Fig. 5 is a perspective view of a further modified form of clamping element;

Fig. 6 is a view similar to Fig. 3 of a modified form of belt buckle;

Fig. 7 is a similar view of a further modified form;

Fig. 8 is a similar view of a still further modified form; and

Fig. 9 is a rear face view of the form of buckle shown in Fig. 8.

Referring in detail to the drawings, the improved belt buckle comprises a front plate 6 curved longitudinally as shown in Figs. 2 and 3 and provided with rearwardly extending side flanges 7 that are provided with suitable openings for the pivot pin 9 which is carried by the clamping lever 10 which is preferably formed as shown in Fig. 3 so as to provide an eye at 11 to receive the pin 9 and having an elongated eye at the end portion thereof at 12 to receive the loop 13 on the belt extremity 14.

It will be seen from Fig. 3 that the clamping lever comprises a long arm and a short arm extending at substantially right angles to each other. The short arm 15 is adapted to engage a belt clamping member 16 which is curved as shown in Figs. 2 and 3 and which is provided with end portions or lugs 17 that are adapted to operate in slots 18 provided in the flanges 7.

The lugs 17 do not fit snugly in the slots and have a loose sliding movement therein so that the clamping member 16 will slide toward the front plate 6 and will also rock slightly relative thereto when the clamping lever 10 is moved in a clockwise direction into the clamping position shown in Fig. 3.

The member 15 moving along the concave face of the clamping plate 16 will draw the same by a combined sliding and rocking movement into clamping position relative to the free belt extremity 19. By this arrangement, the clamping lever does not contact with the belt extremity and thus any scraping or biting action thereof which would injure the belt is removed, the clamping plate 16 being smooth and being rounded on a gradual curve will not injure the belt in any way.

When the clamping lever 10 is moved in counterclockwise direction, the clamping plate 16 will be released and will move away from the plate so as to loosely contact with the same and permit withdrawal of the belt end 19 from between the clamping plate and

the front plate. The clamping plate may be provided with serrations or grooves or roughened portions 20 as is shown for the clamping member 16′ in Fig. 4, the member 16′ being mounted in the front plate 6 in slots 18 provided in the side flanges 7 in a similar manner to the mounting of the plates 16 in Fig. 3.

The clamping lever 10′ in this form is shown as having an integral pivot member 9′ and is provided at the extremity thereof with a gripping member 21 pivoted to ears 22 and having teeth 23 that are adapted to grip the belt extremity 14′, it being, of course, understood that the free belt extremity 19′ is gripped between the front plate 6 and the clamping member 16′ in a manner similar to that of the belt extremity 19. Instead of providing grooves or serrations to provide gripping means on the clamping plate, the holes or openings 24 may be provided as shown in Fig. 5 in the clamping plate 16″.

In Fig. 6 is shown a belt buckle having a front plate 26 curved longitudinally, and provided with rearwardly extending side flanges 27 between which is pivoted the clamping lever 28 which comprises a long arm and a short arm as previously described. The long arm is provided with ears 29, carrying the belt gripping means 30 engaging the belt extremity 31. The short arm of the clamping lever is adapted to engage a belt clamping member 32 which is curved as shown and which is provided with means engaging a guide slot 33 in each of the ears 27 in a similar manner as shown in Figs. 1 to 5 except that a single guide slot is used on each side. As the lever 28 is swung clockwise the short end thereof is adapted to move the belt clamping member 32 toward the front plate 26 and clamp the belt extremity 34 between the said belt clamping member and front plate.

In Fig. 7 is shown a further modified form wherein the curved front plate 36 is provided with rearwardly extending side flanges or ears 37 between which is pivoted the clamping lever 38 which again comprises a long and a short arm, said clamping lever being provided on its long arm with ears 39, carrying belt gripping means 40, engaging belt extremity 41. The short arm of the lever 38 engages with a belt clamping member 42, which is curved as shown and is pivoted between the ears 37 as at 43, said pivots being located to one side of the pivots 44 of the lever 38, so that the curved belt clamping member 42 will move toward the front plate 36 when the lever 38 is moved clockwise so as to clamp the belt extremity 45 between said clamping member 42 and said front plate.

In Figs. 8 and 9 is shown a buckle having a curved front plate 46, side members 47 and portions 48 bent toward each other to form a rear plate for said buckle, the members 48 are provided with extensions 49 curved as shown in Fig. 8, said extremities 49 forming curved resilient tongues integral with the front plate. The side members 47 are also extended to form rearwardly projecting ears 50 between which is pivoted the lever 51 having its long arm provided with ears 52 between which is pivoted belt end gripping member 53 engaging belt end 54. When the lever 51 is turned clockwise the short arm engaging the curved tongues 49 thereof is adapted to move said tongues toward the front plate 46 and clamp the belt end 55 between the tongues and the front plate, the tongues having sufficient resiliency to permit this action.

From the above it will be seen that a belt buckle has been provided that will grip the free belt extremity securely without in any way injuring the same and without there being any contact between the pivoted member or clamping lever and the belt extremity, thus avoiding all wear between the clamping lever and the belt extremity.

Having thus described my invention what I claim and desire to secure by United States Letters Patent is:

1. A belt buckle of the character described comprising a front plate, a clamping plate having a smooth curved belt engaging portion mounted for movement toward and away from said front plate, and means for moving said clamping plate toward said front plate, said clamping plate being mounted independently of said last mentioned means.

2. A belt buckle of the character described comprising a front plate, a curved clamping plate mounted for movement toward and away from said front plate, said clamping plate having its convex face adjacent said front plate, and a lever having an end portion adapted to engage the concave face of said clamping member for moving said clamping plate toward said front plate, said clamping plate being mounted independently of said clamping lever.

3. A belt buckle of the character described comprising a front plate, a curved clamping plate mounted for movement toward and away from said front plate, said clamping plate having its convex face adjacent said front plate, and an angular lever pivotally mounted on said front plate at the angle thereof and having an end portion engaging the concave face of said clamping plate for moving said clamping member toward said front plate, said clamping plate being mounted independently of said clamping lever, said clamping lever being provided with means to secure a belt extremity thereto at the opposite end thereof.

4. A belt buckle of the character described comprising a front plate, a sheet metal clamping member pivotally mounted on said front plate adjacent one end thereof, said clamping member having a curved portion with the convex side thereof facing the belt, and a clamping lever having a short angular end portion pivotally mounted on said front plate, said clamping lever being provided with means to secure a belt extremity thereto at one end thereof and engaging said clamping member at the short angular end thereof to move said clamping member toward said front plate to clamp the free end portion of the belt between the curved portion of said clamping member and said front plate, whereby the edge portion of said clamping member is prevented from contacting with said belt.

5. A belt buckle of the character described comprising a front plate having side flanges, a clamping plate pivotally mounted between the side flanges of said front plate, said clamping plate having a curved portion the convex side of which faces said front plate, and a clamping lever pivotally mounted between said side flanges, said clamping lever having an angular end portion engaging the concave side of said clamping plate to force said clamping plate toward said front plate and being provided with belt end securing means at the other end thereof.

6. A belt buckle of the character described comprising a front plate having side flanges, a clamping plate pivotally mounted between said side flanges adjacent one end of said clamping plate, said clamping plate having a concavo-convex portion, and a clamping lever pivotally mounted between said side flanges, said clamping lever having an angular end portion engaging the concave side of said clamping plate to swing said clamping plate toward said front plate and grip a belt end between the convex side of said clamping plate and said front plate said clamping lever being provided with means for securing a belt end thereto at the opposite end thereof.

7. A belt buckle of the character described comprising a front plate having side flanges, a clamping plate pivotally mounted between said side flanges adjacent one end of said clamping plate, said clamping plate having a concavo-convex portion, and a clamping lever pivotally mounted between said side flanges, said clamping lever having an angular end portion engaging the concave side of said clamping plate toward the free end thereof to swing said clamping plate toward said front plate and grip a belt end between the convex side of said clamping plate and said front plate, said clamping lever being provided with means for securing a belt end thereto at the opposite end thereof.

8. A belt buckle of the character described comprising a front plate, a clamping plate having a curved belt engaging portion for movement toward and away from said front plate, said belt engaging portion having its convex side facing said front plate and adapted to engage said belt, and means for moving said clamping plate toward said front plate, said clamping plate being mounted independently of said last mentioned means.

In witness whereof, I hereunto subscribe my name this 9th day of October, A. D. 1920.

SAMUEL BUCHSBAUM.