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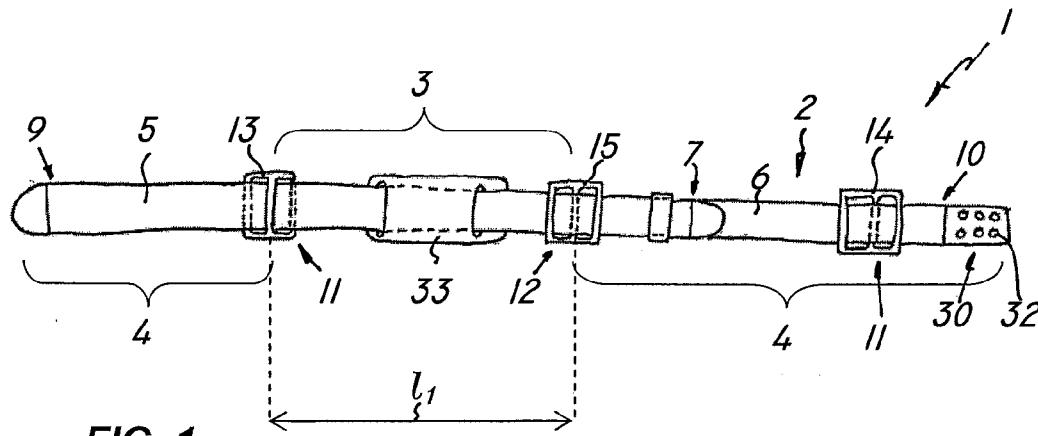
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(54) Title: ADJUSTABLE BELT FOR CARRYING BAGS OR THE LIKE

**FIG. 1**(57) **Abstract:** Adjustable strap bags and the like for use during cycling or motorcycling, which comprises an elongate flexible member (2) designed to be secured to a bag (B) or the like, characterized in that said elongate flexible member (2) includes a first portion (3) of adjustable length (l_1) which is designed to lie upon the shoulders of a user (U) and a second portion (4) of adjustable length (l_2) which is designed to encircle the waist of the user (U) thereby stabilizing the bag (B) and holding it tight thereagainst.

TRANSLATION (RULE 12.3)**ADJUSTABLE BELT FOR CARRYING BAGS OR THE LIKE**Field of the invention

5 The present invention generally finds application in the art of sports- and leisurewear, and particularly relates to an adjustable strap for bags, pouches, backpacks and similar accessories for use during cycling or motorcycling.

Background of the invention

10

Clothing accessories such as bags, pouches, backpacks and similar containers to be carried upon the shoulders of a user, are known to possibly have one or more straps fixedly or removably secured to the accessory at two or more attachment points, allowing them to be worn over the shoulders for more comfortable
15 transport.

Typically, the straps are formed of a single band of natural or synthetic fabric, with one or more portions folded upon themselves to allow adjustment of the working length of the strap to fit the user's height.

20

Adjustment is generally carried out by moving a slider along the belt to change the length of the folded portions and hence the working length of the strap.

25

Nonetheless, in the case of bags or other similar containers that are designed to be carried both by a walking user or during cycling or motorcycling, the working length of the strap has to be adjusted in response to the conditions of use.

In fact, a user that rides a bicycle or a motorcycle will usually wear the bag behind his/her back with the strap worn diagonally over the shoulders.

30

Conversely, a walking user will carry the bag in a substantially vertical position, and the working length of the strap will be smaller than in the case of a bicycle

rider.

A well-known drawback of prior art solution is that any working length adjustment to fit a walking use will involve the loss of the adjustment to fit the bicycle riding

5 use.

Therefore the strap length need to be adjusted from time to time to fit a particular use of the bag, which involves an inconvenient and time-consuming operation for the user.

10

Bags are also known which are specially designed to be carried by a riding user. These bags have a cross strap designed to be obliquely worn by a user for the bag to fit tightly at the back of the user.

15 Furthermore, an additional pair of side straps may be provided for stable attachment of the bag to the user's body, which have mutual fastening means allowing them to be locked and worn at the waist. These bags are very uncomfortable to be worn and carried by a walking user.

20 Furthermore, three or even more members are required to be joined to the bag by sewing, gluing or the like in a given number of constraint areas which will involve corresponding weakening areas for the bag structure.

25 Last but not least, such assemblies are relatively expensive and involve a relatively time-consuming fabrication, as a result of the number of parts to be provided therefor.

Summary of the invention

30 The main object of the present invention is to provide an adjustable strap for carrying bags or similar containers, that obviates the above prior art drawbacks.

A particular object is to provide a strap for carrying bags or the like, which affords stable positioning of a bag or similar container when the bag is worn by a user riding on a bicycle, a motorcycle or other similar vehicle.

- 5 Another particular object is to provide an adjustable strap for bags or the like that can always fit the particular anatomy of a user regardless of the bag carrying mode and does not require the user to readjust it each time that he/she changes such carrying mode, while using a relatively small number of parts.
- 10 A further object is to provide a strap for carrying bags or the like, that ensures a tight fit of the bag at the user's back using a relatively small number of parts.

Yet another object of the invention is to provide a strap that can be secured to a bag designed for use by a bicycle or motorcycle riding user, and can be attached 15 to the bag or the like at two locations only.

Not last object is to provide an adjustable strap that is designed for use both by a walking user and by a bicycle or a motorcycle user, without affecting comfort and stable fit of the bag against the user's body.

20 These and other objects, as better explained hereafter, are fulfilled by an adjustable strap for carrying bags or the like as defined in claim 1, which comprises an elongate flexible member securable to a bag or the like and including a first portion of adjustable length which is designed to lie upon the 25 shoulders of a user and a second portion of adjustable length which is designed to encircle the waist of the user thereby stabilizing the bag and holding it tight thereagainst.

30 By this particular arrangement, the strap of the invention allows comfortable carrying and stable positioning of the bag or similar container to which the strap is from time to time secured, as well as tight fit thereof at the user's back.

Advantageously, the strap may have first adjustment means for adjusting the length of said first adjustable portion and second adjustment means for adjusting said second adjustable portion, said first adjustment means being independent of said second means, thereby allowing adjustment of the length of said first 5 adjustable portion, while leaving the length of said second adjustable portion unchanged.

Thus, the strap may be adjusted to readily fit various modes of use, and will not require repeated adjustment to fit various bag caring modes.

10

Brief description of the drawings

Further features and advantages of the invention will be more apparent upon reading the detailed description of a preferred, non-exclusive embodiment of an 15 adjustable strap for carrying bags or the like according to the invention, which is described as a non-limiting example with the help of the annexed drawings, in which:

FIG. 1 is a front view of a strap of the invention;

20 FIG. 2 is a perspective view of a strap of the invention attached to a bag in a particular configuration;

FIG. 3 is a perspective view of a strap of the invention attached to a bag in another configuration;

25 FIG. 4 is a front view of a strap of the invention attached to a bag and worn by a user in a first mode of use;

FIG. 5 is a lateral view of FIG. 4;

FIG. 6 is a front view of a strap of the invention attached to a bag and worn by a user in a second mode of use;

FIG. 7 is a lateral view of FIG. 6;

FIG. 8 is a front view of a first detail of a strap of the invention;

30 FIG. 9 is an enlarged view of further details of a strap of the invention.

Detailed description of a preferred embodiment

Referring to the above figures, the strap of the invention, generally designated by numeral 1, may be fixedly or removably mounted to a bag, a pouch, a backpack or 5 a similar container and is particularly suitable to be carried by a user riding a bicycle, a motorcycle or a similar vehicle.

As shown in Figures 1 to 3, a strap of the invention comprises an elongate flexible member 2 designed to be secured to a bag B or the like, and having a first portion 10 3 of adjustable length l_1 which is designed to lie upon the shoulders of a user U and a second portion 4 of adjustable length l_2 which is designed to encircle the waist of the user U and thereby stabilize the bag B and hold it tight thereagainst.

Therefore, in a first mode of use, as shown in FIGS. 4 and 5, a bag B or a similar 15 container designed to receive the strap 1 of the invention mounted thereon, may be carried in a substantially vertical position at a side of a user U with the strap 1 lying upon one of his/her shoulders.

In this case, the second adjustable portion 4 of the elongate member 2 may not 20 encircle the waist of the user U and may be kept free.

In another mode of use, as shown in FIGS. 6 and 7, which is particularly suitable for a user U riding a bicycle or a similar vehicle, the strap 1 may be worn with the first adjustable portion 3 obliquely lying upon the shoulder and around the torso of 25 the user U.

On the other hand, the second adjustable portion 4 may encircle the waist of the user U and be locked at the front. Thus, the bag B will stably fit at the back of the user U and be comfortably held in position thereupon.

30

Advantageously, the elongate flexible member 2 may include first and second bands 5, 6 having respective first ends 7, 8 facing and slideably secured to each

other at the first adjustable portion 3 and second free ends 9, 10 at the second adjustable portion 4.

Also, first and second adjustment means 11, 12 may be provided for adjusting the
5 lengths l_1 , l_2 of the first adjustable portion 3 and the second adjustable portion 4 respectively. The first adjustment means 11 may be adjusted independent of the second adjustment means 12.

Thus, the length l_1 of the first adjustable portion 3 may be changed while leaving
10 the length l_2 of the second adjustable portion 4 unchanged.

Thanks to this particular configuration of the invention, a user U that both walks and rides bicycles or similar vehicles will not be required to adjust the strap 1 each time he/she turns from walking to riding or vice versa, or changes the bag B carrying mode, e.g. turning from one to the other of the configurations as
15 described above and shown in the annexed figures.

Particularly, the first adjustment means 11 may include first and second sliders 13, 14, which are adapted to longitudinally slide along first ends 7, 9 of the first and
20 second bands 5, 6 respectively.

The second adjustment means 12 may include a third slider 15 which is adapted to longitudinally slide along the second end 9 of the first band 5 to change the portion 16 of the first band 5 facing the second 6, thereby adjusting the length l_2 of
25 the second adjustable portion 5 of the elongate member 2 to fit the anatomy of the user U and particularly his/her waist size.

The sliders 13, 14, 15 may be substantially similar, and consist of a substantially plate-like body of metal, plastic or another material with adequate mechanical
30 properties, having a pair of substantially transverse slots 17, 18 and of a substantially central transverse stem 19.

Particularly, the slots 17, 18 are designed to receive the ends 7, 8, 9, 10 of the first and second bands 5, 6 respectively.

For example, in a preferred, non exclusive configuration of the present invention
5 as shown in the accompanying figures, the first ends 7, 8 of the first and second bands 5, 6 will engage the first and second sliders 13, 14 respectively, whereas the third slider 15 may be engaged by the second ends 9, 10.

As more clearly shown in FIG. 8, the second end 10 of the second band 6 may be
10 stably attached to the third slider 15, for example it may be bent into a U shape around the central stem 19 and fixed by sewing or other chemical or mechanical bond.

The second ends 9, 10 of the first and second bands 5, 6 may be held in mutually
15 facing relation by a loop 20, a tie or the like, slideably mounted thereon.

Also, the strap 1 may have coupling means 21 for securing it to a bag B or the like, that can be associated with the first and second bands 5, 6 to delimit the first adjustable portion 3 of the elongate member 2.

20 For example, the coupling means 21 may include a pair of flaps 22, 23 each having one end, 24 and 25 respectively, adapted to be attached to a bag B or the like by known arrangements, and the opposite end, 26 and 27 respectively, having a passage 28, 29 for corresponding second ends 9, 10 of the first and second
25 bands 5, 6.

Thus, the first adjustable portion 3 may be defined by the sections of the first and second bands 5, 6 delimited by the passages 28, 29 of the flaps 22, 23, whereas the second adjustable portion 6 may be defined by the sections of the first and
30 second bands 5, 6 outside such passages 28, 29.

The latter may be advantageously designed to lock the sliders 13, 14, 15 and

prevent them from moving from one side of the flaps 22, 23 to the other.

Thus, when the strap 1 is worn with the bag B at the side of the body of the user U, the first adjustable portion 3 of the elongate member 2 may substantially coincide with the sections of the first 5 and second bands 6 delimited by the first and second sliders 13, 14.

The length l_1 of the first portion 3 will be in any case equal to the length of the portion of the elongate member 2 delimited by the two passages 28, 29.

10

Conversely, the length l_2 of the second adjustable portion 4 will correspond to the overall length of the portions of the elongate member 2 outside the passages 28, 29, possibly without the part of the first end 8 of the second band 6 that faces the first end 7 of the first band 5, or vice versa.

15

In the configuration as shown in the Figures, the length l_2 of the second adjustable portion 4 will be simply adjusted by sliding the third slider 15 along the first band 5 to change the portion 16 of the first band 5 overlying the second band 6.

20 For the second adjustable portion 4 to stably encircle the waist of a user U, mutual attachment means 30 may be provided for joining together the first ends 7, 8 of the first and second bands 5, 6 and allow a user U to attach them at the waist, preferably but without limitation at the front.

25 As particularly shown in FIG. 9, the attachment means 30 may include at least one male member 31 on one of the first ends 7, 8 and at least one female receptacle 32 on the other first end 7, 8, for snap engagement with a male member 31.

30 In the illustrated configuration, which is described by way of example and without limitation to the invention, a pair of transversely spaced male members 31 are provided on the first end 7 of the first band 5, and three pairs of longitudinally spaced female receptacles 32 are formed on the first end 8 of the second band 6.

This will afford further customization of the attachment of the second portion 4 to fit the anatomy and preferences of the user U.

5 Nonetheless, it shall be understood that the configuration of the attachment means 30 may be other than that described and shown herein.

Both the male members 32 and the female receptacles 32 may be provided in greater or smaller numbers as compared with the illustrated arrangement and may

10 be formed on either or both bands 5, 6, in any spatial arrangement.

Also, the attachment means 30 as shown herein may be replaced by any other type of attachment means, as typically used in the manufacture of straps, belts or similar accessories to be mounted to bags or other clothing items.

15

The strap 1 may be also equipped with a shoulder pad 33, e.g. slideably mounted to the first band 5 at the first adjustable portion 3 and designed to contact the shoulder of the user U for improved comfort of the strap 1.

20 The materials used for the strap 1 may be selected from the group comprising leather, natural or synthetic fabric or nonwoven fabrics, and may be possibly supplemented with reinforcements of relatively stiff materials, such as metal or rigid plastic.

25 The two bands 5, 6 may be also formed of different materials, and each may also comprise several materials at the same time.

30 The above disclosure clearly shows that the invention fulfils the intended objects and particularly meets the requirement of providing an adjustable strap for carrying bags and the like that can be also used by a user riding a bicycle or a motorcycle, while still ensuring stability and tight fit of the bag against the user's body.

Thanks to the particular configuration of the first and second adjustment means 11, 12, the belt may be adjusted to fit various modes of use.

The strap of the invention is susceptible of a number of changes and variants, 5 within the inventive concept disclosed in the appended claims. All the details thereof may be replaced by other technically equivalent parts, and the materials may vary depending on different needs, without departure from the scope of the invention.

10 While the strap has been described with particular reference to the accompanying figures, the numerals referred to in the disclosure and claims are only used for the sake of a better intelligibility of the invention and shall not be intended to limit the claimed scope in any manner.

CLAIMS

1. An adjustable strap for carrying bags or the like particularly for users riding bicycles or motorcycles, comprising an elongate flexible member (2) securable to 5 a bag (B) or the like, characterized in that said elongate flexible member (2) includes a first portion (3) of adjustable length (l_1) which is designed to lie upon the shoulders of a user (U) and a second portion (4) of adjustable length (l_2) which is designed to encircle the waist of the user (U) thereby stabilizing the bag (B) and holding it tight thereagainst.

10

2. Adjustable strap as claimed in claim 1, characterized in that said elongate flexible member (2) includes first (5) and second (6) bands having respective first ends (7, 8) facing and slideably secured to each other at said first adjustable portion (3) and second free ends (9, 10) at said second adjustable portion (4).

15

3. Adjustable strap as claimed in claim 1 or 2, characterized in that it has first adjustment means (11) for adjusting the length (l_1) of said first adjustable portion (3) and second adjustment means (12) for adjusting said second adjustable portion (4), said first adjustment means (11) being designed to adjust the length 20 (l_1) of said first adjustable portion (3), while leaving the length (l_2) of said second adjustable portion (4) unchanged.

4. Adjustable strap as claimed in claim 3, characterized in that said first adjustment means (11) include first (13) and second (14) sliders which are 25 adapted to longitudinally slide along first ends (7, 8) of said first (5) and second (6) bands respectively.

5. Adjustable strap as claimed in claim 3 or 4, characterized in that said second adjustment means (13) include a third slider (15), which is adapted to 30 longitudinally slide along said second end (9) of said first band (5) to change the portion (16) of said first band (5) facing the second band (6) and adjust the length (l_2) of said second adjustable portion (4) of said elongate member (2).

6. Adjustable strap as claimed in claim 5, characterized in that said second end (10) of said second band (6) is stably attached to said third slider (15).

7. Adjustable strap as claimed in one or more of the preceding claims,
5 characterized in that it has coupling means (21) for securing said first (5) and said second (6) bands (6) to a bag (B) or the like, said coupling means (21) being adapted to be associated to said first and second bands (5, 6) to delimit said first adjustable portion (3) of said elongate member (2).

10 8. Adjustable strap as claimed in claim 7, characterized in that said coupling means (21) include at least one pair of flaps (22, 23) each having one end (24, 25) adapted to be attached to a bag (B) or the like and the opposite free end (26, 27) having a passage (28, 29) for corresponding second ends (9, 10) of said first and second bands (5, 6).

15

9. Adjustable strap as claimed in claim 8, characterized in that said first adjustable portion (3) is defined by the sections of said first and second bands (5, 6) delimited by said passages (28, 29) of said flaps (22, 23), whereas said second adjustable portion (5) is defined by the sections of said first and second bands (5, 20 6) outside such passages (28, 29).

10. Adjustable strap as claimed in one or more of the preceding claims, characterized in that said sliders (13, 14, 15) have a substantially plate-like shape of predetermined thickness (s) with a substantially central transverse stem (19) 25 and a pair of transverse slots (17, 18) for receiving said first and second ends (7, 8, 9, 10) of said bands (5, 6).

11. Adjustable strap as claimed in one or more of the preceding claims, characterized in that said first ends (7, 8) of said bands (5, 6) have mutual 30 attachment means (30) for allowing a user (U) to join them at the waist.

12. Adjustable strap as claimed in claim 11, characterized in that said

attachment means (30) include at least one male member (31) on one of said first ends (7, 8) and at least one female receptacle (32) on the other first end (7, 8), for snap engagement with said at least one male member (31).

5 13. Adjustable strap as claimed in claim 12, characterized in that said attachment means (30) include a plurality of said female receptacles (32) in longitudinally spaced relation to allow customized attachment of said at least one male member (31) to fit the size of the body of the user (U).

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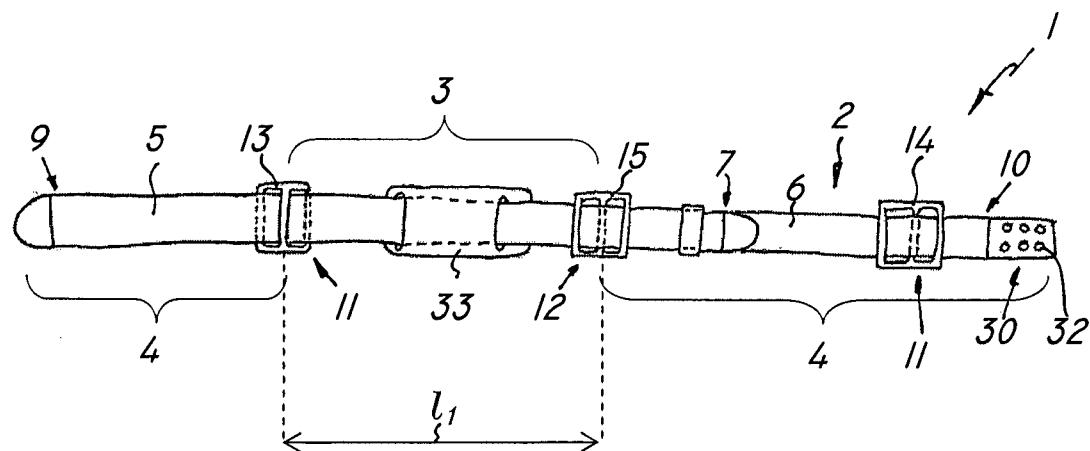


FIG. 1

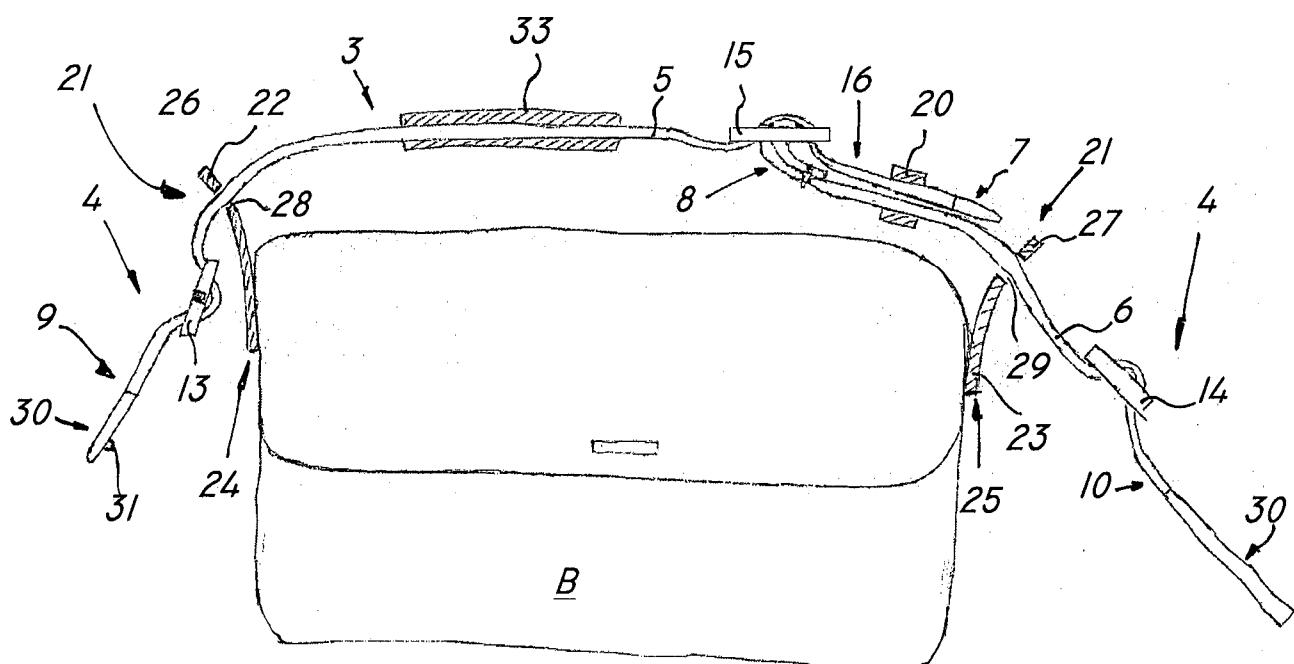


FIG. 2

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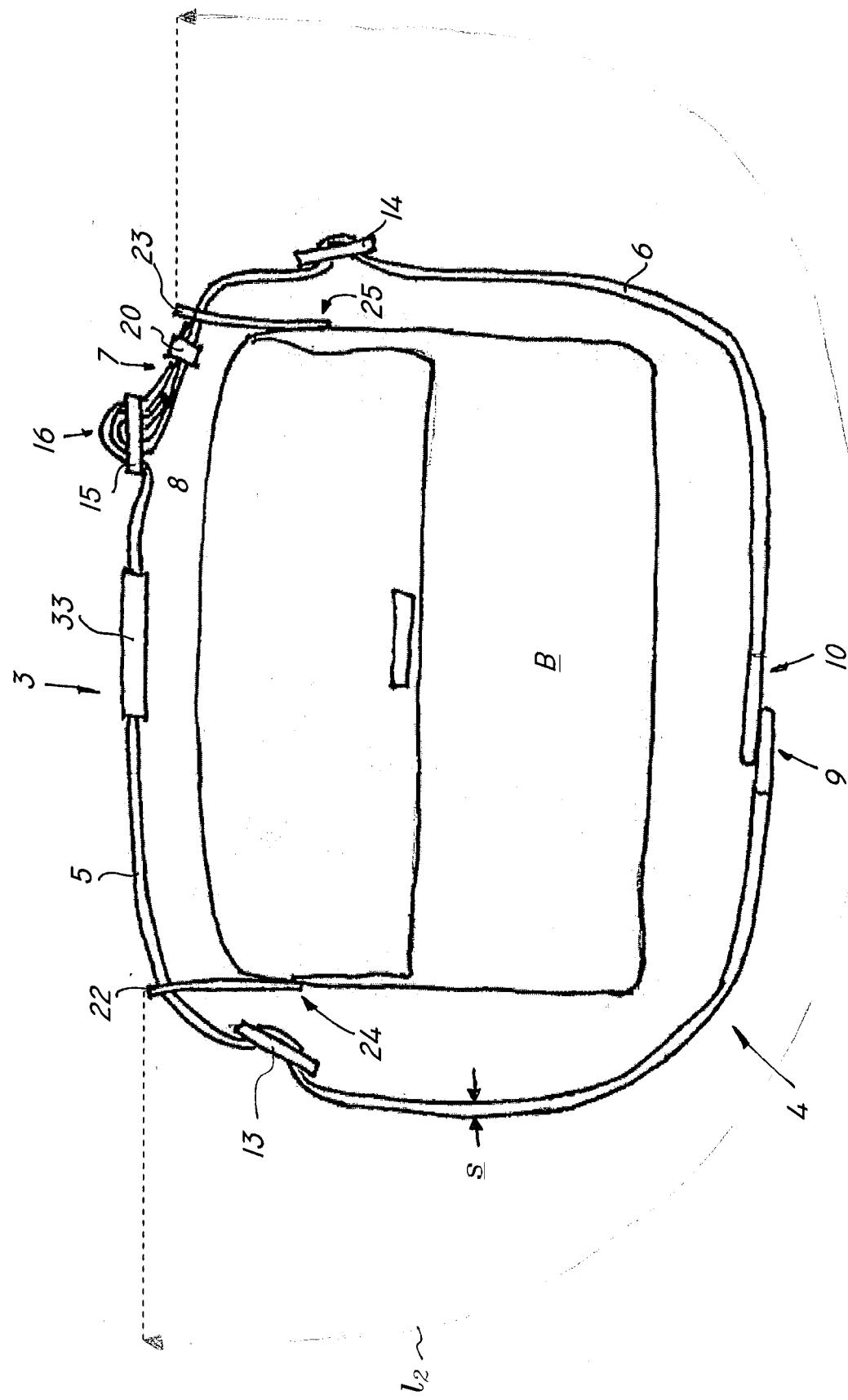


FIG. 3

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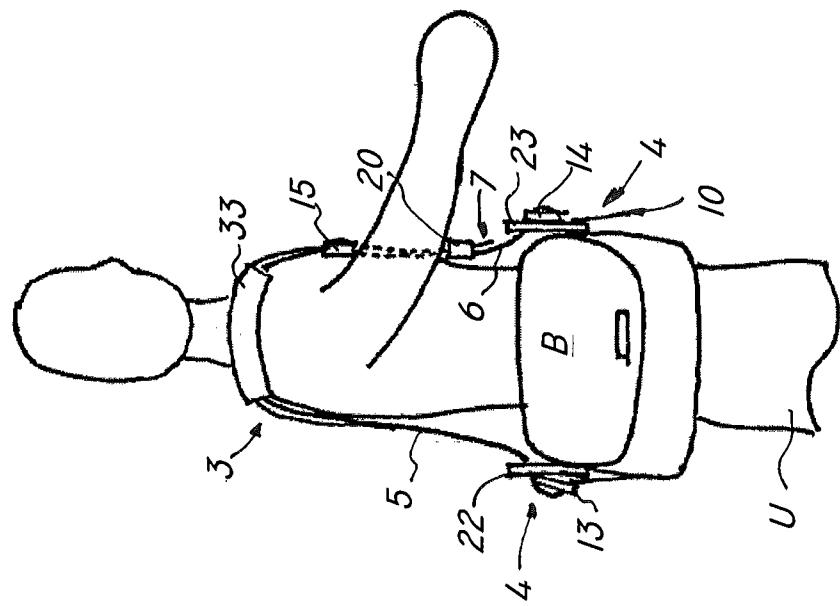


FIG. 5

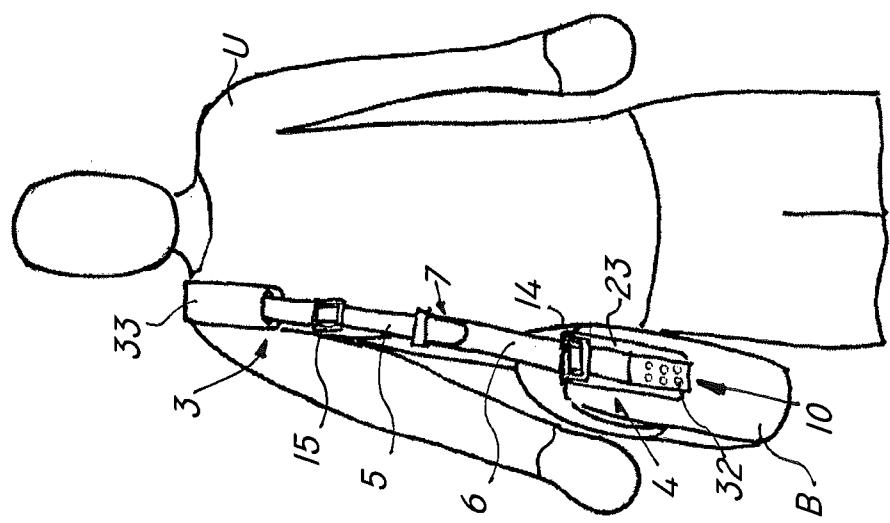


FIG. 4

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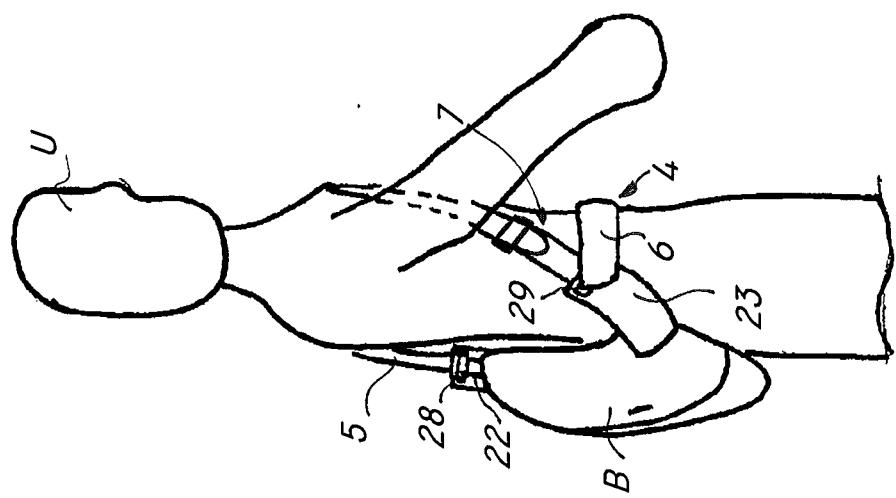


FIG. 7

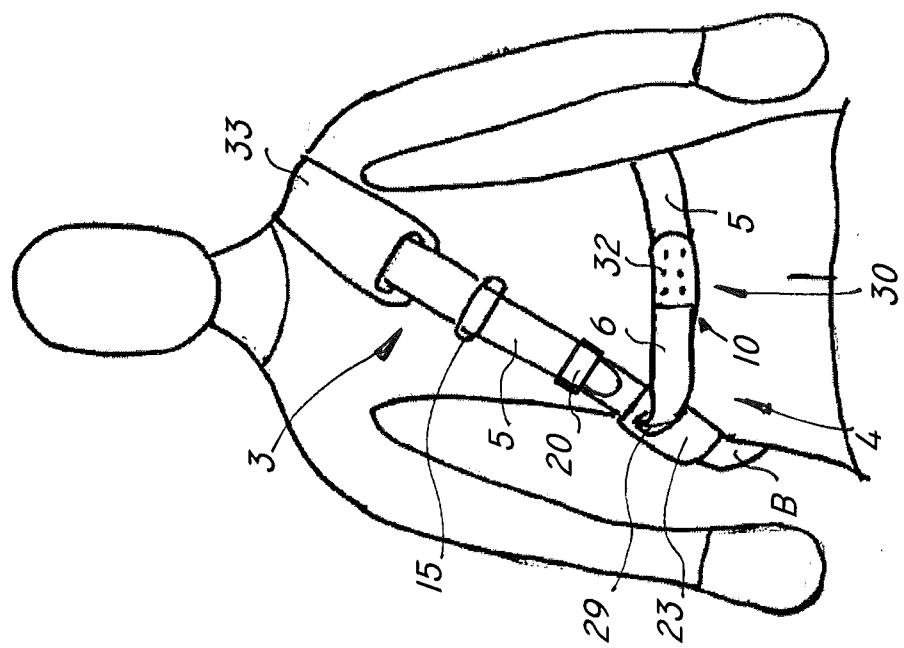


FIG. 6

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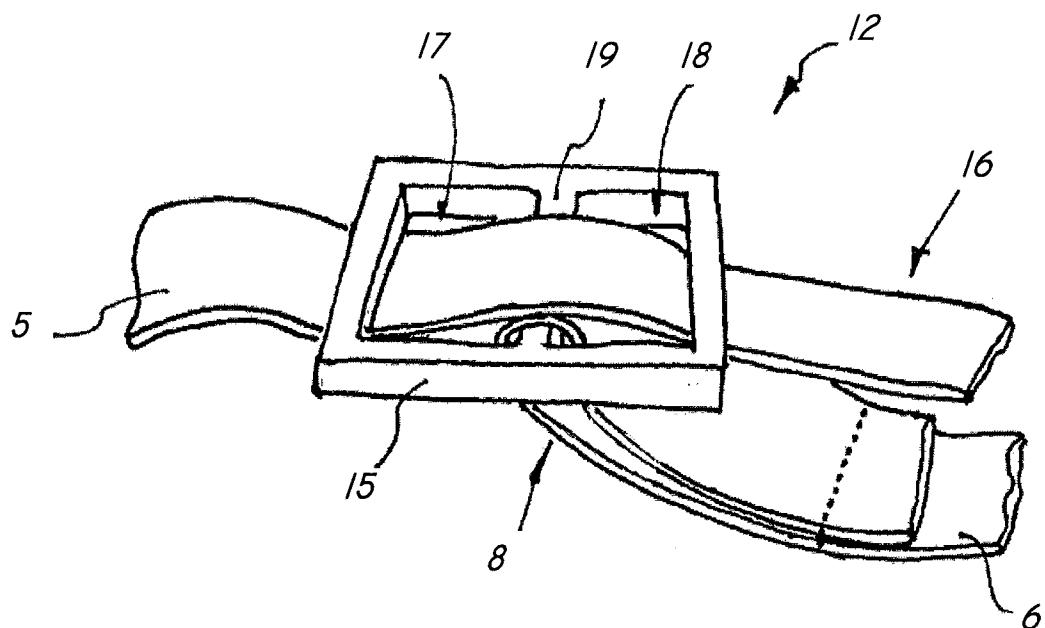


FIG. 8

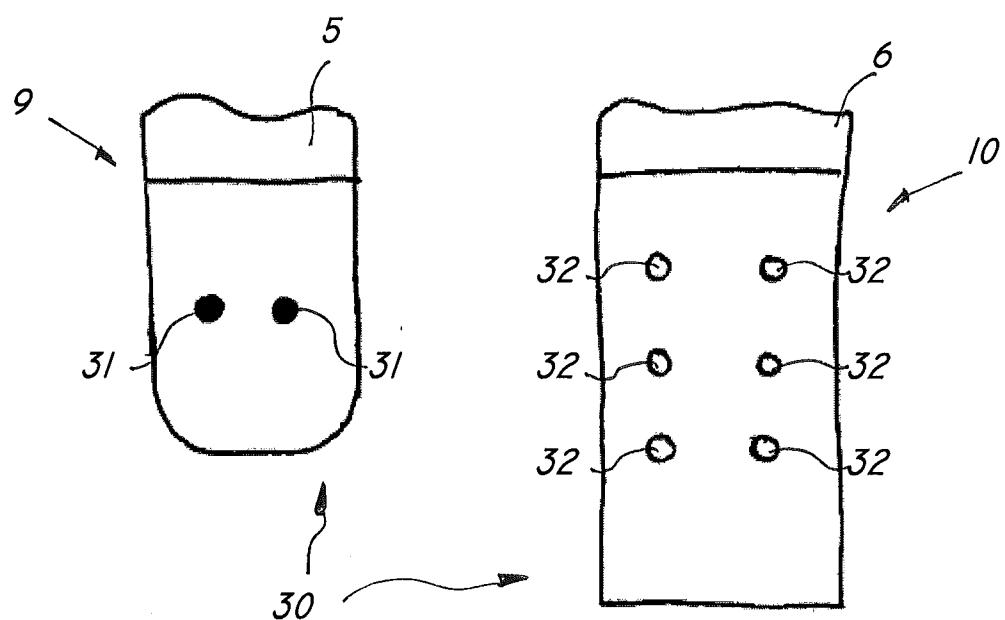


FIG. 9