

DESCRIPTION

WRISTBAND, CONTINUOUS BODY OF WRISTBANDS AND METHOD FOR WINDING WRISTBAND

TECHNICAL FIELD

[0001]

The present invention relates to a wristband, a continuous body of the wristbands and method for winding the wristbands, in particular, a wristband, a continuous body of the wristbands and method for winding the wristbands capable of identifying a person such as patients in a medical field or visitors in an amusement field by winding the same around a wrist or an ankle of them.

BACKGROUND ART

[0002]

Conventionally, known is a wristband in a strip shape in which an adhesive is applied to a rear surface of its main body in a belt shape and a mount is temporarily attached thereto. When it is in use, both ends of the main body are adhered with each other after peeling off a part of the mount and exposing the adhesive layer so as to go it around a wrist or the like in a ring shape. That is, the adhesive layer on the rear surface of one end is adhered to the front surface of the other end. Further, in at least one end portion, a notch portion is formed for preventing re-use or unauthorized use.

[0003]

However, it is cumbersome for a user to wind the wristband in an elongate strip shape around a wrist or an ankle, which are different in size depending on the user, on an appropriate position and in an appropriate size (or diameter). Particularly, there is a problem that it is difficult to ensure a proper form adhered when the user winds the wristband by himself/herself alone and its workability is lowered. In addition, there is a problem that, when both ends are adhered to each other, both ends are easily shifted from each other because the wristband itself is elongated.

[0004]

Further, there is also a problem that the above mentioned trouble, which is the situation of being not able to ensure a proper form because it is cumbersome for the user to wind a wristband in an elongate strip shape around a wrist or an ankle, is likely to occur when both ends of a wristband in a label are adhered to each other. Because the notch portion is not located at an adhesion portion (an overlapping portion) formed on both ends for unauthorized use, and it is difficult to sufficiently fulfill the function of fracture (the function

of unauthorized use), if both ends are not accurately, surely and carefully adhered to each other along a predetermined length when both ends of the wristband in a label are adhered.

[0005]

In addition, in a continuous body successively formed of a plurality of wristbands in one piece, the wristband in one piece is separated from an end portion thereof for use. In the wristband configured to be (temporarily) attached with a mount on the rear surface a band base material, it is needed to carry out a procedure to peel off a part of the mount from the rear surface of the band base material so as to expose the adhesive layer after the wristband is obtained in one piece. So, there is a problem that it takes time up to the preparation of the wristband in one piece, in which the wristband is actually formed in a ring shape by exposing the adhesive layer from a state of the continuous body of wristbands.

CITATION LIST

Patent Literature

[0006]

Patent Literature 1 : Japanese Unexamined Patent Application Publication No. 2006-39209.

SUMMARY OF INVENTION

Technical Problem

[0007]

The present invention has been made based on such circumstances. It is an objective the present invention to provide a wristband, a continuous body of the wristbands and a method for winding the wristband, which are easy and ensure to operation of winding it a subject such as a wrist or an ankle.

[0008]

It is another objective of the present invention to provide a wristband, a continuous body of the wristbands and a method for winding the wristband, in which it is able to ensure a proper and accurate form as wound in a ring shape.

[0009]

It is another objective of the present invention to provide a wristband, a continuous body of the wristbands and a method for winding the wristband, in which both ends thereof are adhered with each other in correct posture such that a notch portion for preventing unauthorized use is exhibited to ensure its function.

[0010]

It is another objective of the present invention to provide a wristband, a continuous body of the wristbands and a method for winding the wristband, in which a ring shape is formed immediately since a mount is peeled off already from the band base material when the wristband is separated from the continuous body of the wristbands.

Solution to Problem

[0011]

The present invention is focused on adhering both rear surfaces first rather than adhering a rear surface of a band base material to a front surface thereof in the prior art, and dividing into two steps operation of winding rather than completing operation of winding the wristband in a ring shape around the subject in one step. In a first aspect of the present invention, a wristband comprising: a band base material in a belt shape; an adhesive layer formed on a rear surface of the band base material; and a mount temporarily attached to and covering the adhesive layer, the band base material comprising: a central region capable of displaying specific information; a first winding region and a second winding region respectively located in the left and right ends of the central region so as to be wound around a subject of a wrist or an ankle together with the central region; and a first adhesion position guide and a second adhesion position guide disposed in the first winding region and the second winding region, respectively, wherein the adhesive layer is exposed when the mount located on the rear surface of the first winding region is peeled off, wherein the rear surface of the first winding region having the adhesive layer exposed is adhered to the rear surface of the second winding region to form a ring shape winding the subject by overlapping each other such that the first adhesion position guide and the second adhesion position guide are put together while a part of the adhesive layer remains to be possibly exposed, and wherein the first winding region having the part of the adhesive layer remaining partially to be possibly exposed is adhered to the front surface of the second winding region.

[0012]

In a second aspect of the present invention, a wristband for being wound around a wrist or an ankle, which comprises: a band base material in a belt shape; an adhesive layer entirely formed on a rear surface of the band base material; and a mount in a belt shape temporarily attached to and covering the adhesive layer, wherein the adhesive layer is exposed when the mount located in the rear surface of one end portion of the band base material is peeled off, and wherein the mount is exposed when the band base material on the front surface of the other end portion thereof is peeled off.

[0013]

In a third aspect of the present invention, a continuous body has a plurality of wristbands according to the second aspect as above, namely the continuous body of wristbands for winding a wrist or an ankle, which comprises: a band base material in a belt shape; an adhesive layer entirely formed on a rear surface of the band base material; and a mount in a belt shape temporarily attached to and covering the adhesive layer, wherein the band base material is formed with a pair of band separation lines at a predetermined distance so as to form a wristband in one piece, wherein the mount is formed with a pair of mount

separation lines at a predetermined distance, the pair of band separation lines being located at positions different from the pair of band separation lines, respectively, wherein, in the wristband in one piece, the adhesive layer is exposed when the mount located in the rear surface of one end portion of the band base material is peeled off, and wherein the mount is exposed when the band base material in the front surface of the other end portion thereof is peeled off.

[0014]

The band separation lines may be cuts for separating to form the wristband in one piece.

[0015]

The band separation lines may be cuts for separating to form the wristband in one piece and forms a distance for detecting position in a portion of the cuts.

[0016]

In a fourth aspect of the present invention, a continuous body of wristbands, comprising: a band base material in a belt shape; an adhesive layer formed on a rear surface of the band base material; and a mount temporarily attached to and covering the adhesive layer, the band base material comprising: a central region capable of displaying specific information; a first winding region and a second winding region respectively located in the left and right ends of the central region so as to be wound around a subject of a wrist or an ankle together with the central region, wherein the band base material is formed with a first band separation line and a second band separation line to form a wristband in one piece, wherein the mount is formed with a first mount separation line and a second mount separation line to form the wristband in one piece, the first mount separation line and the second mount separation line being located at positions different from the first band separation line and the second band separation line, wherein, in the wristband in one piece, the adhesive layer is exposed when the mount located in the rear surface of the first winding region is peeled off, and wherein the mount is exposed when the band base material in the front surface of the second winding region is peeled off.

[0017]

In a fifth aspect of the present invention, a method for winding a wristband comprising: a band base material in a belt shape; an adhesive layer formed on a rear surface of the band base material; and a mount temporarily attached to and covering the adhesive layer, the band base material comprising: a central region capable of displaying specific information; a first winding region and a second winding region respectively located in the left and right ends of the central region so as to be wound around a subject of a wrist or an ankle together with the central region; and a first adhesion position guide and a second adhesion position guide disposed in the first winding region and the second winding region, respectively, the method comprising: an exposure step of exposing the adhesive layer by

peeling off the mount located in the rear surface of the first winding region, a first adhesion step of forming in a ring shape so as to be wound around a subject by adhesively overlapping the rear surface of the first winding region having the adhesive layer exposed and the rear surface of the second winding region such that a first adhesion position guide and a second adhesion position guide are put to each other in a state where a part of the adhesive layer remains to be possibly exposed, and a second adhesion step of adhering the first winding region having the adhesive layer remaining partially to be possibly exposed to the front surface of the second winding region.

[0018]

The adhesive layer may be defined into a first adhesion region to be adhered to the rear surface of the second winding region and a second adhesion region to be adhered to the surface of the second winding region.

[0019]

At least one of the first winding region and the second winding region may be formed with a notch portion for fracture.

[0020]

The first adhesion position guide and the second adhesion position guide may be adhesion position marks printed in advance in the first winding region and the second winding region, respectively.

[0021]

The first adhesion position guide or the second adhesion position guide may be an adhesion position guide fragment formed in advance in the first winding region or the second winding region.

[0022]

The mount may be in direct contact with the subject.

[0023]

The band base material may be in direct contact with the subject.

[0024]

The mount may be made of a transparent material, and the first adhesion position guide and the second adhesion position guide may be disposed on the rear surface of the mount.

[0025]

The mount may be made of a transparent material, and is formed with at least one of the first adhesion position guide and the second adhesion position guide on the rear surface thereof.

[0026]

The mount located in the second winding region may be off the band base material and protrude from an end portion of the second winding region toward the opposite side of the

first winding region.

[0027]

The adhesive layer and the mount may be disposed only on the rear surface of the first winding region.

[0028]

The band base material of the second winding region may be formed with a plurality of perforations parallel to each other in a width direction.

[0029]

The first winding region may have on at least one of the surface and the rear surface thereof an advertisement column in advance printable of advertisement information on the wristband.

Advantageous Effects of Invention

[0030]

In a wristband, a continuous body of wristbands and a method for winding a wristband according to the present invention (a first aspect, a fourth aspect and a fifth aspect), since a first adhesion position guide and a second adhesion position guide are provided in a first winding region and a second winding region, respectively, and rear surfaces of both ends of a band base material in a belt shape are adhered to each other, the user can easily and surely carry out operation of winding it around a wrist and the like even alone. And also, since firstly rear surfaces of the first winding region and the second winding region are adhered, and secondly a rear surface of the first winding region is adhered to a front surface of the second winding region, the user can wind it in a ring shape just to fit the size of the user's wrist or ankle.

[0031]

In particular, according to a wristband in the first aspect of the present invention, a first adhesion position guide and a second adhesion position guide are provided in the first winding region and the second winding region, respectively. And also, the rear surface of the first winding region having an adhesive layer exposed and the rear surface of the second winding region are adhesively overlapped and possibly form a ring shape to wind it around a subject such that the adhesion position guide and the second adhesion position guide are put on each other in a state where a part of the adhesive layer remains to be possibly exposed. Then, since the first winding region having the adhesive layer remaining partially to be possibly exposed can be adhered to the front surface of the second winding region, it is easy for the user to carrying out operations in adhering both end portions of the wristband and in winding with one hand.

[0032]

In particular, according to a wristband in the second aspect of the present invention,

the adhesive layer can be exposed after the mount is peeled off from the rear surface of one end portion of the band base material, and also the mount is exposed after the band base material has been peeled off on the front surface of the other end portion of the band base material. Then, since it is not needed to carry out a procedure of peeling off the mount, the wristband can be wound around the subject such as a wrist and the like by immediately adhering the end portion of the mount side to the end portion of the adhesive layer side and forming in a ring shape.

[0033]

In particular, according to a continuous body of wristbands in the third aspect of the present invention, a band base material is formed with a pair of band separation lines at a predetermined distance in order to form a wristband in one piece, a mount is formed with a pair of mount separation lines at a predetermined distance at a place different from the band separation lines, respectively. And also, an adhesive layer is possibly exposed by peeling off the mount in the rear surface of one end portion of the band base material, and the mount is possibly exposed by removing the band base material in the front surface of the other end portion of the band base material. Then, since the mount in the most end portion of the continuous body of wristbands has been already in a single layer by separating the preceding wristband for use, the next wristband (the most end portion of the continuous body of wristbands above) can be obtained in one piece by peeling off only the band base material at the upstream from the mount, and workability is excellent.

[0034]

In particular, according to a continuous body of wristbands in the fourth aspect of the present invention, a first band separation line and a second band separation line formed in the band base material are located at locations different from a first mount separation line and a second mount separation line formed in the mount, respectively. And also, an adhesive layer is possibly exposed by peeling off the mount in the rear surface of the winding region, and the mount is possibly exposed by removing the band base material in the front surface of the second winding region. Then, since the mount in the most end portion of the continuous body of wristbands has been already in a single layer by separating the preceding wristband for use, similar to the third aspect as above, the next wristband (the most end portion of the continuous body of wristbands above) can be obtained in one piece by peeling off only the band base material at the upstream from the mount, and workability is excellent.

[0035]

In particular, according to a method of winding a wristband in the fifth aspect of the present invention, the method comprises an exposure step of exposing the adhesive layer by peeling off a mount in a rear surface of a first winding region, a first adhesion step of forming in a ring shape so as to be wound around a subject by adhesively overlapping the rear surface of the first winding region having the adhesive layer exposed and the rear surface of the

second winding region such that a first adhesion position guide and a second adhesion position guide are put to each other in a state where a part of the adhesive layer remains to be possibly exposed, and a second adhesion step of adhering the first winding region having the adhesive layer remaining partially to be possibly exposed to the front surface of the second winding region. Then, a ring in a maximum diameter can be formed in the first adhesion step, operation of winding in a ring shape can be carried out according to a size appropriate to the subject of the user in the second adhesion step, and further it is easy to carry out operation of securing finally from a maximum diameter.

BRIEF DESCRIPTION OF DRAWINGS

[0036]

Fig. 1 is an illustration showing a continuous body 1 of wristbands according to a first example of the present invention, Fig. 1(1) is a plan view, Fig. 1(2) is a rear view, and Fig. 1(3) is a cross sectional view thereof, respectively.

Fig. 2 is an illustration showing a wristband 1A according to the first example of the present invention, Fig. 2(1) is a rear view and Fig. 2(2) is a cross sectional view thereof, respectively.

Fig. 3 is a perspective view illustrating a first stage of winding a wristband 1A in a ring shape separated from a continuous body 1 of wristbands.

Fig. 4 is a perspective view illustrating a first adhesion step of adhering a rear surface of the first winding region 6 to a rear surface of the second winding region 7.

Fig. 5 is a perspective view illustrating a second adhesion step of adhering a rear surface of the first winding region 6 to a front surface of the second winding region 7.

Fig. 6 is an illustration showing a continuous body 30 of wristbands according to the second example of the present invention, Fig. 6(1) is a plan view, Fig. 6(2) is a rear view, and Fig. 6(3) is a cross sectional view, thereof, respectively.

Fig. 7 is an illustration showing a wristband 30A according to the second example of the present invention, Fig. 7(1) is a rear view and Fig. 7(2) is a cross sectional view thereof, respectively.

Fig. 8 is a perspective view illustrating a first stage of winding a wristband 30A separated from a continuous body 30 of wristbands.

Fig. 9 is a perspective view illustrating a first adhesion step of adhering a rear surface of the first winding region 6 to a rear surface of the second winding region 7.

Fig. 10 is a perspective view illustrating a second adhesion step of adhering a rear surface of the first winding region 6 to a surface of the second winding region 7.

Fig. 11 is an illustration showing a continuous body 40 of wristbands according to a third example of the present invention, Fig. 11(1) is a plan view, Fig. 11(2) is a rear view, and Fig. 11(3) is a cross sectional view thereof, respectively.

Fig. 12 is an illustration showing a wristband 40A according to the third example of the present invention, Fig. 12(1) is a rear view and Fig. 12(2) is a cross sectional view thereof, respectively.

Fig. 13 is a perspective view illustrating a first stage of winding a wristband 40A separated from a continuous body 40 of wristbands.

Fig. 14 is a perspective view illustrating a first adhesion step of adhering a rear surface of the first winding region 6 to a rear surface of the second winding region 7.

Fig. 15 is a perspective view illustrating a second adhesion step of adhering a rear surface of the first winding region 6 to a surface of the second winding region 7.

Fig. 16 is an illustration showing a continuous body 50 of wristbands according to a fourth example of the present invention, Fig. 16(1) is a plan view, Fig. 16(2) is a rear view, and Fig. 16(3) is a cross sectional view thereof, respectively.

Fig. 17 is an illustration showing a wristband 50A according to the fourth example of the present invention, Fig. 17(1) is a rear view and Fig. 17(2) is a cross sectional view thereof, respectively.

Fig. 18 is a perspective view illustrating a first stage of winding a wristband 50A separated from a continuous body 50 of wristbands.

Fig. 19 is a perspective view illustrating a first adhesion step of adhering a rear surface of the first winding region 6 to a rear surface of the second winding region 7.

Fig. 20 is a perspective view illustrating a second adhesion step of adhering a rear surface of the first winding region 6 to a surface of the second winding region 7.

Fig. 21 is an illustration showing a continuous body 60 of wristbands according to a fifth example of the present invention, Fig. 21(1) is a plan view, Fig. 21(2) is a rear view, and Fig. 21(3) is a cross sectional view thereof, respectively.

DESCRIPTION OF EMBODIMENTS

[0037]

The present invention has achieved is a wristband, a continuous body of wristbands and a method of winding a wristband in which in a ring shape easily and reliably even in the winding subject of different sizes I to allow wound, and Adhered between the rear surface of both ends of the base band strip, so to be divided into two times the operating winding.

Examples

[0038]

Next, referring to Figs. 1 to 5, described are a wristband, a continuous body of wristbands and method for winding a wristband according to a first example of the present invention. Fig. 1 is an illustration showing a continuous body 1 of wristbands according to the first example of the present invention, and Fig. 1(1) is a plan view, Fig. 1(2) is a rear view, and Fig. 1(3) is a cross sectional view, respectively. Fig. 2 is an illustration showing a wristband 1A according to the first example of the present invention, and Fig. 2(1) is a rear view and Fig. 2(2) is a cross sectional view, respectively. The continuous body 1 of wristbands comprises successively a plurality of the wristband 1A in one piece. The continuous body 1 of wristbands (the wristband 1A), as shown in Fig. 1(3), comprises a band base material 2 in a strip shape, an adhesive layer 3 formed entirely on a rear surface of the band base material 2, and a mount 4 in a strip shape temporarily attached to the adhesive layer 3 to cover it.

[0039]

The band base material 2 is a synthetic paper which is based on, for example, polypropylene (PP), polystyrene (PS), polyethylene (PE) and the like, and mixed with or coated with a white pigment. Thus, by providing the base material 2 with opacity, fitness for printing and smoothness, the band base material 2 is excellent in weather resistance, water resistance and printability. The band base material 2, as shown in Fig. 1(1), has a central region 5 located at the center substantially in a longitudinal direction of the wristband 1A, and a first winding region 6 and a second winding region 7 located respectively in the left and right ends of the central region 5, which are capable of being wound around a subject W such as a wrist or ankle (Figs. 4 and 5) in conjunction with the central region 5. The central

region 5 is printable of specific information to identify patients or visitors using bar codes or any other means such as characters or symbols, and further, if necessary, an IC chip (not shown) capable of storing information much more.

[0040]

In addition to the central region 5 printable of "specific information" thereon as above, for example, an advertisement column 8, in which "advertisement information" is possibly printed in advance, may be provided on the first winding region 6. Further, a usage column 9, in which "usage (how to wind this around a wrist and the like)" is possibly printed in advance, may be provided on the second winding region 7. Note that, depending on usage patterns of the wristband 1A, a printing position, including a case of printing in advance, of the above information on the first winding region 6 and the second winding region 7 may be designed at will. For example, the advertisement column 8 may be provided on the central region and the specific information may be printed on the first winding region 6. Other than that, the advertisement column 8 may be provided on the second winding region 7. Advantageously, advertising effects can be obtained more reliably and efficiently, in case where the advertisement column 8, in which advertisement information on the wristband 1A in use or providers thereof is possibly printed in advance, is provided on at least one of a front surface and a rear surface of the first winding region 6. For example, in the case where the advertisement column 8 is provided on a front surface of the first winding region 6, as described later using Figs. 4 and 5, a user (an operator of winding) see necessarily a front surface of the first winding region 6 in a second step of adhering and then see necessarily advertisement information. Alternatively, in the case where the advertisement column 8 is provided on a rear surface (a rear surface of the adhesive layer 3 or a rear surface of the mount 4) of the first winding region 6, as described below using Figs. 3 and 4, a user (an operator of winding) see necessarily a rear surface of the first winding region 6 in a first step of adhering and then see necessarily advertisement information. When the advertisement column 8 is provided in advance on a rear surface of the first winding region 6, advertisement information in the advertisement column 8 may be designed in combination with a first adhesion position mark 18, or a second adhesion position mark 19A in a broken line (a first adhesion position guide) and a second adhesion position mark 19 in a broken line (a second adhesion position guide) (as described below using Figs 1(2) and 2(1)). Further, a adhesion range printing column 10, in which "adhesion range" (as described using Figs. 4 and 5) is possibly printed in advance, may also be provided on the right side in Fig. 1 of the usage printing column 9 of the second winding region 7 (on a upstream side in a transport direction R of the continuous body 1 of wristbands), and as a result a finally desired adhesion range of the second adhesion range 23 (as described using Fig. 4) may be shown.

[0041]

In the band base material 2, a notch portion 11 for fracture is formed in the first winding region 6. The notch portion 11 is a cut in any shape with notch ends directing toward the upstream side and the downstream side of the continuous body 1 of wristbands (the wristband 1A). The notch portion 11, when attempted is peeling off incorrectly in either direction in the state of the adhesion of the first winding region 6 and the second winding region 7, makes difficult recovering the original condition since at least one of the first winding region 6 and the second winding region 7 is fractured. Of course, the notch portion 11 for fracture may be formed in at least one of the first winding region 6 and the second winding region 7 to be adhered to each other eventually.

[0042]

Incidentally, the band base material 2 is formed with a first band separation line 12 and a second band separation line 13 to form the wristband 1A in one piece. In Figs., shown is an example in which the wristband 1A in one piece is possibly detached by forming weeding portions between a plurality of wristbands 1A. In this addition, it may be configured to detach the wristband 1A in one piece by forming perforations or cuts for separation (both not shown) between a plurality of wristbands 1A.

[0043]

The adhesive layer 3 is in any type having adhesiveness or cohesiveness in strength required, and preferably an ordinary paste or a strengthen paste. Note that, by applying non-adhesive ink and the like on the edges 3A (edges on the upstream side, in Fig. 1 (3)) in a width direction of the adhesive layer 3 in contact with the first band separation line 12 in the first winding region 6, it makes easy operation of peeling off the band base material 2 and the mount 4 from the above edges in a width direction.

[0044]

The mount 4 is formed of a transparent material and the like such as a relatively thin film and has the strength required. The mount 4 is formed with an embossed surface 14 on a rear surface thereof to ensure proper breathability between skin even when in direct contact with skin, so that there is no uncomfortable feeling when installed. A position detection mark 15 (Fig. 1(2)) is printed in advance on a rear surface of the mount 4. When the continuous body 1 of wristbands in a state where a plurality of wristbands 1A are successively disposed is installed in a predetermined printer (not shown) and transported toward the transport direction R (Fig. 1(1)) shown by arrow, the position detection mark 15 is detected with any sensor (not shown). Thus, the above specific information and the like is possibly printed on a predetermined position in the central region 5.

[0045]

The mount 4 is possibly separated together with every wristband 1A by a first mount separation line 16 and a second mount separation line 17 such as cuts for separation formed at

positions different from the first band separation line 12 and the second band separation line 13 in the band base material 2. Namely, as shown in Fig. 2(2), in the state the wristband 1A is separated from the continuous body 1 of wristbands, the mount 4 of the second winding region 7 is off from the band base material 2 and protruded toward the opposite side of the first winding region 6 in an end portion of the second winding region 7, namely toward the downstream side in the transport direction R and in the state of a single layer. In other words, the band base material 2 is formed with the first band separation line 12 and the second band separation line 13 so as to form the wristband 1A in one piece, and the mount 4 is formed the first mount separation line 16 and the second mount separation line 17 so as to form the wristband 1A in one piece at positions different from the first band separation line 12 and the second band separation line 13, respectively. Further, the wristbands 1A in one piece, the adhesive layer 3 is possibly exposed by peeling off the mount 4 from the rear surface of the first winding region 6, and the band base material 2 having the adhesive layer 3 exposed is a band base material 2A in a single layer. In addition, the mount 4 is possibly exposed by removing the band base material 2 in the front surface of the second winding region 7, and the mount 4 exposed is a mount 4A in one piece.

[0046]

The mount 4 is made of a transparent material as described above, in particular as shown in Figs. 1(2) and 2(1), and on the rear surface thereof formed with a first adhesion position mark 18 (a first adhesion position guide) and a second adhesion position mark 19 (a second adhesion position guide) in the first winding region 6 and the second winding region 7, respectively. In an example shown in Figs., designing a four-leaf clover, the first adhesion position mark 18 is drawn as incomplete four-leaf clover having three leaves and a stem, and the second adhesion position mark 19 is drawn as a remaining leaf. Specifically, a second adhesion position mark 19A in a dotted line is drawn at a position in the first adhesion position mark 18 to be adhered with the second adhesion position mark 19. Since the mount 4 is transparent, the user can see through the first adhesion position mark 18, the second adhesion position mark 19, further the second adhesion position mark 19A in a dotted line from either the front surface or the rear surface.

[0047]

Note that, in the present invention, the first adhesion position guide position and the second adhesion position guide may be adhesion position marks printed in advance on the first winding region 6 and the second winding region 7. Any design can be employed as these marks, for example, something as simple as “circle, cross or triangle”, something like a tally that makes sense in pairs, something like a pair at different concentrations in the same shape, and something capable of advertising, etc.

[0048]

Note that, by forming a band removal notch 20 and a mount removal notch 21 in

half-cut, perforation and the like in the band base material 2 and the mount 4, it is possible to facilitate the removal by fracture after regular use. However, it is desirable to keep shifting positions of half-cut or perforation in the band base material 2 and the mount 4.

[0049]

Now, referring to Figs. 3 to 5, described is how to operate in winding the continuous body 1A (the wristband 1A) in configuration as above around a subject W. Fig. 3 is a perspective view illustrating a first stage of winding a wristband 1A in a ring shape separated from a continuous body 1 of wristbands, and the mount 4 on the rear surface of the first winding region 6 is peeled off to expose the adhesive layer 3 (a step of exposing). When the mount 4 is peeled off, since the wristband 1A has been separated before that, the mount 4 namely the mount 4A in a single layer located at the tip portion (a front end of the most downstream side) of the continuous body 1A of wristbands is already separated from the band base material 2 (the band base material 2A in a single layer) in an upper layer side thereof. Therefore, there is no need to peel off the band base material 2 from the mount 4 at the downstream side, and the wristband 1A in the state shown in Figs. 2 and 3 can be easily obtained by peeling off the band base material 2 from the mount 4 in the first band separation line 12 of the band base material 2 at the upstream side. In the state shown in Fig. 3, the second adhesion position mark 19 in the second winding region 7 is adhered toward the direction (an arrow shown in Fig.) the first adhesion position mark 18 in the first winding region 6.

[0050]

Fig. 4 is a perspective view illustrating a first step of adhering a rear surface of the first winding region 6 to a rear surface of the second winding region 7. The second adhesion position mark 19 in the second winding region 7 (the mount 4A in a single layer) is adhered to the first adhesion position mark 18 (more specifically, the second adhesion position mark 19A in a dotted line) so as to complete the design of four-leaf clover, and the tip of the mount 4A in a single layer is adhered to the adhesive layer 3 of the band base material 2A in a single layer. However, in the first adhesion step, since the mount 4A (the mount 4) in a single layer is transparent, it is possible to see through the second adhesion position mark 19 on the rear surface thereof. Note that provided is at least one of the first adhesion position mark 18 (the first adhesion position guide) and the second adhesion position mark 19 (the second adhesion position guide) on the adhesive layer 3. For example, the first adhesion position mark 18 and the second adhesion position mark 19A in a dotted line marks in the first winding region 6 can be printed directly on the adhesive layer 3 instead of a rear surface of the mount 4, such that the first adhesion position mark 18 and the second adhesion position mark 19A in a dotted line can be seen through the mount 4 of the lower side in the part printed and the mount 4 in a single layer 4, since the mount 4 of the lower side in the part printed is transparent,

[0051]

In the first adhesion step, particularly as shown in Figs. 2(2) and 4 (further, Fig. 5), the adhesive layer 3 is possibly defined into a first adhesion region 22 to be adhered with a rear surface of the second winding region 7 and a second adhesion region 23 to be adhered with a front surface of the second winding region 7. In short, the mount 4 on the rear surface of the first winding region 6 (the mount 4A to be in a single layer on the upstream side when the wristband 1A is in use) is peeled off to expose the adhesive layer 3. The rear surface of the first winding region 6 having the adhesive layer exposed and the rear surface of the second winding region 7 are possibly formed in a ring shape to wind it around the subject W by adhesively overlapping both rear surfaces such that the first adhesion position mark 19 and the second adhesion position mark 19A are put together with each other while leaving a part (a second adhesion region 23) of the adhesive layer 3 to be possibly exposed.

[0052]

Further, in the first adhesion step, the wristband 1A can be formed in a ring shape regardless the subject W at a place away from the subject W. So, it is possible for the user to do the above operation with both hands in winding the wristbands 1A alone, and thus the user can avoid doing cumbersome and inaccurate operation as usual that the wristband 1A is wound around one wrist and the first winding region 6 and the second winding region 7 are adhered using the other hand. Furthermore, in a state where the first winding region 6 and the second winding region 7 as shown in Fig. 4, the wristband 1A in a ring shape has substantially a maximum diameter or a maximum size as designed and thus the subject W such as a wrist or an ankle varying in size based on the user can easily pass through the same.

[0053]

Fig. 5 is a cross sectional view illustrating a second adhesion step of adhering a rear surface of the first winding region 6 to a surface of the second winding region 7. In this step, in a state where the subject W inserted into the wristband 1A (Fig. 4) formed in a ring shape in the first adhesion step, the first winding region 6 having the adhesive layer 3 (the second adhesion region 23) remaining partially to be possibly exposed on the rear surface of the first winding region 6 is adhered to the front surface of the second winding region 7 so as to complete the winding to the subject W. In particular, as shown by each arrow in Fig. 5, the second adhesion position mark 19 of the mount 4 in a single layer in the second winding region 7 is put together with the first adhesion position mark 18 and the second adhesion position mark 19A in a dotted line in the first winding region 6. The mount 4A in a single layer is adhered to the first adhesion region 22 in the first winding region 6 (the adhesive layer 3). Further, the band base material 2A in a single layer in the first winding region 6 is adhered to the adhesion range printing column 10 of the second winding region 7 via the second adhesion region 23. In addition, the work of adhering the band base material 2A in a single layer to the adhesion range printing column 10 is done by the user with one hand, but it

can be done easily and accurately since the wristband 1A having predetermined rigidity has been already formed in a ring shape by adhering properly and accurately both ends thereof.

[0054]

Therefore, in the first adhesion step as shown in Fig. 4, the wristband 1A can be adhered in a ring shape so as to obtain a maximum diameter of substantially constant with respect to the subject W, namely, the size of the ring made by the wristband 1A can be kept constant, and then, in the second adhesion step as shown in Fig. 5, the wristband 1A can be adhesively secured in a ring shape while adjusting the diameter appropriate to the subject W varying in size to complete the winding.

[0055]

In addition, by forming a plurality of perforations 24 (imaginary lines in Figs. 2(2) and 4) parallel to each other in the width direction, the band base material 2 in the second winding region 7 may be lowered in rigidity, or the band base material 2 may be provided with flexibility, so as to fit a ring state, where the band base material 2 is in double in the inner side of the wristband 1A formed in the second adhesion step, to the subject W.

[0056]

Thus, the mount 4 with embossment 14 is possibly in direct contact with the subject W during use, and can be used as it is without throwing it away. In addition, it is possible to wind the wristband 1A having a size appropriate to the size of the subject W. When, for example, the user himself/herself carries out it alone, the operation of winding can be carried out with both hands in the first adhesion step to ensure proper adhesion position or range, an adhesion state or an adhesion posture to an incorrect position significantly deviated from the proper position can be avoided.

[0057]

Next, referring to Figs. 6 to 10, described are a wristband, a continuous body of the wristbands and method for winding the wristband according to a second example of the present invention. Fig. 6 is an illustration showing a continuous body 30 of wristbands, and Fig. 6(1) is a plan view, Fig. 6(2) is a rear view, and Fig. 6(3) is a cross sectional view thereof, respectively. Fig. 7 is an illustration showing a wristband 30A according to the second example of the present invention, and Fig. 7(1) is a rear view, and Fig. 7(2) is a cross sectional view thereof, respectively. In the following description, described is only the parts that are different from the first example, and omitted are the details of the parts similar thereto by allocating the same reference signs. The continuous body 30 of wristbands and the wristband 30A are different from the continuous body 1 of wristbands and the wristband 1A (Figs. 1 to 5) in the point of structure of both ends of the mount 4, that is, the first adhesion position guide (a bend line 33 in a chevron shape) and the second adhesion position guide (a mount 4B in a single layer having a tip portion in a triangular or chevron shape). That is, the wristband 30A is obtained in one piece by forming the band base material 2 to have the first

separation line 12 and the second separation line 13 in the same manner to the continuous body 1 of wristbands and the wristband 1A, and a first mount separation line 31 in a chevron shape corresponding to the first mount separation line 16 and a second mount separation line 32 in a chevron shape corresponding to the second mount separation line 32 in the continuous body 1 of wristbands.

[0058]

Therefore, the mount 4 located on the opposite side (the downstream side) of the band base material 2A in a single layer becomes the mount 4B in a single layer having the end portion in a triangle shape. The first adhesion position guide corresponding to the mount 4B in a single layer is printed in advance on the adhesive layer 3 of the band base material 2 in a single layer as the bend line 33 in a chevron shape in place of the first adhesion position mark 18 in the wristband 1A. Conversely speaking, the second adhesion position guide corresponding to the first adhesion position guide (the bend line 33 in a chevron shape) in the first winding region 6 is the mount 4B in a single layer having the end portion in a chevron shape as an adhesion position guide fragment formed in advance in a predetermined form (in an example shown in Figs, the end portion in a chevron shape, for example) in the second winding region 7. Of course, the band base material 2A in a single layer may be formed with the end portion in a triangular shape similar to the mount 4 in a single layer to be the first adhesion position guide fragment without forming the bend line 33 in a chevron shape in the first winding region 6. Note that, by configuring the first adhesion position guide and the second adhesion position guide as adhesion position guide fragments such as the mount 4B in a single layer having the end portion in a triangular shape, there is no possibility of disappearing by wearing away just in case unlike the first adhesion position mark 18, the second adhesion position mark 19 or the second adhesion position mark 19A which are printed in advance on the rear surface of the mount 4 in the first example (Fig. 1(2)) as described above.

[0059]

Now, referring to Figs. 8 to 10, described is how to operate in winding around the subject W the wristband 30A separated from the continuous body 30 in configuration as above. Fig. 8 is a perspective view illustrating a first stage of winding the wristband 30A in one piece separated from the continuous body 30 of wristbands, and the mount 4 on the rear surface of the first winding region 6 is peeled off to expose the adhesive layer 3 (an exposure step) in the same manner as the continuous body 1 of wristbands and the wristband 1A. In the state shown in Fig. 8, the mount 4B in a single layer in the second winding region 7 is adhered toward the direction (an arrow shown in Fig.) of the bend line 33 in a chevron shape in the first winding region 6.

[0060]

Fig. 9 is a perspective view illustrating a first adhesion step of adhering a rear surface

of the first winding region 6 to a rear surface of the second winding region 7. The end portion in a triangular shape of the mount 4B in a single layer in the second winding region 7 is adhered to the bend line 33 in a chevron shape in the first winding region 6, and the end side of the mount 4B in a single layer is adhered to the adhesive layer 3 of the band base material 2A in a single layer. However, in the first adhesion step, since the mount 4B (the mount 4) in a single layer is transparent, it is possible to see through the end portion of the mount 4B in a single layer even when the end portion overlaps slightly the bend line 33 in the rear surface of the band base material 2A.

[0061]

In short, the mount 4 (the mount 4B to be in a single layer on the upstream side when the next wristband 1A is in use) on the rear surface of the first winding region 6 is peeled off to possibly expose the adhesive layer 3. The rear surface of the first winding region 6 having the adhesive layer 3 exposed and the rear surface of the second winding region 7 are possibly formed in a ring shape to wind it around the subject W by adhesively overlapping both rear surfaces such that the bend line mark 33 (the first adhesion position guide) and the end portion of the mount 4B (the second adhesion position guide) in a single layer are put together with each other while leaving a part (a second adhesion region 23) of the adhesive layer 3 to be possibly exposed. In the first adhesion step, since the mount 4B in a single layer has merely an edge portion in a predetermined shape, it is easy to put it on the bend line 33 in a chevron shape.

[0062]

Further, in the first adhesion step, the wristband 30A can be formed in a ring shape regardless the subject W at a place away from the subject W in the same manner as the wristband 1A in the first example. So, it is possible for the user to avoid doing cumbersome operation of winding the wristband 1A alone and to make the wristband 1A in a ring shape to substantially a maximum diameter or a maximum size as designed.

[0063]

Fig. 10 is a cross sectional view illustrating a second adhesion step of adhering a rear surface of the first winding region 6 to a front surface of the second winding region 7. In this step, in a state where the subject W is inserted into the wristband 30A (Fig. 9) formed in a ring shape in the first adhesion step, the first winding region 6 having the adhesive layer 3 (the second adhesion region 23) remaining partially to be possibly exposed on the rear surface of the first winding region 6 is adhered to the front surface of the second winding region 7 so as to complete the winding to the subject W. In particular, as shown by each arrow in Fig. 10, the end portion of the mount 4B in a single layer in the second winding region 7 is put on the bend line 33 in a chevron shape in the first winding region 6. The mount 4B in a single layer is adhered to the first adhesion region 22 in the first winding region 6 (the adhesive layer 3). Further, the band base material 2A in a single layer in the first winding region 6 is adhered to

the adhesion range printing column 10 of the second winding region 7 via the second adhesion region 23.

[0064]

Therefore, in the first adhesion step as shown in Fig. 9, the wristband 30A can be adhered in a ring shape so as to obtain a maximum diameter with respect to the subject W, and then, in the second adhesion step as shown in Fig. 10, the wristband 30A can be adhesively secured in a ring shape while adjusting the diameter appropriate to the subject W varying in size to complete the winding.

[0065]

Thus, the mount 4 with embossment 14 is possibly in direct contact with the subject W. Further, it is possible to wind the wristband 30A having a size appropriate to the size of the subject W. When, for example, the user carries out operation of winding by himself/herself alone, the operation can be carried out with both hands in the first adhesion step to ensure proper adhesion position or range, an adhesion state or an adhesion posture to an incorrect position significantly deviated from the proper position can be avoided.

[0066]

Next, referring to Figs. 11 to 15, described are a wristband, a continuous body of the wristbands and a method for winding the wristband according to a third example of the present invention. Fig. 11 is an illustration showing a continuous body 40 of wristbands, and Fig. 11(1) is a plan view, Fig. 11(2) is a rear view and Fig. 11(3) is a cross sectional view thereof, respectively. Fig. 12 is an illustration showing a wristband 40A according to the third example of the present invention, and Fig. 12(1) is a rear view and Fig. 12(2) is a cross sectional view thereof, respectively. The different configurations of the continuous body 40 of wristbands and the wristband 40A from the continuous body 1 of wristbands and the wristband 1A (the first example, Figs. 1 to 5) and the continuous body 30 of wristbands and the wristband 30A (the second example, Figs. 6 to 10) are as follows. The continuous body 40 of wristbands and the wristband 40A do not have the mount 4 in a belt shape (more precisely speaking, the mount 4 is provided on just a part of the rear surface of first winding region 6 as described below), and therefore, the band base material 2 can be in direct contact with the subject W, and the band base material 2 is possibly separated by a first band separation line 41 and a second separation line 42 in perforation and the like, and other structures associated with these structures.

[0067]

First, in the continuous body 40 of wristbands (the wristband 40A), the band base material 2 includes an upstream band base material 2B in the first winding region 6 located in the upstream of the central area 5 and a downstream band base material 2C in the second winding region 7 located in the downstream thereof. The adhesive layer 3 and both of the mount 4 are in a rectangular shape and are provided only on the rear surface of the upstream

band base material 2B. That is, the adhesive layer 3 in the rear surface of the upstream band base material 2B is formed only on a part of the first winding region 6. In particular, as shown in Fig. 12(1), a first adhesion region 43 (a first adhesion position guide represented by “frame X” in Fig. 12(1)) and a second adhesion region 44 (represented by “frame Y” in Fig. 12(1)) adjacent to the first adhesion region 43 are provided as regions corresponding to the first adhesion position mark 18 and the second adhesion position mark 19A in a dotted line in the first winding region 6 (Fig. 2(1)). On the other hand, an adhesion position mark 45 (a second adhesion position guide) is printed in advance on the rear surface of the downstream band base material 2C in the second winding region 7 as a region corresponding to the second adhesion position mark 19 (represented by “to frame X” in Fig. 12(1)).

[0068]

Now, referring to Figs. 13 to 15, described is how to operate in winding around the subject W the wristband 40A separated from the continuous body 40 in configuration as above. Fig. 13 is a perspective view illustrating a first stage of winding the wristband 40A in one piece separated from the continuous body 40 of wristbands, and the mount 4 temporarily attached to the first adhesion region 43 and the second adhesion region 44 in the rear surface of the first winding region 6 is peeled off to expose the adhesive layer 3 (an exposure step). In the state shown in Fig. 13, the adhesion position mark 45 (a portion represented by “to frame X”) in the second winding region 7 is adhered toward the direction (an arrow shown in Fig.) of the first adhesion region 43 (a portion represented by “frame X”) in the first winding region 6.

[0069]

That is, Fig. 14 is a perspective view showing a first adhesion step of adhering the rear surface of the first winding region 6 to the rear surface of the rear surface of the second winding region 7. The adhesion position mark 45 in the second winding region 7 (the downstream band base material 2C) is adhered to the first adhesion region 43 in the first winding region 6 (the upstream band base material 2B) so as to match each other.

[0070]

In short, the rear surface of the first winding region 6 having the adhesive layer 3 exposed and the rear surface of the second winding region 7 are possibly formed in a ring shape to wind it around the subject W by adhesively overlapping the first adhesion region 43 and the adhesion position mark 4 such that they are put together with each other while leaving a part (the second adhesion region 44 represented by “frame Y”) of the adhesive layer 3 to be possibly exposed. In the first adhesion step, since the adhesion position mark 45 is merely represented by “to frame X”, it is easy to put it on the first adhesion region 43

[0071]

Further, in the first adhesion step, the wristband 40A can be formed in a ring shape regardless the subject W at a place away from the subject W. So, it is possible for the user to

avoid doing cumbersome operation of winding the wristband 1A by himself/herself alone and to make the wristband 30A in a ring shape to substantially a maximum diameter or a maximum size as designed.

[0072]

Fig. 15 is a cross sectional view illustrating a second adhesion step of adhering a rear surface of the first winding region 6 to a front surface of the second winding region 7. In this step, in a state where the subject W is inserted into the wristband 40A (Fig. 12) formed in a ring shape in the first adhesion step, the first winding region 6 (the upstream band base material 2B) having the adhesive layer 3 (the second adhesion region 44) remaining partially to be possibly exposed on the rear surface of the first winding region 6 is adhered to the front surface of the second winding region 7 (the downstream band base material 2C) so as to complete the winding to the subject W. In particular, as shown by each arrow in Fig. 15, the adhesion position mark 45 in the second winding region 7 is put on the first adhesion region 43 in the first winding region 6. Further, the upstream band base material 2B is adhered to the adhesion range printing column 10 of the second winding region 7 via the second adhesion region 44.

[0073]

Therefore, in the first adhesion step as shown in Fig. 14, the wristband 40A can be adhered in a ring shape so as to obtain a maximum diameter with respect to the subject W, and then, in the second adhesion step as shown in Fig. 15, the wristband 30A can be adhesively secured in a ring shape while adjusting the diameter appropriate to the subject W varying in size to complete the winding.

[0074]

Thus, the band base material 2 is possibly in direct contact with the subject W, and the continuous body 40 of wristbands can be manufactured at low cost due to a little consumption of the mount 4. Further, it is possible to wind the wristband 40A having a size appropriate to the size of the subject W. When, for example, the user carries out operation of winding by himself/herself alone, the operation can be carried out with both hands in the first adhesion step to ensure proper adhesion position or range, an adhesion state or an adhesion posture to an incorrect position significantly deviated from the proper position can be avoided.

[0075]

Next, referring to Fig. 16 to Fig. 20, described is a wristband, a continuous body of the wristbands and a method for winding the wristband according to a fourth example of the present invention. Fig. 16 is an illustration showing a continuous body 50 of wristbands, and Fig. 16(1) is a plan view, Fig. 16(2) is a rear view, and Fig. 16(3) is a cross sectional view thereof, respectively. Fig. 17 is an illustration showing a wristband 50A according to the fourth example of the present invention, and Fig. 17(1) is a rear view and Fig. 17(2) is a cross

sectional view thereof, respectively. The continuous body 50 of wristbands and the wristband 50A, similar to the continuous body 30 of wristbands and the wristband 30A (the second example, Figs. 6 and 7), differ from the continuous body 1 of wristbands and the wristband 1A (Figs. 1 to 5) in a structure of both end portions of the mount 4, in which a first adhesion position guide (a flexion line mark 51 in a narrow mountain shape) and a second adhesion position guide (a mount 4C in a single layer having a tip end portion in a narrow mountain shape) are formed. In other words, the wristband 50A is obtained in a single piece by cutting a first band separation line 52 (a first cut for separating a band) at the upstream, which is in an arc shape convex in a direction R of transferring the continuous body 50 of wristbands, and a second band separation line 62 (a second cut for separating a band) at the downstream, which is similarly in an arc shape, with regard to the band base material 2, and also by cutting a first mount separation line 54 in a narrow mountain shape corresponding to a first mount separation line 31 of the continuous body 30 of wristbands and a second mount separation line 55 in a narrow mountain shape corresponding to the second mount separation line 32 thereof.

[0076]

Therefore, the mount 4 located on the opposite side (or downstream) of the band base material 2D in a single layer becomes the mount 4C, which has its tip end portion in a narrow mountain shape. The first adhesion position guide to meet with the mount 4C in a single layer is formed by printing in advance the flexion mark 51 on the adhesive layer 3 of the band base material 2D in a single layer. Conversely, the second adhesion position guide to meet with the first adhesion position guide (the flexion line mark 51) in the first winding region 6 is the mount 4C in a single layer having a tip end portion in a narrow mountain shape formed in advance.

[0077]

Now, referring to Figs. 18 to 20, described is how to operate in winding around the subject W the wristband 50A separated from the continuous body 50 in configuration as above. In the continuous body 50 of wristbands and the wristband 50A in one piece, similar to the continuous body 1 of wristbands and the wristband 1A (the first example, Figs. 1 and 2) and the continuous body 30 of wristbands and the wristband 30A (the second example, Figs. 6 and 7), the adhesive layer 3 is possibly exposed after the mount is peeled off from the rear surface of one end portion (the band base material 2D in a single layer) of the band base material 2. And also, the mount 4 (the mount 4C in a single layer) is exposed by peeling off the band base material 2 in the front surface of the other end portion of the band base material 2. So, the wristband 50A in one piece can be formed in a ring shape once the wristband 50A is separated from the most end portion of the continuous body 50 of wristbands. Fig. 18 is a perspective view illustrating a first stage of winding the wristband 50A in one piece separated from the continuous body 50 of wristbands, and the mount 4 on the rear surface of the first

winding region 6 is peeled off to expose the adhesive layer 3 (an exposure step) in the same manner as the continuous body 30 of wristbands and the wristband 30A. Note that, since a band separation line 52 at the upstream is in an arc shape, it is easy to find a peeling position in separating the wristband 50A from the continuous body 50 of wristbands and workability is improved as result. In the state shown in Fig. 18, the mount 4C in a single layer in the second winding region 7 is adhered toward the direction (an arrow shown in Fig.) of the bend line 51 in a narrow mountain shape in the first winding region 6.

[0078]

Fig. 19 is a perspective view illustrating a first adhesion step of adhering a rear surface of the first winding region 6 to a rear surface of the second winding region 7. The end portion in a narrow mountain shape of the mount 4C in a single layer in the second winding region 7 is adhered to the bend line 51 in a narrow mountain shape in the first winding region 6, and the end side of the mount 4C in a single layer is adhered to the adhesive layer 3 of the band base material 2D in a single layer. However, in the first adhesion step, since the mount 4C (the mount 4) in a single layer is transparent, it is possible to see through the end portion of the mount 4C in a single layer even when the end portion overlaps slightly the bend line 51 in the rear surface of the band base material 2D.

[0079]

In short, the mount 4 (the mount 4C to be in a single layer on the upstream side when the next wristband 50A is in use) on the rear surface of the first winding region 6 is peeled off to possibly expose the adhesive layer 3. The rear surface of the first winding region 6 having the adhesive layer 3 exposed and the rear surface of the second winding region 7 are possibly formed in a ring shape to wind it around the subject W by adhesively overlapping both rear surfaces such that the bend line mark 51 (the first adhesion position guide) and the end portion of the mount 4C (the second adhesion position guide) in a single layer are put together with each other while leaving a part (a second adhesion region 23) of the adhesive layer 3 to be possibly exposed. In the first adhesion step, since the mount 4C in a single layer has merely an edge portion in a predetermined shape, it is easy to put it on the bend line mark 51 in a narrow mountain shape.

[0080]

Further, in the first adhesion step, the wristband 50A can be formed in a ring shape regardless the subject W at a place away from the subject W in the same manner as the wristband 1A in the first example. So, it is possible for the user to avoid doing cumbersome operation of winding the wristband 1A alone and to make the wristband 50A in a ring shape to substantially a maximum diameter or a maximum size as designed.

[0081]

Fig. 20 is a cross sectional view illustrating a second adhesion step of adhering a rear surface of the first winding region 6 to a front surface of the second winding region 7. In

this step, in a state where the subject W is inserted into the wristband 50A (Fig. 19) formed in a ring shape in the first adhesion step, the first winding region 6 having the adhesive layer 3 (the second adhesion region 23) remaining partially to be possibly exposed on the rear surface of the first winding region 6 is adhered to the front surface of the second winding region 7 so as to complete the winding to the subject W. In particular, as shown by each arrow in Fig. 20, the end portion of the mount 4C in a single layer in the second winding region 7 is put on the bend line mark 51 in a narrow mountain shape in the first winding region 6. The mount 4C in a single layer is adhered to the first adhesion region 22 in the first winding region 6 (the adhesive layer 3). Further, the band base material 2D in a single layer in the first winding region 6 is adhered to the adhesion range printing column 10 of the second winding region 7 via the second adhesion region 23.

[0082]

Therefore, in the first adhesion step as shown in Fig. 19, the wristband 50A can be adhered in a ring shape so as to obtain a maximum diameter with respect to the subject W, and then, in the second adhesion step as shown in Fig. 20, the wristband 50A can be adhesively secured in a ring shape while adjusting the diameter appropriate to the subject W varying in size to complete the winding.

[0083]

Thus, the mount 4 with embossment 14 is possibly in direct contact with the subject W during use, and can be used as it is without throwing it away. In addition, it is possible to wind the wristband 50A having a size appropriate to the size of the subject W. When, for example, the user himself/herself carries out it alone, the operation of winding can be carried out with both hands in the first adhesion step to ensure proper adhesion position or range, an adhesion state or an adhesion posture to an incorrect position significantly deviated from the proper position can be avoided.

[0084]

Next, referring to Fig. 21, described is a wristband, a continuous body of the wristbands and a method for winding the wristband according to a fifth example of the present invention. Fig. 21 is an illustration showing a continuous body 60 of wristbands, and Fig. 21(1) is a plan view, Fig. 21(2) is a rear view, and Fig. 21(3) is a cross sectional view thereof, respectively. The continuous body 60 of wristbands and a wristband 60A, similar to the continuous body 50 of wristbands and the wristband 50A (the fourth example, Figs. 16 and 17), the mount 4 is formed with a first separation line 54 in a narrow mountain shape and a second separation line 55 in a narrow mountain shape. However, the band base material 2 is formed with a first band separation line 61 (a first cut for separating a band) at the upstream and a second band separation line 62 (a second cut for separating a band) at the downstream so as to obtain the wristband 60A in one piece.

[0085]

Each of the first band separation line 61 and the second band separation line 62 is a cut for separating to the wristbands 60A in one piece and the same shape and a space 63 for detecting the position is formed in the place of the cut for separating. Note that an edge surface portion 63A of the band base material 2 at either upstream or downstream of the space 63 for position detection is possibly detected with a position detection sensor (not shown) without printing in advance a position detecting mark 15 (see Fig. 1, for example) on the rear surface of the mount 4. Therefore, it is possible to avoid difficulty in detecting the position such that the position detection mark position 15 formed on the rear surface of the mount 4 should fall off due to wear.

[0086]

Omitted is the detailed description of operations in winding the wristband 60A in one piece separated from the continuous body 60 of wristbands as configured above, since it is similar to steps as shown in Figs. 18 to 20 with reference to the continuous body 50 and the wristband 50A according to the fourth example.

REFERENCE SIGNS LIST

[0087]

1...continuous body of wristbands (the first example, Figs. 1 to 5), 1A...wristband (the first example, Fig. 2), 2...band base material in strip, 2A...band base material in a single layer (Fig. 2, Fig. 7), 2B...band base material of upstream (Figs. 11 to 15), 2C...band base material of downstream (Figs. 11 to 15), 2D...band base material in a single layer (Fig. 17), 3...adhesive layer, 3A...edge in widthwise of adhesive layer 3 (edge thereof of upstream, Fig. 1(3)), 4...Mount, 4A...mount in a single layer (Fig. 2), 4B...mount in a single layer (second adhesion position guide, adhesion position guide fragment, Fig. 7), 4C...mount in a single layer (second adhesion position guide, adhesion position guide fragment, Fig. 17), 5...central region, 6...first winding region, 7...second winding region, 8...advertisement information printing column, 9...use method printing column, 10...adhesion range printing column, 11...notch portion for fracture, 12...first band separation line, 13...second band separation line, 14...embossed surface, 15...position detecting mark, 16...first mount separation line, 17...second mount separation line, 18...first adhesion position mark (first adhesion position guide), 19...second adhesion position mark (second adhesion position guide), 19A...second adhesion position mark in dotted line (first adhesion position guide), 20...notches for removal of band, 21...notches for removal of mount, 22...first adhesion region of adhesive layer 3, 23...second adhesion region of adhesive layer 3, 24...perforation, 30...continuous body of wristbands (the second example, Figs. 6 to 10), 30A...wristband (the second example, Fig. 7), 31...first mount separation line in chevron shape, 32...second mount separation line in chevron shape, 33... mark in chevron shape (first adhesion position guide), 40...continuous body of wristbands (the third example, Figs. 11 to 15), 40A...wristband (the third example,

Fig. 12), 41...first band separation line, 42...second band separation line, 43...first adhesion region (first adhesion position guide, Fig. 12(1)), 44...second adhesion region, 45...adhesion position mark (second adhesion position guide), 50...continuous body of wristbands (the fourth example, Figs. 16 to 20), 50A...wristband (the fourth example, Fig. 17), 51...mark in bend line shape (first adhesion position guide), 52...first band separation line (first band cut for separation), 53...second band separation line (second band cut for separation), 54...first mount separation line in chevron shape, 55...second mount separation line in chevron shape, 60...continuous body of wristbands (the fifth example, Figs. 21), 60A...wristband (the fifth example, Fig. 21), 61...first band separation line (first band cut for separation), 62...second band separation line (second band cut for separation), 63...interval for position detection, 63A...end face of band base material 2 in interval 63 for position detection, W...a subject to be wound (such as a wrist or an ankle),

CLAIMS

1. A method for winding a belt-shaped band around a subject, comprising:
putting together first and second adhesion position guides that are respectively provided at opposing first and second portions located in a longitudinal direction of a belt-shaped band such that the second portion of the belt-shaped band adheres to a region of an exposed part of an adhesive layer located on a rear surface of the first portion of the belt-shaped band, the region of the exposed part of the adhesive layer being defined by the first adhesion position guide; and affixing a remaining exposed part of the adhesive layer to a front surface of the belt-shaped band.
2. The method according to claim 1,
wherein a diameter of the belt-shaped band is selectively adjusted by affixing the remaining exposed part of the adhesive layer to an arbitrary position of the front surface of the belt-shaped band.
3. The method according to claim 1 or 2,
wherein a substantially maximum diameter of the belt-shaped band is obtained when putting together the first and second adhesion position guides such that the second portion of the belt-shaped band adheres to the region of the exposed part of the adhesive layer defined by the first adhesion position guide .
4. The method according to any one of the preceding claims,
wherein a surface area of the remaining exposed part of the adhesive layer is larger than a surface area of the region of the exposed part of the adhesive layer defined by the first adhesion position guide.
5. A belt-shaped band, comprising:
first and second adhesion position guides that are respectively provided at opposing first and second portions located in a longitudinal direction of a belt-shaped band; and
an adhesion region located on a part of a rear surface of the first portion of the belt-shaped band,
wherein the first and second adhesion position guides are configured and dimensioned such that a part of the adhesion region remains exposed when the first and second adhesion position guides are put together.
6. The belt-shaped band according to claim 5, further comprising:
a band base having an adhesive layer; and

a mount adhesively attached to the adhesive layer.

7. The belt-shaped band according to claim 6,
wherein the adhesion region is a region of the adhesive layer that is not covered by the mount.
8. The belt-shaped band according to claim 6 or 7,
wherein the first adhesion position guide is provided on the band base.
9. The belt-shaped band according to any one of claims 6 to 8,
wherein the second adhesion position guide is provided on the mount.
10. The belt-shaped band according to claim 6 or 7,
wherein the first adhesion position guide is provided on the band base, and the second adhesion position guide is provided on the mount.
11. The belt-shaped band according to any one of claims 6 to 10,
wherein the first and second adhesion position guides are configured and dimensioned such that a diameter of the belt-shaped band wound around a subject is selectively adjustable by affixing the remaining exposed part of the adhesive layer to an arbitrary position of the front surface of the belt-shaped band.
12. The belt-shaped band according to claim 5,
wherein at least one of the first adhesion position guide and the second adhesion position guide is printed on the belt-shaped band.
13. The belt-shaped band according to claim 5,
wherein at least one of the first adhesion position guide and the second adhesion position guide is a predetermined shape located on the belt-shaped band.
14. The belt-shaped band according to any one of claims 5 to 13,
further comprising a plurality of perforations in a width direction across the belt-shaped band.
15. The belt-shaped band according to any one of claims 5 to 14,
wherein the first and second adhesion position guides are configured and dimensioned such that a substantially maximum diameter of the belt-shaped band is obtained when the first and second adhesion position guides are put together.

16. The belt-shaped band according to any one of claims 5 to 15,
wherein the first and second adhesion position guides are configured and dimensioned such that a surface area of the remaining exposed part of the adhesive layer is larger than a surface area of a part of the adhesive layer to which the rear surface of the second portion is affixed when the first and second adhesion position guides are put together.
17. A method for winding a belt-shaped band around a subject, comprising:
defining a remaining exposed part of an exposed adhesive layer located on a rear surface of a first portion of a belt-shaped band by adhering a rear surface of a second portion of the belt-shaped band to the exposed adhesive layer; and
adjusting a diameter of the belt-shaped band by selectively affixing the remaining exposed part of the adhesive layer to an arbitrary position of a front surface of the belt-shaped band.
18. The method according to claim 17, further comprising:
using a second adhesion position guide provided at the second portion of the belt-shaped band to define the remaining exposed part of the adhesive layer when the rear surfaces of the first and second portions are adhered together.
19. The method according to claim 17, further comprising:
using first and second adhesion position guides located at the first and second portions of the belt-shaped band respectively to define the remaining exposed part of the adhesive layer when the rear surfaces of the first and second portions are adhered together.
20. The method according to any one of claims 17 to 19,
wherein a substantially maximum diameter is obtained when the rear surface of the second portion of the belt-shape band is adhered to the adhesive.
21. The method according to any one of claims 17 to 20,
wherein the rear surface of the second portion of the belt-shape band is adhered to the adhesive layer in such that the remaining exposed part of the adhesive layer has a relatively larger surface area than a region to which the rear surface of the second portion of the belt-shape band is adhered.
22. A band comprising:
a belt-shaped body having opposing first and second portions in a longitudinal direction; and
an adhesive layer located on a rear surface of the first portion of the belt-shape body,

wherein a part of the adhesive layer is configured to remain exposed when a rear surface of the second portion is adhered to the adhesive layer such that a remaining exposed part of the adhesive layer is selectively adherable to an arbitrary position of a front surface of the belt-shaped body such that a diameter of the band is adjustable.

23. The band according to claim 22, further comprising:

a first adhesion position guide provided at the first portion of the belt-shape body, wherein the first adhesion position guide is configured to define the remaining exposed part of the adhesive layer when the rear surface of the second portion is adhered to the adhesive layer.

24. The band according to claim 22, further comprising:

a second adhesion position guide provided at the second portion of the belt-shaped body, wherein the second adhesion position guide is configured to define the remaining exposed part of the adhesive layer when the rear surface of the second portion is adhered to the adhesive layer.

25. The band according to claim 23,

wherein the first adhesion position guide is printed on the belt-shaped body or is a predetermined shape located on the belt-shaped body.

26. The band according to claim 24,

wherein the second adhesion position guide is printed on the belt-shaped body or is a predetermined shape located on the belt-shaped body.

27. The band according to any one of claims 22 to 26,

wherein the adhesive layer is configured such that a substantially maximum diameter of the band is obtained when the rear surface of the second portion of belt-shaped body is adhered to the adhesive layer.

28. The band according to any one of claims 22 to 27,

wherein a surface area of the remaining exposed part of the adhesive layer is larger than a surface area of a region of the adhesive layer to which the rear surface of the second portion of belt-shaped body is adhered.