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(54) **SPORTS WRIST BAND**

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(57) **ABSTRACT**

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A sports wrist band is worn on a bare or gloved hand to increase the gripping force of the hand as well as the frictional force of friction with hand-held sporting goods such as a golf club and a baseball bat, thereby contributing to the improvement of sports performance. The sports wrist band includes a wrist band having a length wound at least one turn around the wrist, and including pieces of wrist velcro attached at a predetermined position so as to press and fix the wrist in a state of being wound around the wrist, and a hand band extending from the wrist band, turning around a knife hand portion, and wrapping up a palm portion contacting sporting goods so as to press the palm portion.

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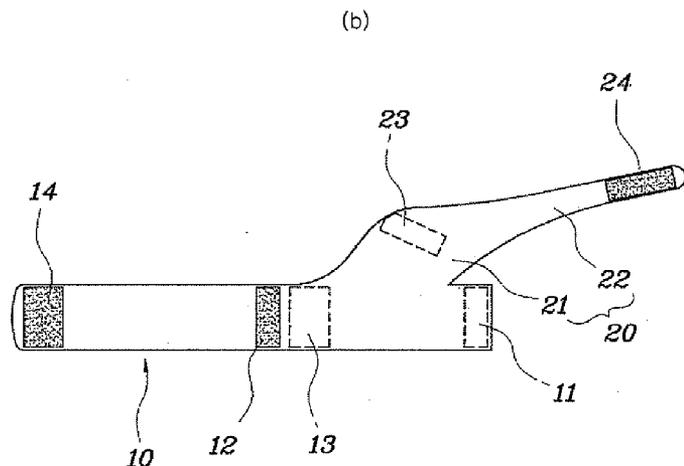
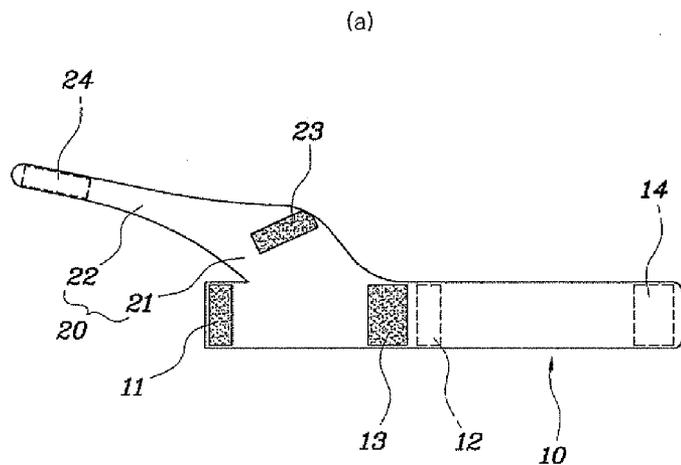


FIG. 1

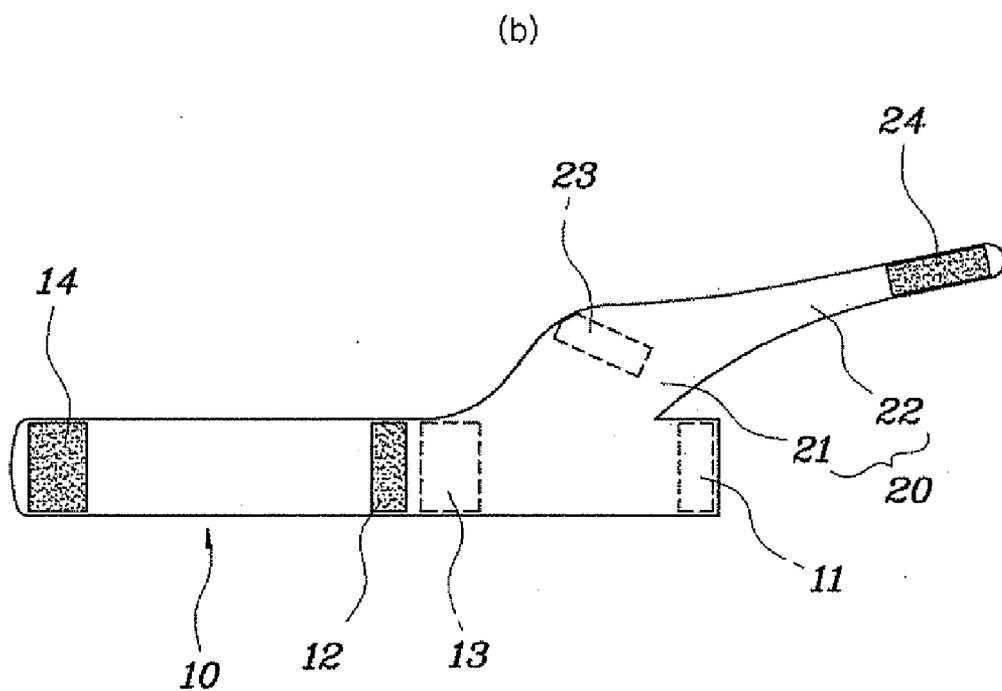
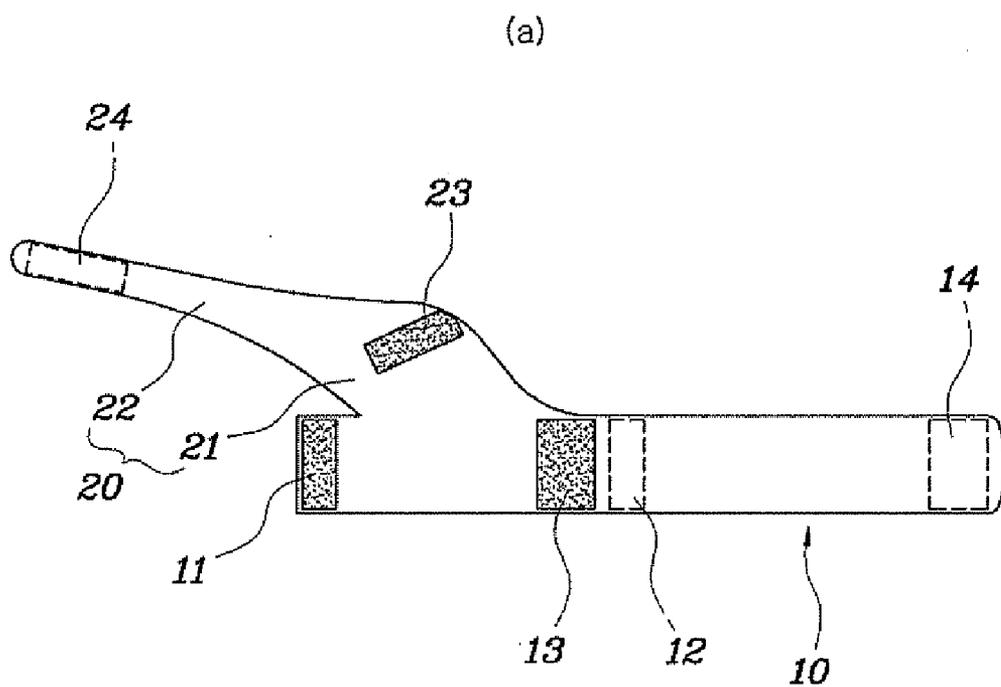


FIG. 2

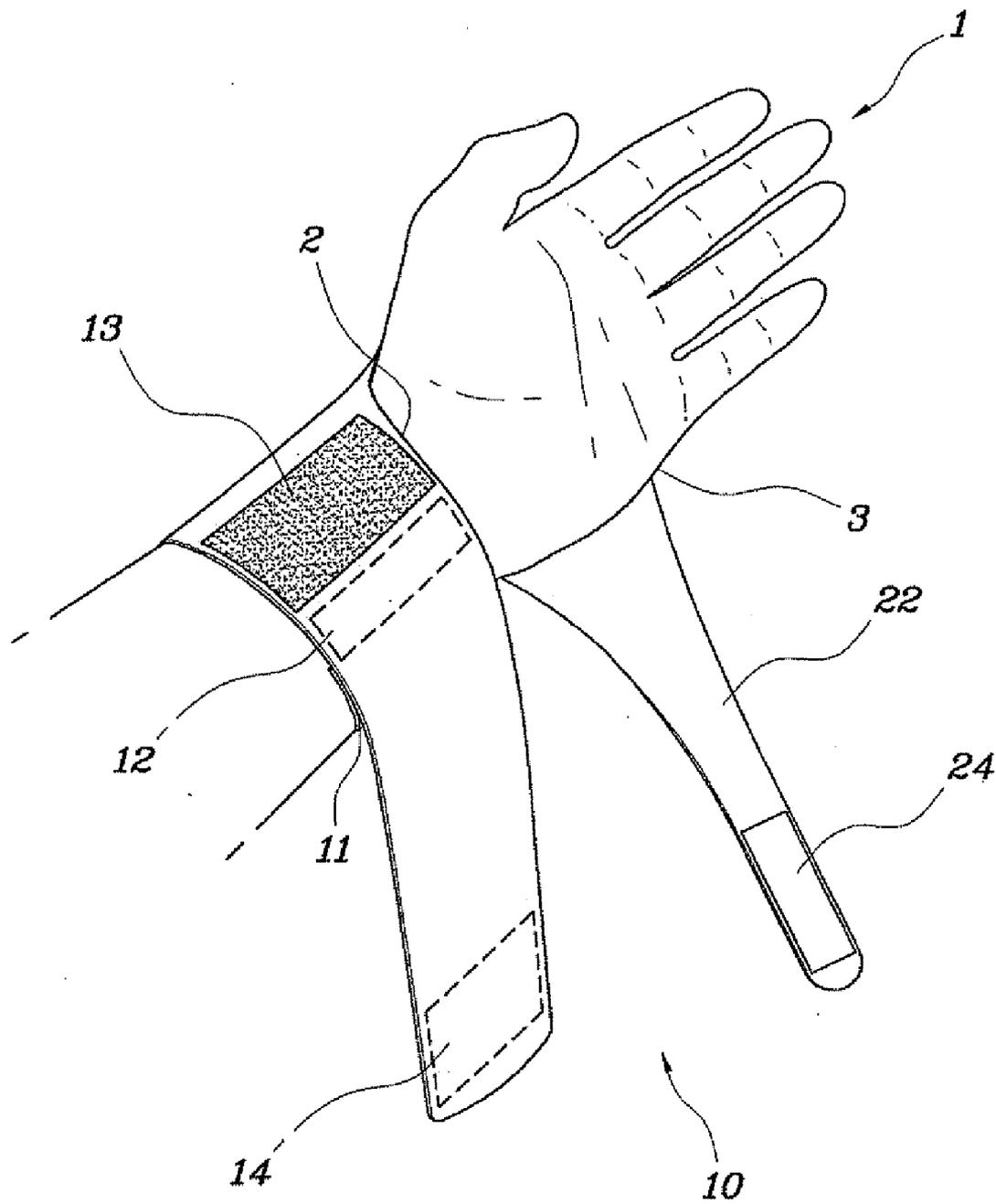


FIG. 3

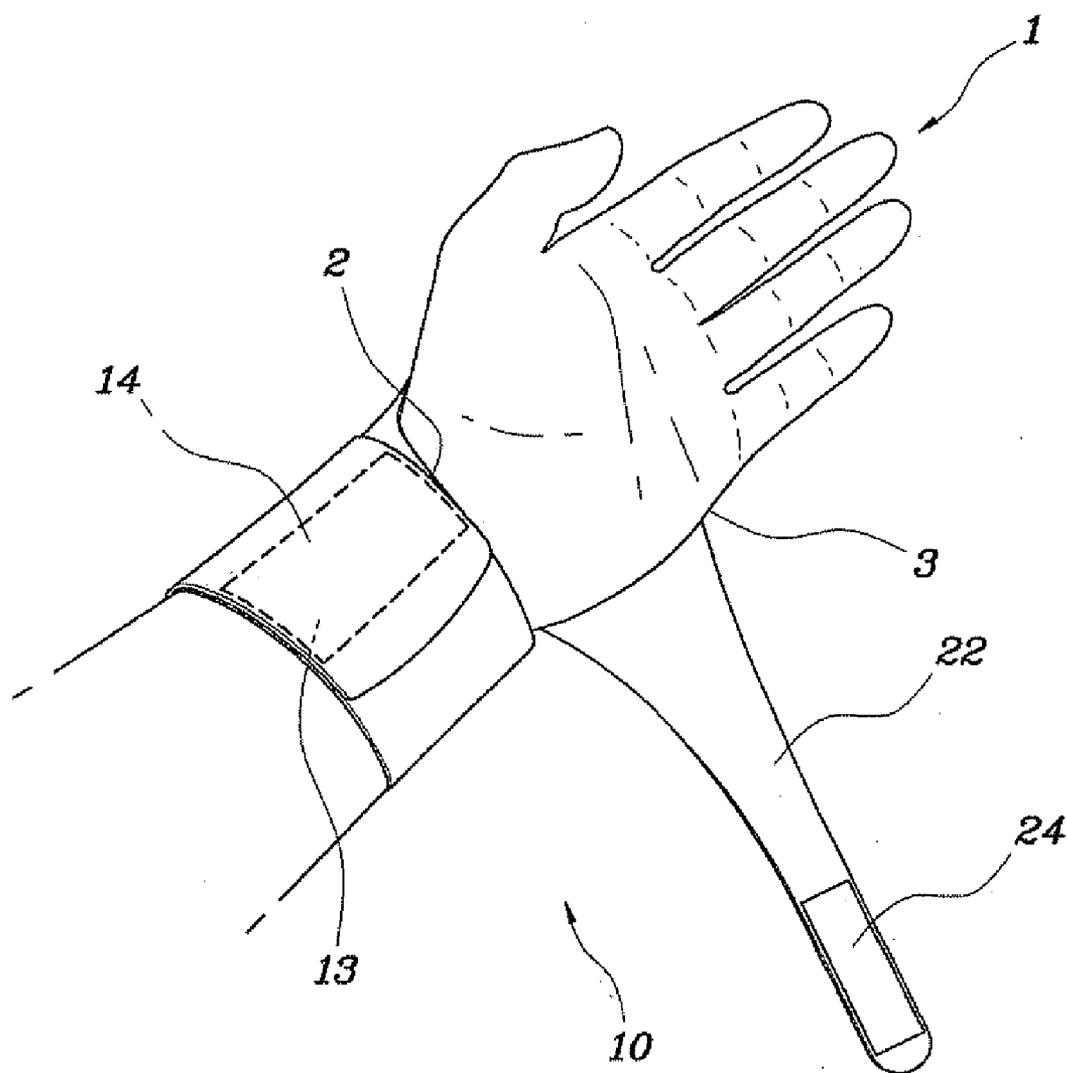


FIG. 4

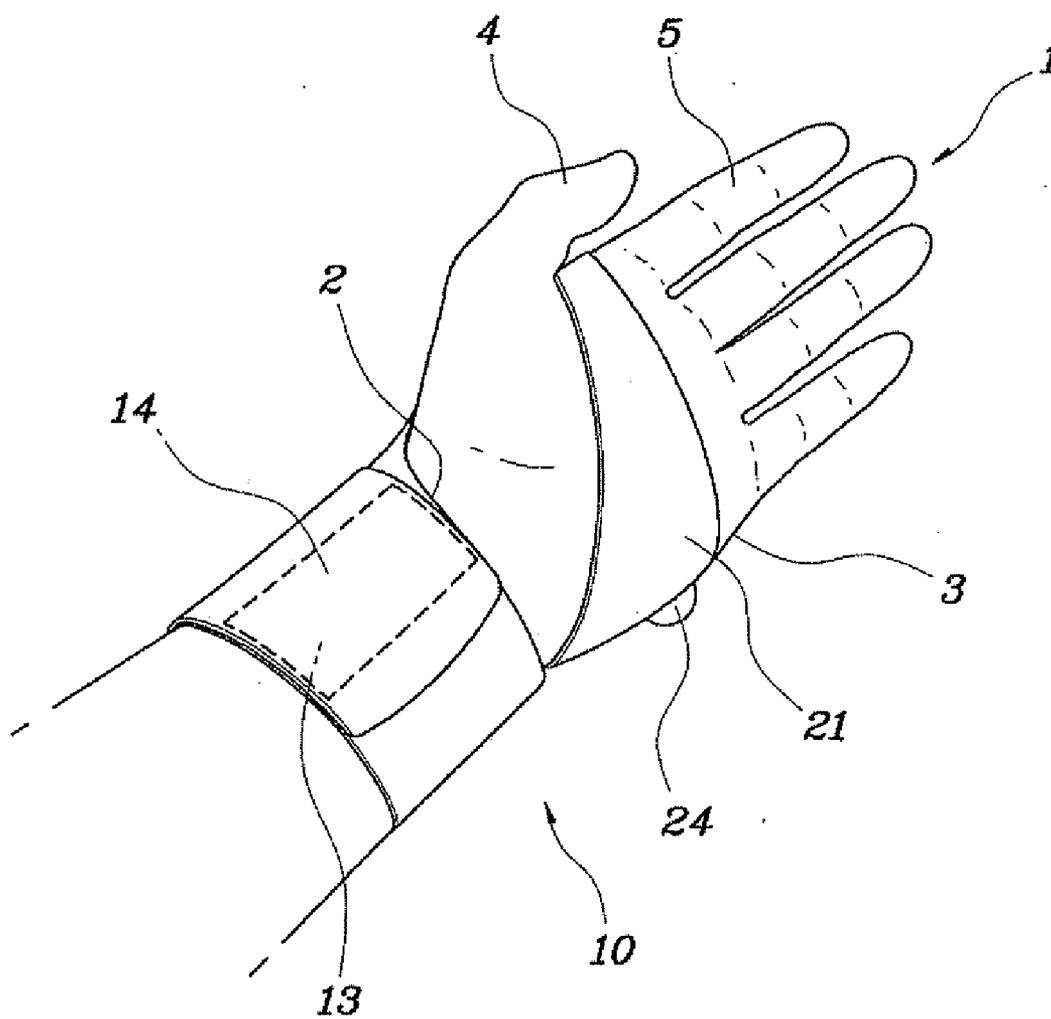


FIG. 5

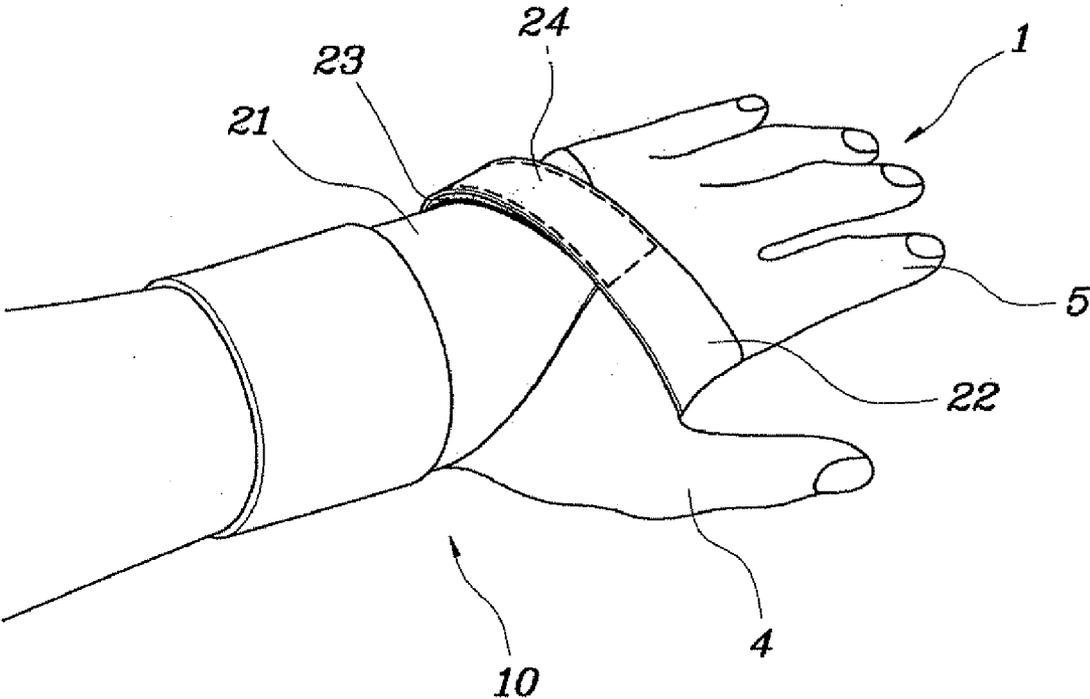


FIG. 6

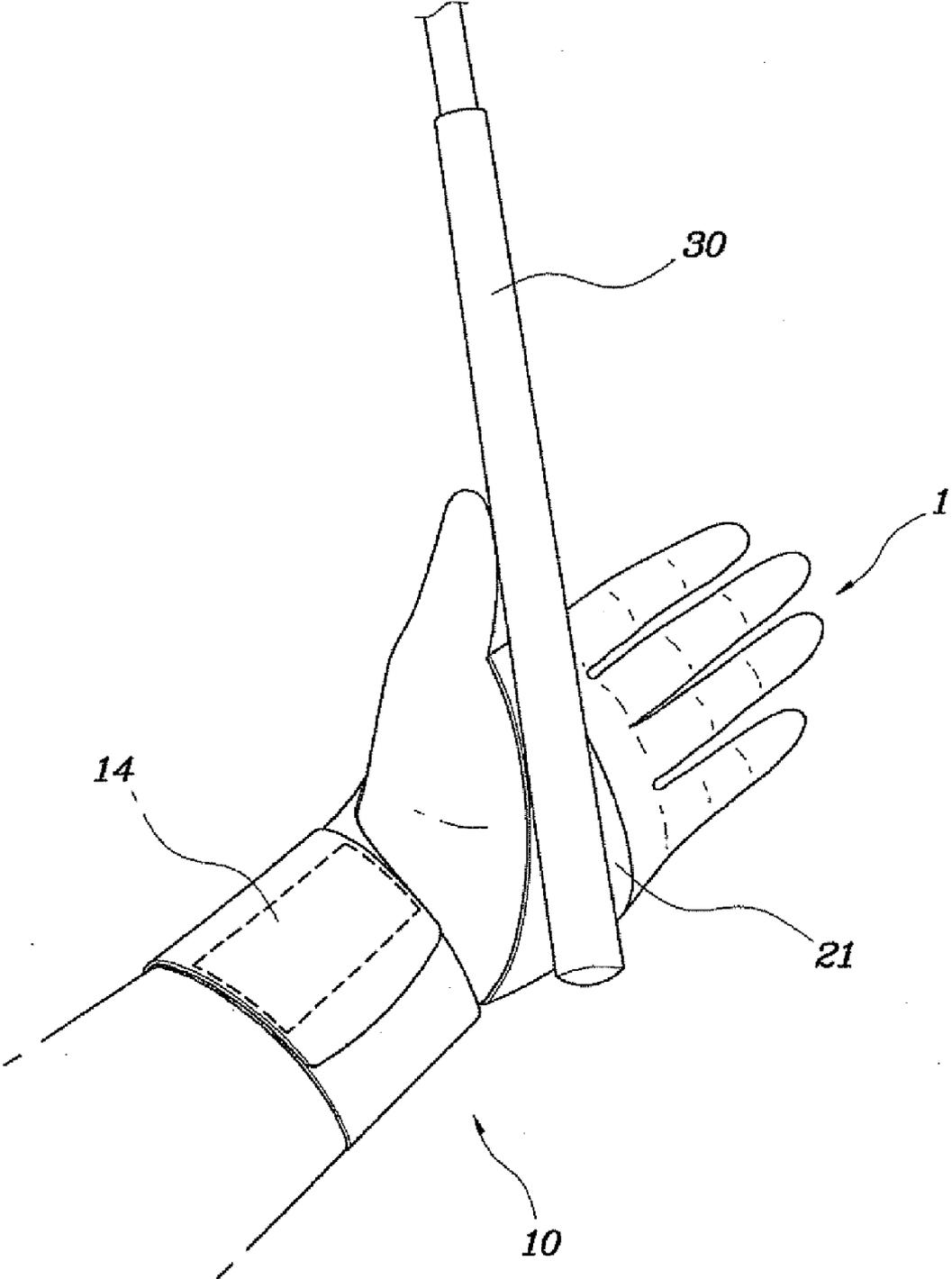


FIG. 7

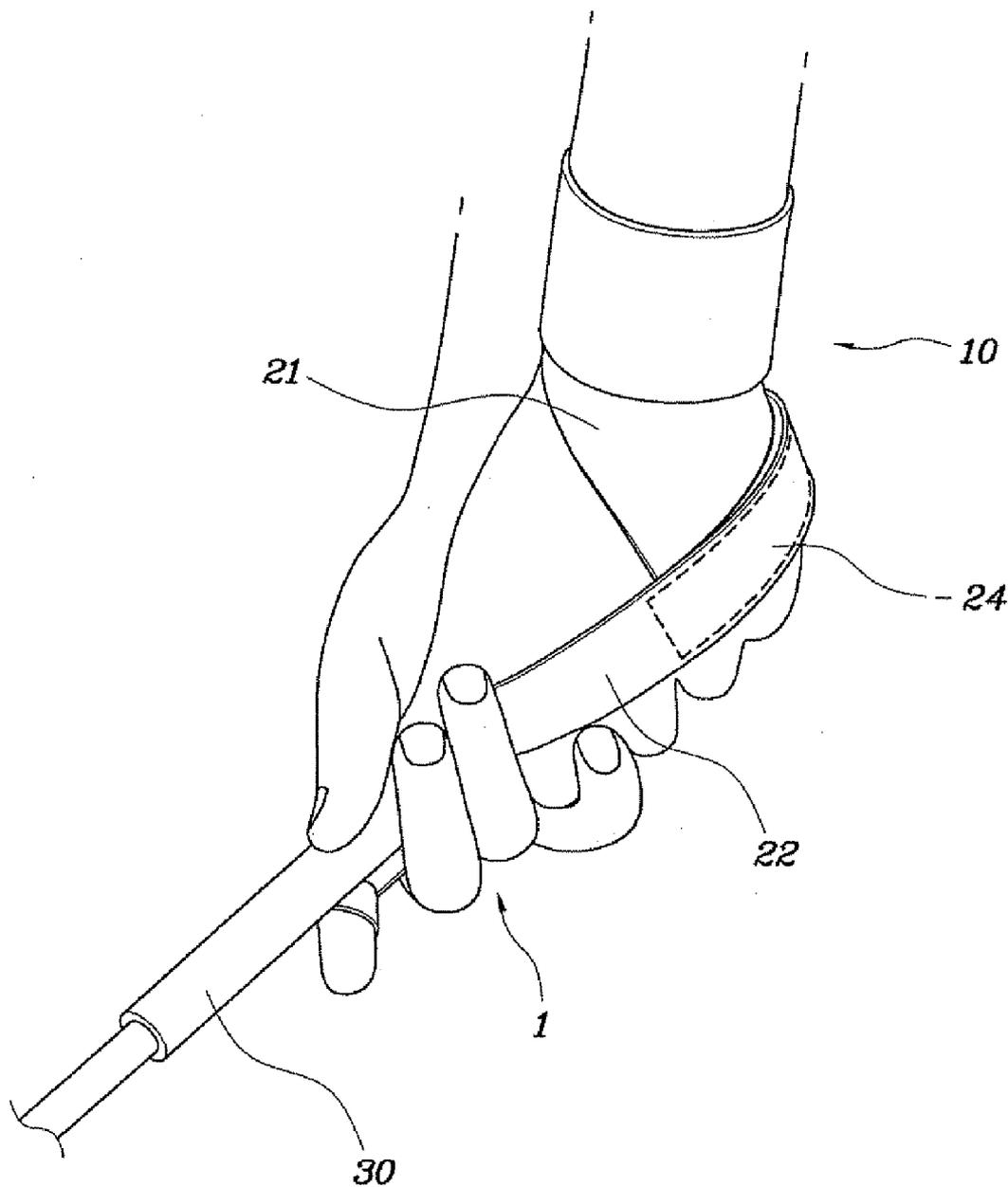


FIG. 8

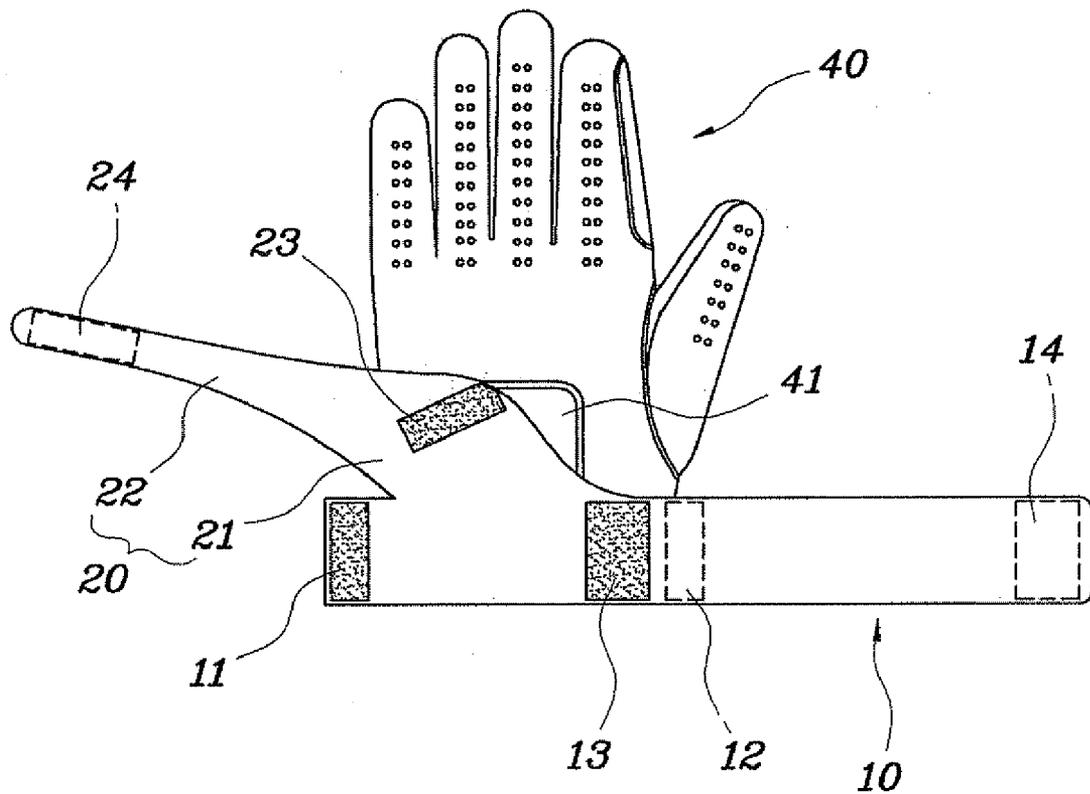


FIG. 9

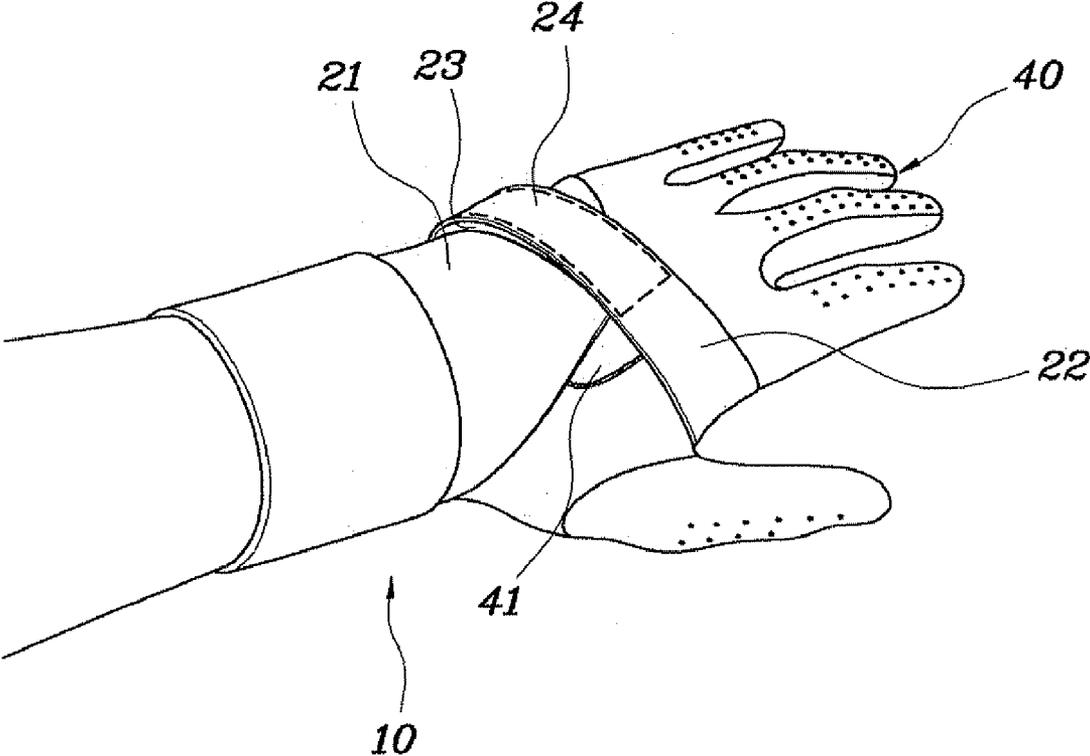


FIG. 10

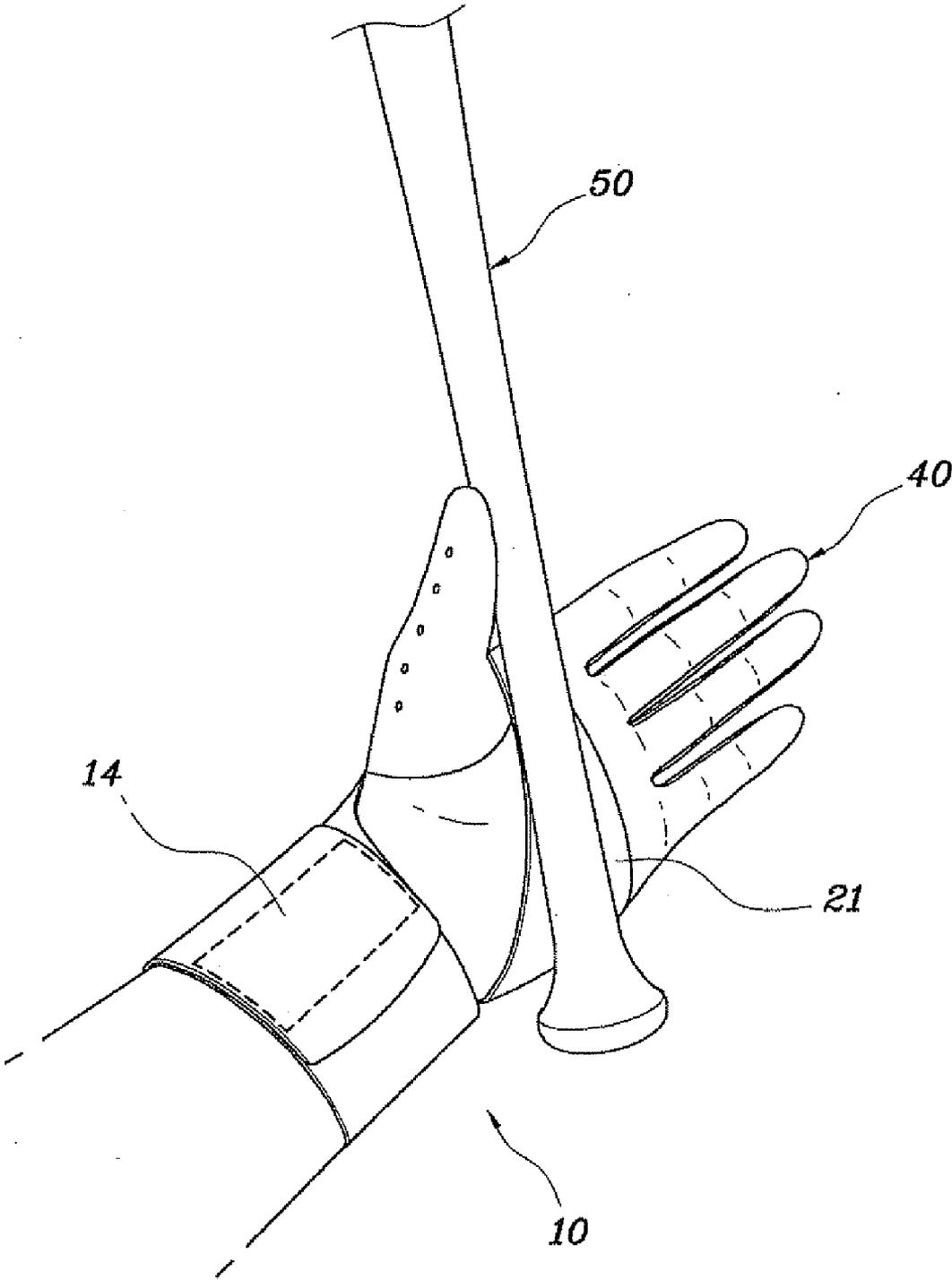
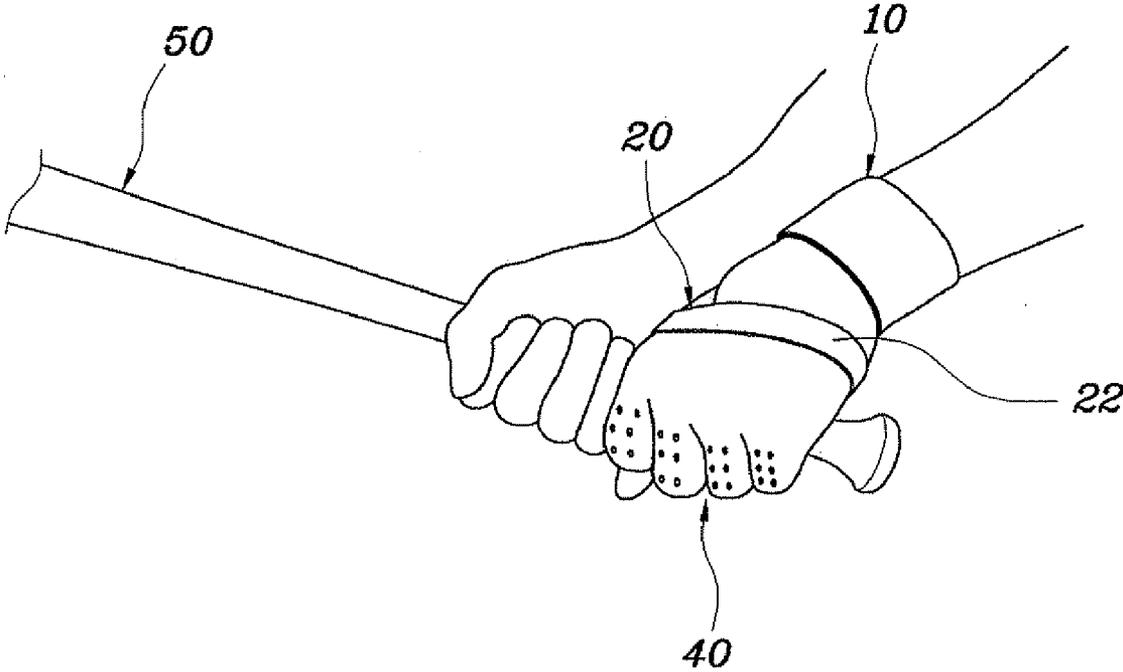


FIG. 11



**SPORTS WRIST BAND**

**TECHNICAL FIELD**

[0001] The present invention relates, in general, to a sports wrist band, and more particularly, to a sports wrist band that can be worn on a bare or gloved hand to increase the gripping force of the hand as well as the frictional force with hand-held sporting goods such as a golf club and a baseball bat, thereby contributing to the improvement of sports performance.

**BACKGROUND ART**

[0002] Sports wrist bands that are currently used are generally for protecting the wrist by putting a cylindrical band of an elastic material around the wrist. This wrist band for protecting the wrist serves to protect the wrist when excessive force is applied to the wrist, or to make good use of a wrist snap when a baseball player throws a ball.

[0003] For the wrist band for protecting the wrist, products having various lengths are on the market, which range from ones designed to be worn only on the wrist to ones designed to be worn up the forearm to a length of 8 or 9 inches. Other products are on the market, which range from cylindrical ones designed to simply be put on the wrist to band-type ones designed to be worn around the wrist so as to be able to adjust the pressing strength of muscle according to a user.

[0004] However, the currently sold wrist band for protecting the wrist is mainly made only for primary function of protecting the wrist, in spite of the various lengths and shapes thereof. For this reason, it is required to develop a sports wrist band capable of exerting multiple functions to contribute to the improvement of sports performance through a scientific design.

**DISCLOSURE**

**Technical Problem**

[0005] Accordingly, the present invention has been made in an effort to solve the problems occurring in the related art, and an object of the present invention is to provide a sports wrist band combining a hand band that functions to increase the gripping force of the hand as well as the frictional force with sporting goods with a wrist band that functions to protect a wrist, thereby contributing to the improvement of sports performance.

**Technical Solution**

[0006] In order to achieve the above object, according to one aspect of the present invention, there is provided a sports wrist band, which includes a wrist band having a length wound at least one turn around the wrist and including pieces of wrist velcro attached at a predetermined position to press and fix the wrist in a state of being wound around the wrist, and a hand band extending from the wrist band, turning around a knife hand portion and wrapping a palm portion contacting sporting goods so as to press the palm portion.

[0007] Further, the hand band includes a pressing portion that extends from one side of the wrist band, is turned around the knife hand portion in a wide width, and covers the palm portion contacting the sporting goods, and a connecting portion that extends from the pressing portion, runs between the thumb and index finger in a narrow width, and is attached again to the pressing portion by pieces of hand pressing velcro.

[0008] Also, the pieces of wrist velcro include pieces of wrist fixing velcro attached at a position where part of the wrist band can be wound one turn around the wrist and be fixed, and pieces of wrist pressing velcro attached at a position where another part of the wrist band can be wound around the wrist to press the wrist and be fixed.

[0009] In addition, a part of the hand band is attached together to a sports glove when the sports wrist band is used.

**DESCRIPTION OF DRAWINGS**

[0010] The above objects, and other features and advantages of the present invention will become more apparent after reading the following detailed description in conjunction with the drawings, in which:

[0011] FIG. 1 illustrates a sports wrist band according to the present invention;

[0012] FIGS. 2 through 5 are perspective views illustrating a procedure of wearing a sports wrist band according to the present invention;

[0013] FIGS. 6 and 7 illustrates a state of using a sports wrist band according to the present invention;

[0014] FIG. 8 is a plan view illustrating a glove-attached type sports wrist band according to the present invention;

[0015] FIG. 9 is a perspective view illustrating a state of wearing a glove-attached type sports wrist band according to the present invention; and

[0016] FIGS. 10 and 11 illustrates a state of using a glove-attached type sports wrist band according to the present invention.

**BEST MODE**

[0017] Reference will now be made in greater detail to a preferred embodiment of the invention, an example of which is illustrated in the accompanying drawings. Wherever possible, the same reference numerals will be used throughout the drawings and the description to refer to the same or like parts.

[0018] FIG. 1 illustrates a sports wrist band according to the present invention, wherein (a) is viewed from above, and (b) is viewed from below.

[0019] The sports wrist band of the present invention is generally composed of a wrist band 10 designed to press and fix a wrist portion, and a hand band 20 designed to press and fix a hand portion. The wrist band 10 fundamentally functions to protect the wrist from excessive force applied to the wrist during a contest, as in the conventional wrist band for protecting the wrist. The hand band 20 functions to increase gripping force by pressing a palm portion grasping sporting goods such as a golf club, a baseball bat, a tennis racket, etc., as well as force of adhesion to sporting goods.

[0020] The wrist band 10 has a length capable of being wound at least one turn around the wrist, and includes pieces of wrist velcro 11, 12, 13 and 14, each of which is attached at a predetermined position so as to press and fix the wound wrist. The wrist band 10 should have a length capable of being fixed by the wrist fixing velcro 11 and 12, to be described below, in a state, in which it is wound at least one turn around the wrist, and preferably a length capable of being wound at least two turns around the wrist so as to be able to press the wrist.

[0021] Currently, the wrist band for protecting the wrist is produced in the form of a band of which the strength of pressing a wrist muscle can be adjusted after being wound one

or more turns around the wrist, rather than in the form of a cylinder of an elastic material that is simply put on the wrist. As such, the present invention reflects this technical trend to manufacture the wrist band **10** so as to be wound at least one turn around the wrist and fix the wrist.

[0022] In this manner, when the length of the wrist band **10** increases, the wrist band **10** can not only increase pressing force against the wrist but also adjust the pressing force when desired by a user. However, the wrist band **10** is inconvenient to wear, compared to the existing cylindrical wrist band. In order to solve this problem, the present invention is adapted to provide two types of wrist velcro **11** and **12**, and **13** and **14** to the wrist band **10**, thereby making it convenient to wear.

[0023] First, a pair of pieces of wrist fixing velcro **11** and **12** is attached at a position where part of the wrist band **10** can be wound one turn around the wrist and be fixed. As an exemplary embodiment of this construction, among the pieces of wrist fixing velcro **11** and **12**, one **11** is attached to one end of the wrist band **10** as in FIG. 1(a), and the other **12** is attached to an intermediate portion of the wrist band **10** and is spaced apart from the wrist fixing velcro **11** by the circumference of the wrist. At this time, the pieces of wrist fixing velcro **11** and **12** are constructed such that they can be attached to top and bottom surfaces of the wrist band **10**, respectively, and thereby interlock each other in the state where the wrist band **10** is wound one turn around the wrist.

[0024] The pieces of wrist fixing velcro **11** and **12** attached in this way fix the wrist band **10** in the state where the wrist band **10** is wound one turn around the wrist, thereby preventing the wrist band **10** from being rolled. Accordingly, the pieces of wrist fixing velcro **11** and **12** make it possible to more conveniently press and fix the wrist band **10** in the next step.

[0025] Next, a pair of pieces of wrist pressing velcro **13** and **14** is attached at the position where part of the wrist band **10** is fixed by the pieces of wrist fixing velcro **11** and **12**, and then the other can be fixed in a state where the other is wound around the wrist so as to press the wrist. As an exemplary embodiment of this construction, among the pieces of wrist pressing velcro **13** and **14**, one **13** is attached to an intermediate portion of the wrist band **10** as in FIG. 1(a), and the other **14** is attached to the other end of the wrist band **10** so as to be spaced apart from the first piece of wrist pressing velcro **13** by the circumference of the wrist.

[0026] Next, the hand band **20**, the most characteristic technical configuration of the present invention, will be described. As described above, the hand band **20** functions to improve the gripping force of the hand and the force of adhesion to sporting goods. The hand band **20** extends from the wrist band **10**, turns around the knife hand portion, and wraps up the palm portion contacting the sporting goods so as to press the palm portion. As long as the hand band **20** is adapted to extend from the wrist band **10** to wrap the palm portion contacting the sporting goods so as to press the palm portion, any hand band **20** falls within the scope of the technical spirit of the present invention. The hand band **20** can be implemented in various concrete embodiments.

[0027] An exemplary embodiment of the hand band **20** is illustrated in FIG. 1. Specifically, the hand band **20** includes a pressing portion **21** that extends from one side of the wrist band **10**, turns around the knife hand portion in a wide width, and covers the palm portion contacting the sporting goods, and a connecting portion **22** that extends from the pressing portion **21**, runs between the thumb and the index finger in a

narrow width, and is attached again to the pressing portion **21** by hand pressing velcro **23** and **24**.

[0028] The pressing portion **21** is strongly and closely contacted with the palm portion contacting the sporting goods, thereby increasing the force of friction with the sporting goods. Further, the pressing portion **21** turns around the knife hand portion, thereby strongly pressing the knife hand portion where the area contacting the sporting goods is widest to increase the gripping force of the hand.

[0029] The connecting portion **22** is preferably made in the form of a relatively narrow band so as to run between the thumb and the index finger in a narrow width. The pieces of hand pressing velcro **23** and **24** are attached to the top surface of the pressing portion **21** and the bottom surface of the free end of the connecting portion **22** respectively so as to interlock each other after the hand band **20** is wound one turn around the palm. The user pulls the connecting portion **22**, and then adjusts the fixed strength using the hand pressing velcro **23** and **24**, thereby freely adjusting the pressing force of the hand band **20**.

[0030] Now, the method of using the sports wrist band constructed in this way according to the present invention will be described. FIGS. 2, 3, 4 and 5 illustrate the procedure of wearing the sports wrist band according to the present invention in turn. When a user intends to wear the sports wrist band on the left hand **1**, part of the wrist band **10** is wound one turn around the wrist **2**, and then the pieces of wrist fixing velcro **11** and **12** are interlocked with each other to fix the wrist band **10** (see FIG. 2). Then, the user grasps one end of the wrist band **10**, winds the wrist band **10** around the wrist **2** again so as to allow the wrist band **10** to be pressed on the wrist **2**, and then the pieces of wrist pressing velcro **13** and **14** are interlocked with each other. Thereby, the wearing of the wrist band **10** is completed (see FIG. 3).

[0031] Afterwards, the user grasps the free end of the connecting portion **22** of the hand band **20**, winds the hand band **20** toward the inner knife hand portion **3**, and passes the hand band **20** between the thumb **4** and the index finger **5**, thereby pressing the pressing portion **21** onto the palm portion. In this state, the pieces of hand pressing velcro **23** and **24** are interlocked with each other (see FIGS. 4 and 5). At this time, the pressing force caused by the pressing portion **21** can be adjusted depending on how strongly the hand band **20** is wound.

[0032] FIGS. 6 and 7 illustrate a posture of gripping a golf club in a state where the sports wrist band of the present invention is worn on the left hand. The user wears the sports wrist band on the left hand, grips the grip of the golf club **30** so as to locate the grip of the golf club **30** on the pressing portion **21** of the hand band **20**, and then firmly holds the left hand with the right hand. At this time, the left hand is strongly pressed by the sports wrist band, and thus the gripping force of the left hand is increased. Further, the grip of the golf club **30** is placed on the pressing portion **21**, and thus the frictional force is also increased. As a result, the impact strength and precision are improved when a golf club is swung.

[0033] As described above, when used, the sports wrist band of the present invention can be directly put on a bare hand, as well as be attached to a sports glove. The sports wrist band can be applied to all types of sports gloves for golf, baseball, tennis, and so on. FIG. 8 illustrates one embodiment of the application. Part of the hand band **20** of the sports wrist band is attached to a sports glove **40**.

[0034] At this time, the sports wrist band can be sold as a set where the part of the hand band 20 is integrally attached to the sports glove 40, or can be removably attached to the sports glove 40 so as to be used only when necessary. The reference numerals for the sports wrist band and description thereof in FIG. 8 are equal to those in FIG. 1.

[0035] FIG. 9 illustrates the state of wearing a glove-attached type sports wrist band. First, the user wear the sports glove 40, and fastens a piece of glove velcro 41 to the left hand. Then, the wrist band 10 of the sports wrist band is wound around the wrist portion and is firmly fixed. The connecting portion 22 of the hand band 20 is grasped, and then the pressing portion 21 is wound toward the inner knife hand portion until it is pressed onto the palm. In this state, the pieces of hand pressing velcro 23 and 24 are interlocked with each other.

[0036] FIGS. 10 and 11 illustrate a posture of gripping a baseball bat 50 in the state where the sports wrist band of the present invention is worn on the left hand. The user wears the sports wrist band on the left hand, grips the grip of the baseball bat 50 so as to locate the grip of the baseball bat 50 on the pressing portion 21 of the hand band 20, and then holds the front of the left hand with the right hand. At this time, the left hand is strongly pressed by the sports wrist band, and thus the gripping force of the left hand and the frictional force of the sports wrist band are increased. As a result, the impact strength and precision of the baseball bat are improved.

[0037] Although only the sports wrist band for the left hand is illustrated in FIGS. 1 through 11, the present invention is not limited to the left-handed sports wrist band, but can be naturally applied to a sports wrist band for the right hand.

[0038] In the drawings and specification, typical preferred embodiments of the invention have been disclosed, and although specific terms are employed, they are used in a generic and descriptive sense only and are not for the purposes of limitation, the scope of the invention being set forth in the following claims.

INDUSTRIAL APPLICABILITY

[0039] As described above, the sports wrist band of the present invention adds a function of increasing the gripping force of the hand and the frictional force with sporting goods

to a wrist protecting function provided by a conventional sports wrist band, so that it can greatly contribute to the protection of the human body as well as the improvement of sports performance.

- 1. A sports wrist band comprising:
  - a wrist band having a length adapted to be wound at least one turn around a wrist, and including a first and second set of corresponding wrist velcro pieces attached at a predetermined position on the wrist band so as to be pressed and fixed against each other such that the wrist band is wound around the wrist; and
  - a hand band extending from the wrist band, and adapted to turn around a knife hand portion, and adapted to wrap over a palm portion for contacting sporting goods so as to be pressed against the palm portion.
- 2. The sports wrist band as set forth in claim 1, wherein the hand band includes a pressing portion that extends from one side of the wrist band, turns around the knife hand portion, and covers the palm portion contacting the sporting goods, and a connecting portion that extends from the pressing portion, is adapted to run between a thumb and an index finger, and is attachable to the pressing portion via corresponding hand pressing velcro pieces, wherein a portion of the pressing portion situated near the knife hand portion is wider than a portion of the connecting portion situated between the thumb and index finger.
- 3. The sports wrist band as set forth in claim 1, wherein the first set of corresponding wrist velcro pieces are attached at a position on the wrist band where part of the wrist band is adapted to be wound one turn around the wrist and be fixed, and the second set of corresponding wrist velcro pieces are attached at a position on the wrist band where another part of the wrist band can be wound around the wrist so as to press against the wrist and be fixed.
- 4. The sports wrist band as set forth in claim 1, wherein a part of the hand band is integral with a sports glove.
- 5. The sports wrist band as set forth in claim 3, wherein a part of the hand band is removably attached to a sports glove.
- 6. The sports wrist band as set forth in claim 2, wherein a part of the hand band is integral with a sports glove.

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