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(54) **GOLF CLUB GRIP**

is a continuation-in-part of application No. 29/196,500, filed on Dec. 29, 2003, now Pat. No. D,502,750.

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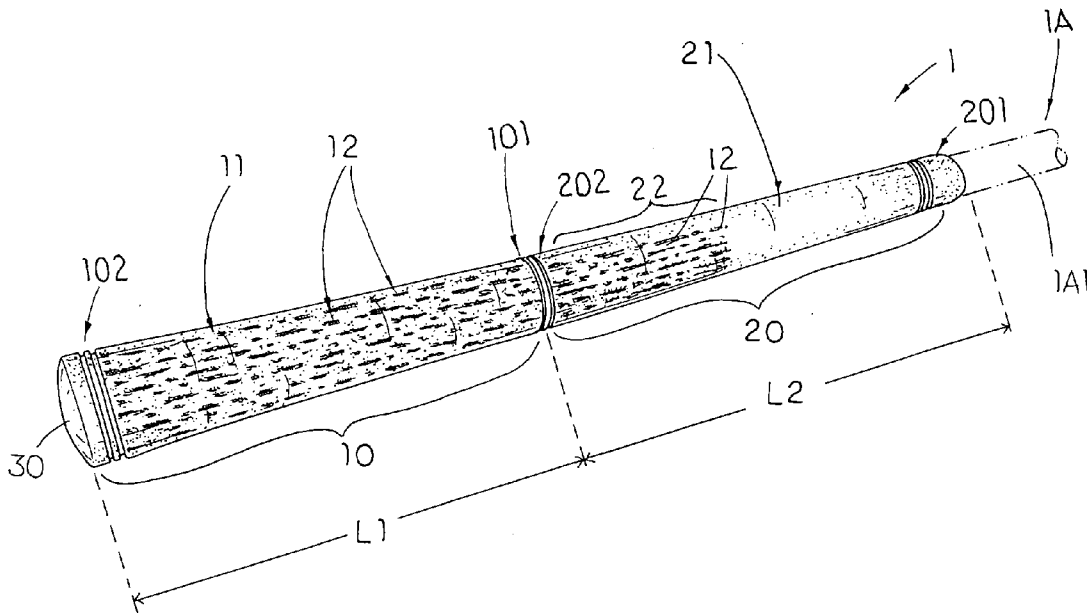
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(57) **ABSTRACT**
A golf club grip includes a first member adapted for coaxially attaching along an end portion of the golf club and a second member coaxially and downwardly extended from the first member for coaxially mounting along the golf club. The first and second members have different natures to provide two different properties. Therefore, the golfer is able to tailor make the golf club grip depending on the personal preference and need by selecting the fabric textile, color, hardness and viscosity of each of the first and second members of the golf club grip.

Related U.S. Application Data

(63) Continuation-in-part of application No. 11/192,775, filed on Jul. 29, 2005, now Pat. No. 7,160,202.
Continuation-in-part of application No. 10/771,710, filed on Feb. 3, 2004, now Pat. No. 7,008,582, which



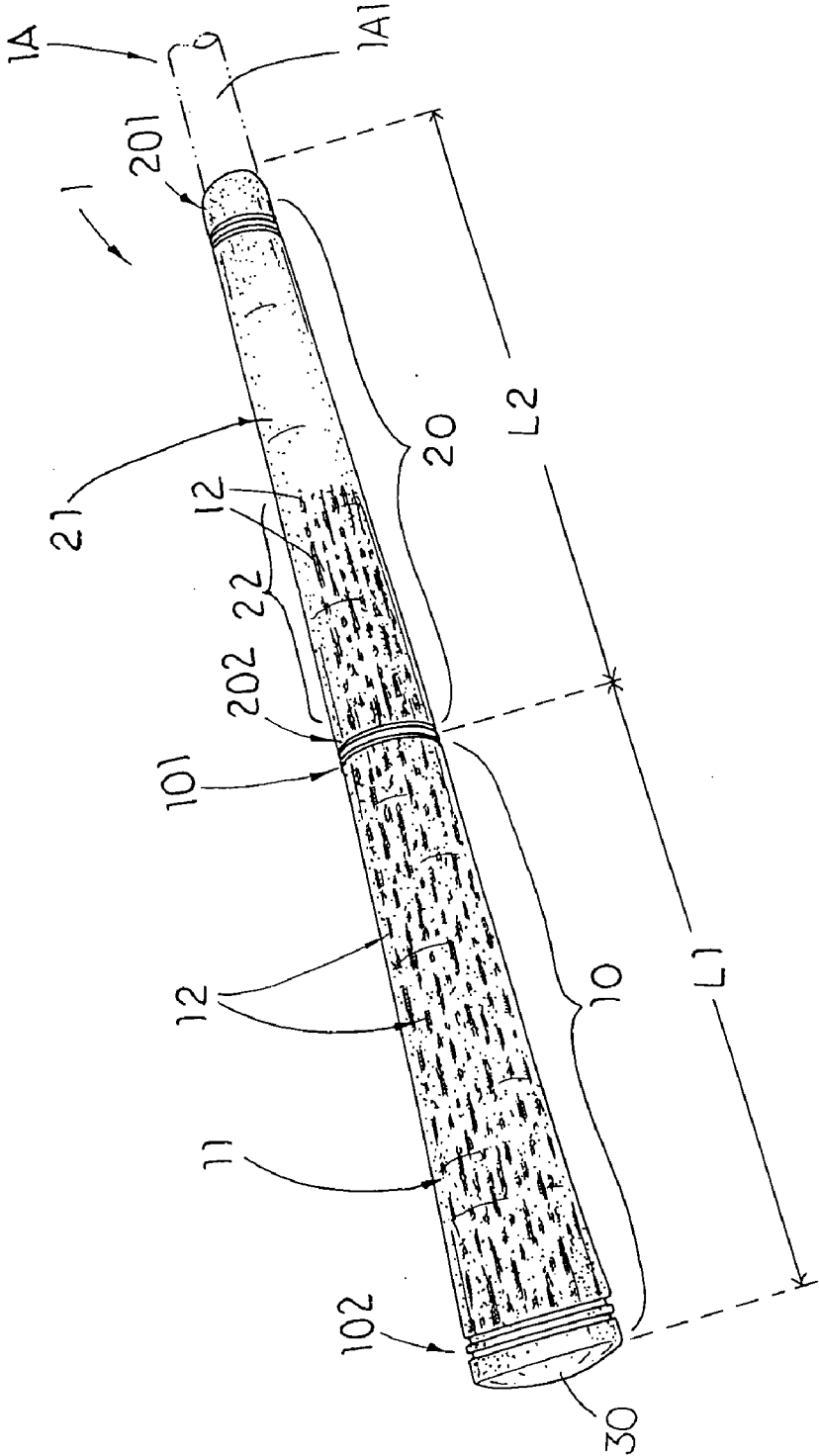


FIG. 1

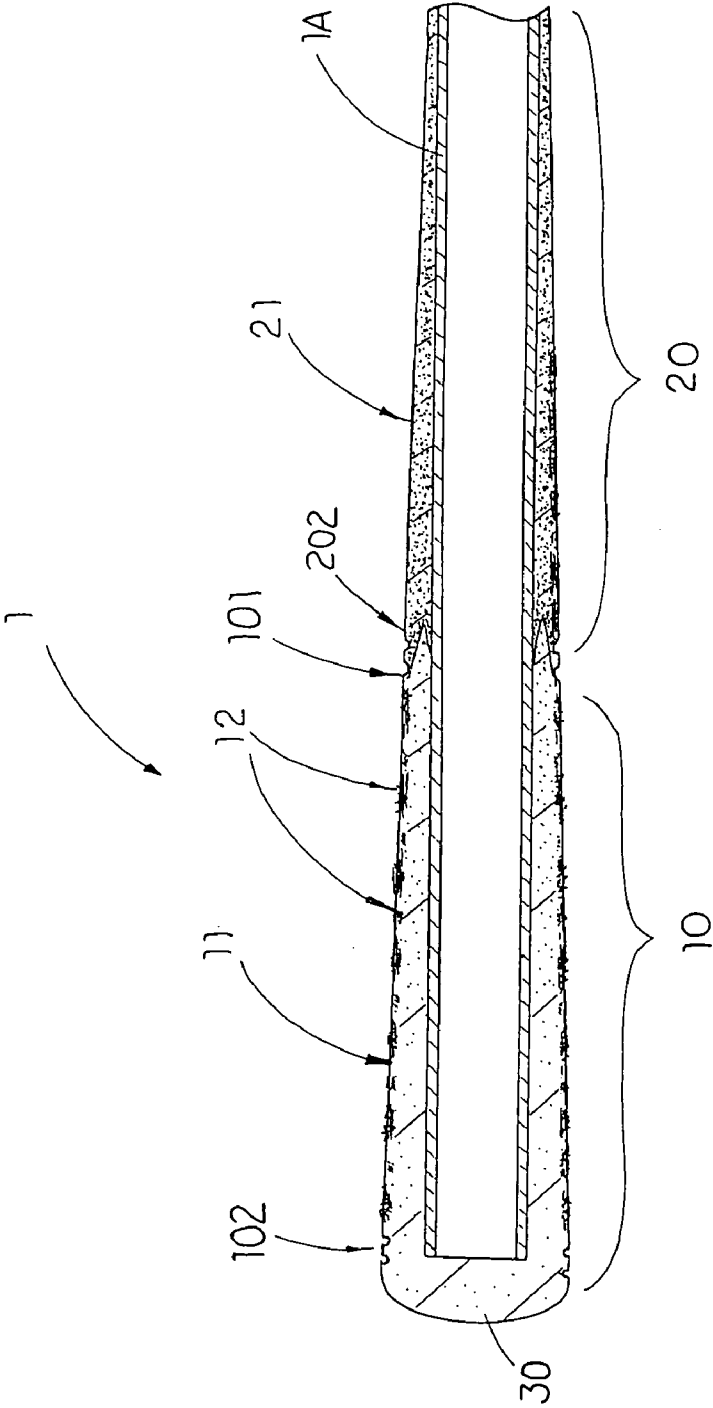


FIG. 2

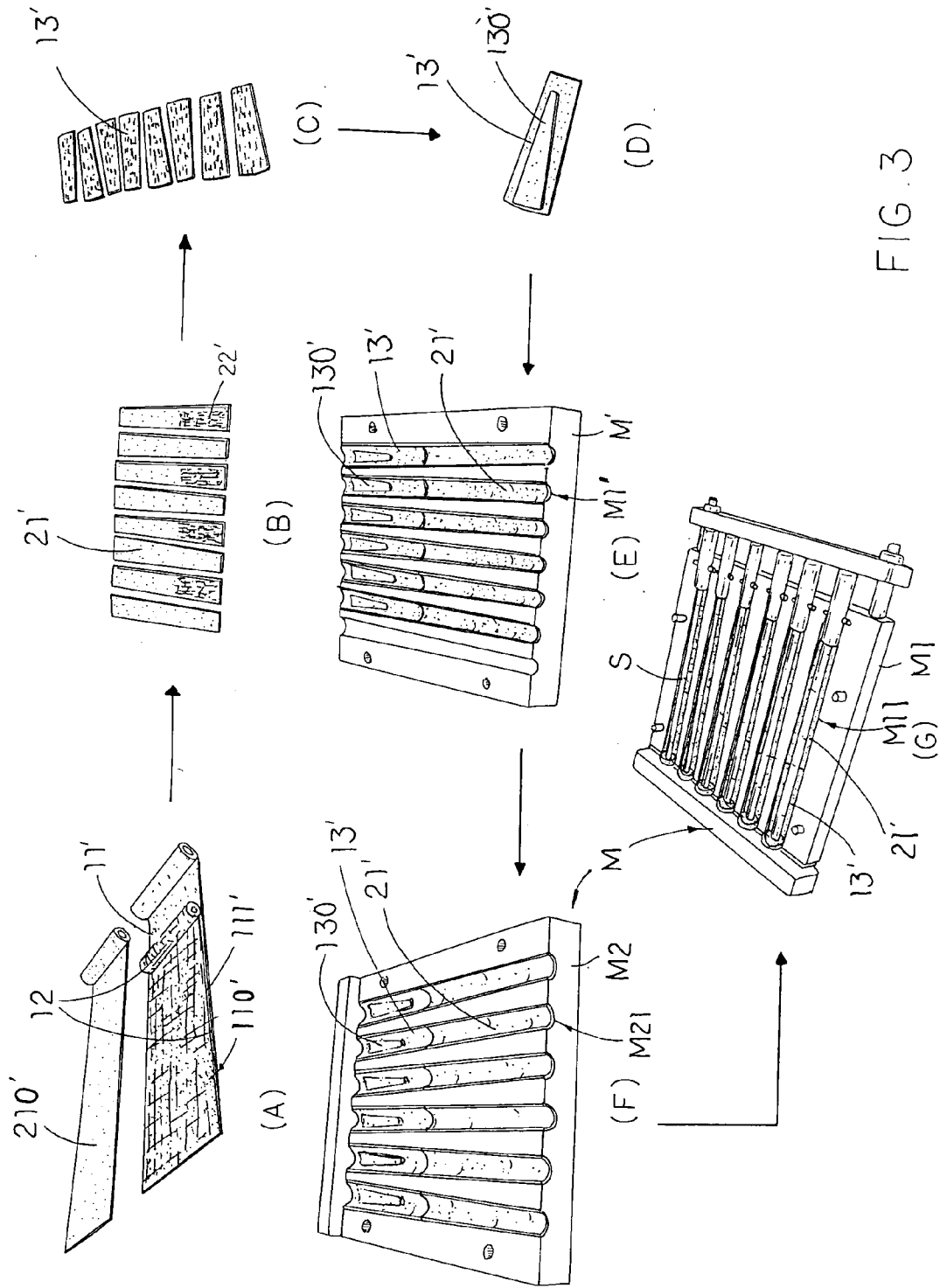


FIG. 3

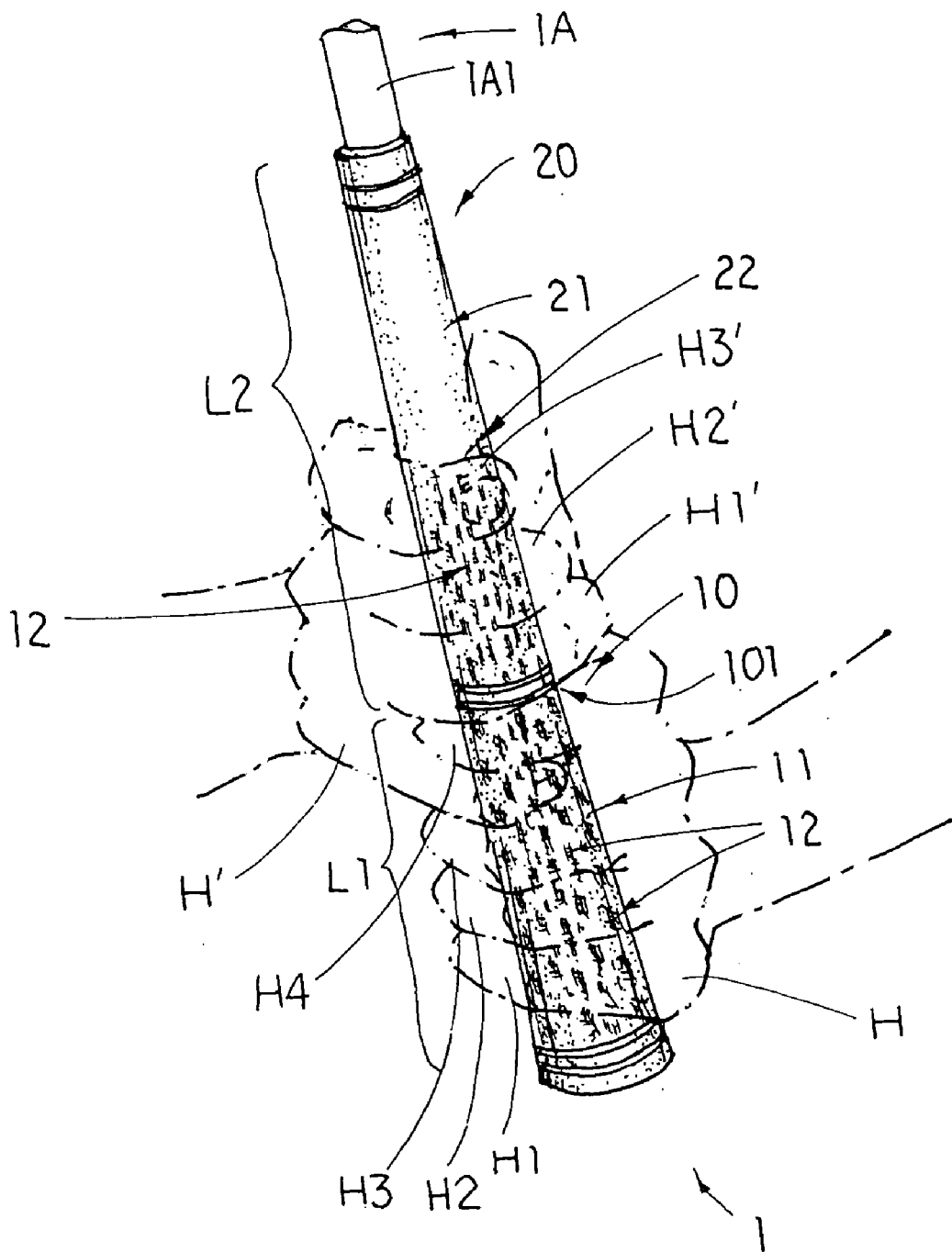


FIG. 4

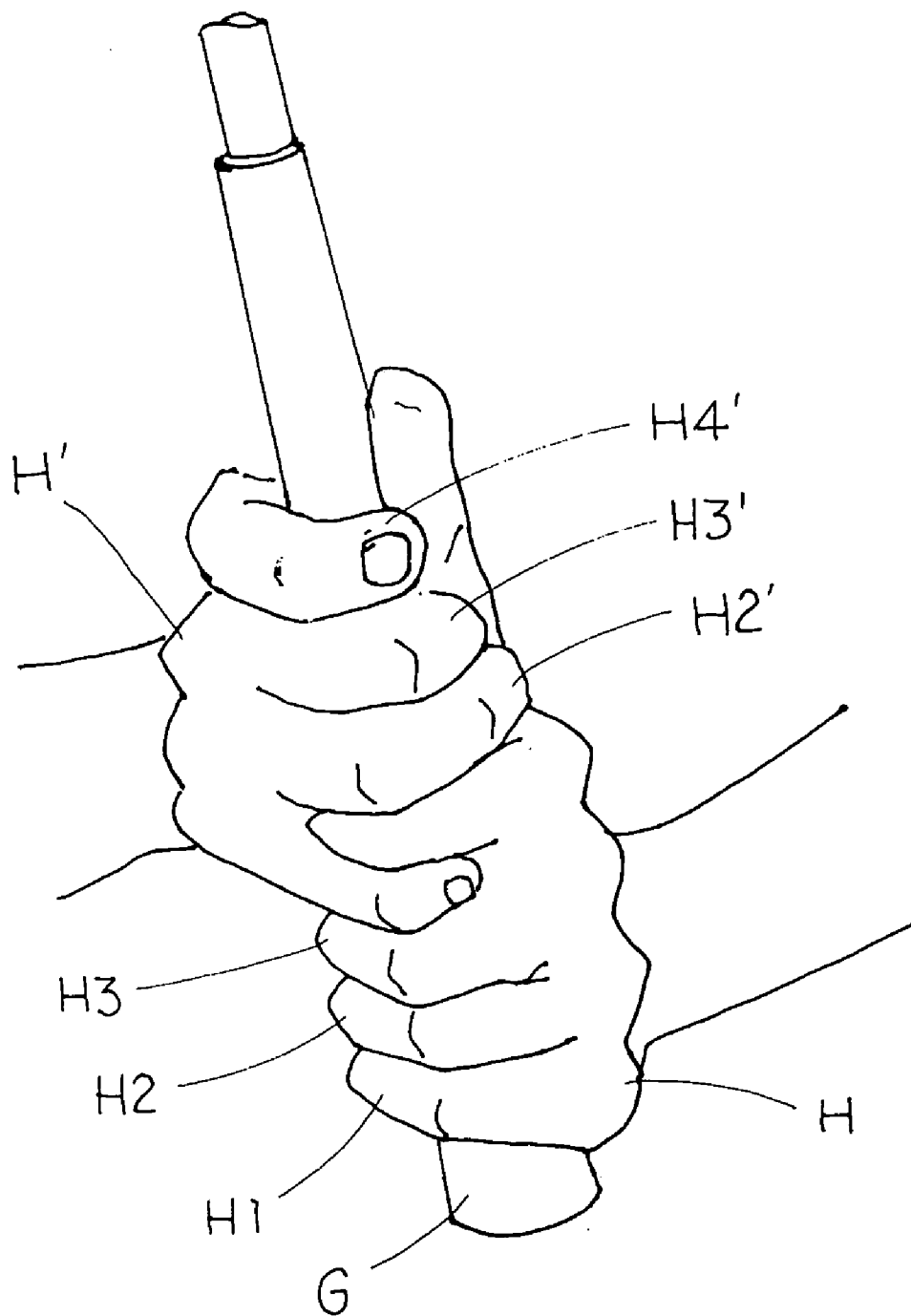


FIG. 5

PRIOR ART

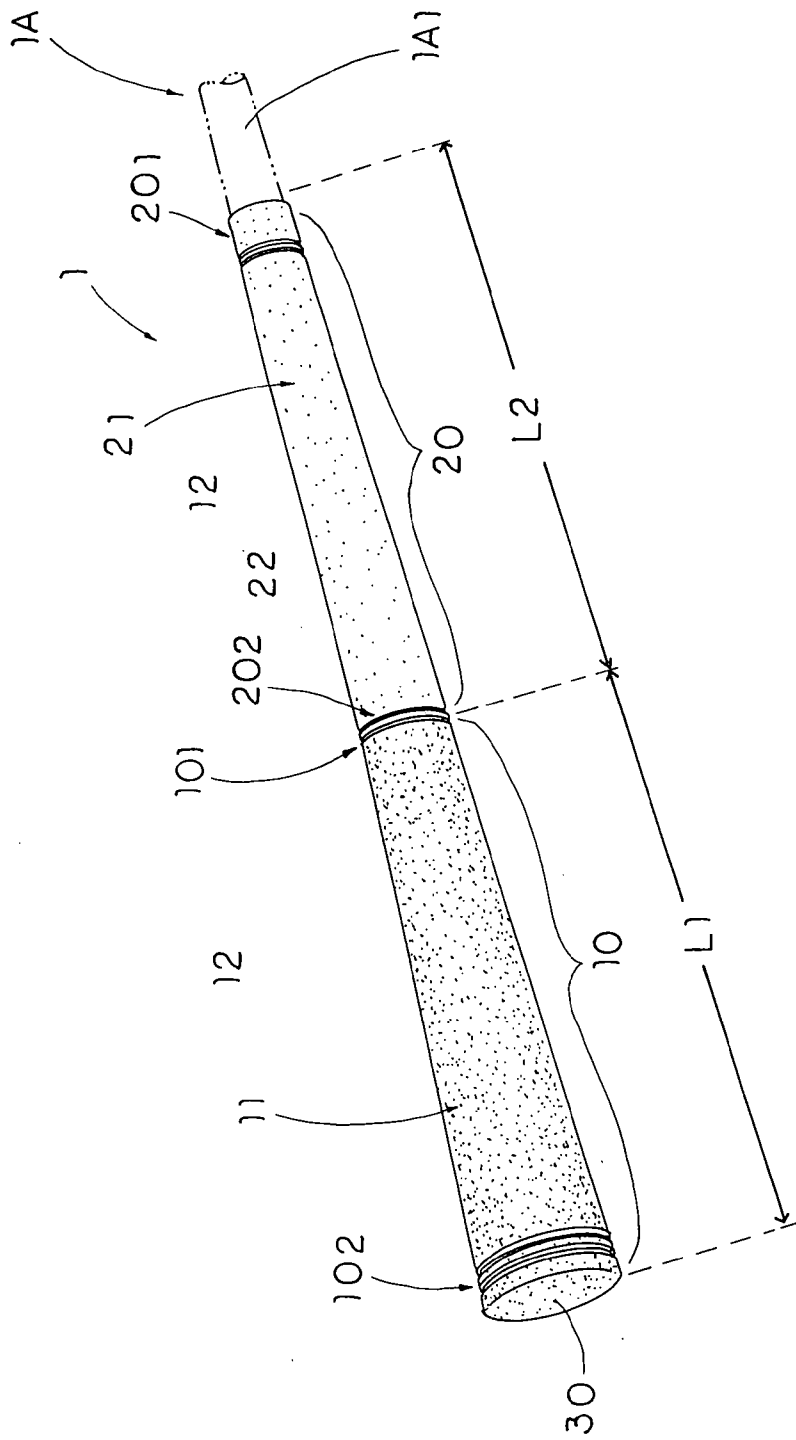


FIG. 6

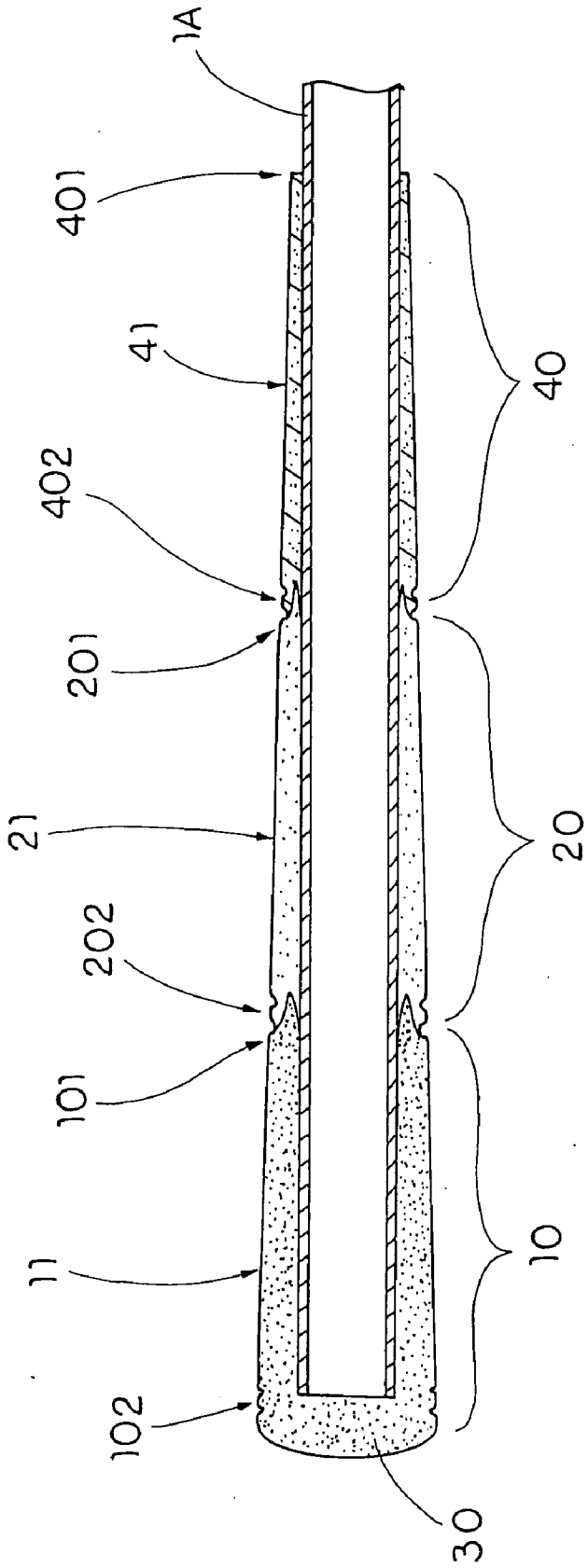


FIG. 7

GOLF CLUB GRIP

CROSS REFERENCE OF RELATED APPLICATION

[0001] This is a Continuation-In-Part application of a non-provisional application, application Ser. No. 11/192,775 filed on Jul. 29, 2005 and a non-provisional application, application Ser. No. 10/771,710 filed on Feb. 03, 2004, which is a Continuation-In-Part application of a non-provisional application, application Ser. No. 29/196,500 filed on Dec. 29, 2003.

BACKGROUND OF THE PRESENT INVENTION

[0002] 1. Field of Invention

[0003] The preset invention relates to a golf accessory, and more particularly to a golf club grip having at least two integrated portions with different natures to form a tapered tubular body for attaching to a holding end portion of a shaft of a golf club.

[0004] 2. Description of Related Arts

[0005] Golf is one of the most popular sports in the world. All lower handicapped golfers recognize that the main key of having a good golf swing mostly depends on whether the golfer correctly grips the golf club.

[0006] No matter a golfer uses an interlocking grip, a natural grip or an overlapping grip, a proper grip is one of the most important fundamental. If the golfer grips his or her golf club too tight, his or her arms will be too tense to release the body twisting power to maximize the club head speed at impact of the golf ball through a golf swing. On the other hand, if the golfer grips his or her golf club too loose, the golf club may slip out of his or her hands through the golf swing. Also, the power from the uncoiling body will fail to transmit to the golf club through the golfer's hands. The flying trajectory, such as straight, draw or fade, of the golf ball can also be controlled by the gripping hands of the golfer.

[0007] The term "grip" is misleading since it implies a forceful pressure. In fact, a more proper way is to "mold" the golfer's hands into the proper position, and then to hold the golf club with the proper amount of pressure that allows the hands to work together to control the club head. For a right-hand golfer, his or her left hand will be the upper holding hand and his or her right hand will be the lower controlling hand. For a left-hand golfer, the right hand will be the upper holding hand and the left hand will be the lower controlling hand.

[0008] The middle finger H1, ring finger H2 and little finger H3 of the upper holding hand H, i.e. the left hand of a right-hand golfer, are used to hold on the upper end portion of the grip G of a golf club, as shown in FIG. 5. The three holding fingers H1, H2 and H3 should apply an appropriate pressure to the grip G that is enough to support and hold the golf club through the grip G. In other words, the golfer should be capable of holding the golf club at the upper end portion of the grip G without the other hand and the thumb and index finger contacting the grip G. By means of the three holding fingers H1, H2 and H3 with appropriate pressure applied to the grip, the arm of the golfer should become an

extension of the golf club hinged to the golfer's body with his or her shoulder. The appropriate holding pressure of the three holding fingers H1, H2, H3 applied to the grip G varies with the weight and length of the golf club as well as the nature of the grip G. The minimum holding pressure should be just enough to hold the golf club to prevent slipping off the hand through the golf swing. Then, the index finger and the thumb of the upper holding hand H should be simply placed on the grip G in position as shown in FIG. 5.

[0009] Then, simply place the lower controlling hand H' on a middle portion of the grip G in such a manner that the ring finger H2', the middle finger H3' and the index finger H4' are placed on the grip G and aligned with the middle finger H3 of the upper holding hand H while the little finger H1' of the controlling hand H' is overlapped on top of the middle finger H3 of the holding hand H for an overlapping grip, or the little finger H1' of the controlling hand H' is interlocked with the middle finger H3 of the holding hand H for an interlocking grip. Also, the index finger and the thumb of the upper holding hand H should be simply placed on the grip in position as shown in FIG. 5 while the center of the palm of the controlling hand H' is facing the target. The grip pressure of the controlling hand H' is applied at the contacts of the middle phalanges H21', H31' of the ring finger H2' and the middle finger H3' of the controlling hand H' with the grip G.

[0010] In fact, by varying a few pressure points, you can better shape your shots. For example, in order to hit a fade, the golfer can grip the golf club a little bit tighter with the little finger H1, the ring finger H2 and the middle finger H3 of the holding hand H. Also, when more pressure is exerted by the thumb and index finger of the controlling hand H' of the golfer, a right-to-left trajectory will be resulted.

[0011] In addition, the golfer can control the ball flying trajectory between a hook to a slice simply by adjusting the gripping position of the controlling hand H' with respect to the gripping position of the holding hand H, such as a strong grip or a weak grip. The grip pressure of the controlling hand H' is for feeling and controlling but not for supporting and holding the golf club. Therefore, the grip pressure of the controlling hand H' should be merely tight enough to control the club but still light enough to allow you to feel the weight of the golf club throughout the swing.

[0012] It is why most of the golfers wear gloves with their holding hands to enhance frictional contact with the grip but keeping their controlling hands bare to ensure feeling for swing control.

[0013] No matter whether the golfer grips the golf club somewhat firmly or softly, what is really important is keeping your level of grip pressure constant throughout the swing. Therefore, the nature and surface condition of the grip can substantially affect the golfer to apply the appropriate grip pressure. Some golf club grips provide anti-slip design on the grip surface for better frictional contact with the golfer's hands, it can substantially help to prevent slipping and provide constant grip pressure throughout the swing for the holding hand but may adversely affect the control and feeling of the controlling hand. Some golf club grips provide smooth and soft grip surface for better controlling but it also invites the holding hand to grip tighter to prevent slipping off. However, any excess grip pressure through the hand may also tense the arm and shoulder

muscles and unexpectedly affect the golf swing. How to produce a grip that fits to the different needs of the holding hand and controlling hand of a golfer becomes a challenge for the development of a better club.

SUMMARY OF THE PRESENT INVENTION

[0014] A main object of the present invention is to provide a golf club grip which has at least two integrated portions with different natures to form a tapered tubular body for attaching to a holding end portion of a shaft of a golf club. Therefore, the golfer is able to tailor make the golf club grip depending on the personal preference and need by selecting the fabric textile, color, hardness and viscosity of each of the first and second members of the golf club grip.

[0015] Another object of the present invention is to provide a golf club grip, wherein the two portions of the golf grip are made of rubber in different colors for purposes of decoration and identification of the two portions for proper gripping with the holding and controlling hands of the golfer.

[0016] Another object of the present invention is to provide a golf club grip, wherein two portions of the golf grip are made of rubber in different hardness for purposes of identification of the two portions for proper gripping with the holding and controlling hands of the golfer.

[0017] Another object of the present invention is to provide a golf club grip, two portions of the golf grip are made of rubber with different compositions for purposes of identification of the two portions for proper gripping with the holding and controlling hands of the golfer.

[0018] Another object of the present invention is to provide a golf club grip, two portions of the golf grip are made of rubber with different viscosity for purposes of identification of the two portions for proper gripping with the holding and controlling hands of the golfer.

[0019] Another objective of the present invention is to provide a golf club grip which comprises a first portion forming an upper anti-slip arrangement and a second portion forming a lower control arrangement, wherein the upper anti-slip arrangement is connected coaxially with the lower control arrangement to form a tubular body for attaching to a holding end portion of a shaft of a golf club. The anti-slip arrangement provides a frictional surface to enable the three holding fingers (i.e. the middle, ring and little fingers) of a gloved holding hand of the golfer to better holding the golf club with appropriate pressure and the control arrangement provides a smoother surface to ensure better feeling and control for the bared controlling hand of the golfer.

[0020] Another objective of the present invention is to provide a golf club grip, wherein the anti-slip arrangement further comprises a cotton yarn reinforced surface layer to provide a coarse surface for better frictional contact with the gloved holding hand of the golfer and a harder surface structure than the control arrangement to ensure an anti-slipping grip with appropriate pressure while the control arrangement still provide a softer and smoother feel for controlling grip of the bared controlling hand of the golfer.

[0021] Another objective of the present invention is to provide a golf club grip, wherein the anti-slip arrangement of the grip has a length long enough for the three holding

fingers (the middle, ring and little fingers) and the index finger of the upper holding hand of the golfer to completely grip thereon normally while the index finger is just placed at the lower end of the anti-slip arrangement, so that the ring, middle and index fingers of the controlling hand can naturally place on the control arrangement of the grip and align immediately with the index finger of the holding hand.

[0022] Another objective of the present invention is to provide a golf club grip, wherein the anti-slip arrangement at an upper portion of the grip and the control arrangement at a lower portion of the grip are made of rubber in different colors for purposes of decoration and identification of the two portions for proper gripping with the holding and controlling hands of the golfer.

[0023] Another objective of the present invention is to provide a golf club grip, wherein an upper portion of a bottom side of the control arrangement is provided with an anti-slip surface structure which is sized and shaped to ensure the middle phalanges of the ring, middle and index fingers of the lower controlling hand are in contact therewith to provide a better frictional contact for some golfers.

[0024] Another objective of the present invention is to provide a method for manufacturing the golf club grip with two integrated portions in economic cost, wherein the manufacturing process is easy and simple that the golfer is able to tailor make the golf club grip to fit the personal need in lower cost so as to ensure a comfortable interlocking, natural or overlapping grip between the holding hand and the controlling hand of the golfer.

[0025] Another objective of the present invention is to provide a method for manufacturing the golf club grip with anti-slip and control arrangement in economic cost, in which the cotton yarn surface reinforced anti-slip arrangement is integrated with the control arrangement to form an integral body with an even thickness at the junction between the lower end of the anti-slip arrangement and the upper end of the control arrangement so as to ensure a comfortable interlocking, natural or overlapping grip between the holding hand and the controlling hand of the golfer.

[0026] Accordingly, in order to accomplish the above objects, the present invention provides a golf club grip for a golf club comprising a shaft and a club head attached to a lower end of the shaft, wherein the golf club grip comprises:

[0027] a first member which is rubber made tube having a lower end, an upper end and a gripping surface defining between the upper end and the lower end;

[0028] a second member which is rubber made tube having an upper end and a lower end coaxially integrated with the upper end of the first member to form an elongated integral tubular body for attaching to an upper end portion of the shaft of the golf club, wherein the first and second members have different natures to provide two different tones of the golf club grip; and

[0029] a rubber made endpiece integrally formed at the upper end of the second member.

[0030] Accordingly, the first member can be a lower control arrangement which is a rubber made tube having a lower end, an upper end and a gripping surface having a softness adapted for enhancing a sense of touching feel for a controlling hand of the golfer to grip thereon.

[0031] The second member can be an upper anti-slip arrangement which is a rubber made tube having an upper end and a lower end coaxially integrated with the upper end of the control arrangement to form an elongated integral tubular body for attaching to an upper end portion of the shaft of the golf club, wherein the anti-slip arrangement provides an outer anti-slipping surface to provide a predetermined gripping friction for a holding hand of the golfer to grip thereon, wherein the anti-slip arrangement has a length at least long enough for at least a middle finger, a ring finger and a little finger of the holding hand of the golfer to be completely gripped thereon, so that a ring finger, a middle finger and an index finger of the controlling hand of the golfer is capable of naturally placing on the control arrangement.

[0032] In a preferred embodiment, the anti-slip surface of the anti-slip arrangement is integrally coated with a thin reinforced rubber layer laminated with cotton yarn to provide a frictional coarse surface as the outer anti-slipping surface for frictional contact with the golfer's holding hand and to limit and control the elasticity of the rubber material to produce a reinforced harder surface for better holding feel of the holding hand of the golfer.

[0033] In a preferred embodiment, an upper portion of a bottom side of the control arrangement is provided with an anti-slip surface integrally coated with a thin reinforced rubber layer laminated with cotton yarn which is sized and shaped to ensure the middle phalanges of the ring, middle and index fingers of the lower controlling hand are in contact therewith to provide a better frictional contact for some golfers.

[0034] In a preferred embodiment, the anti-slip arrangement is long enough to enable an index finger of the holding hand of the golfer placing at the lower end thereof and the ring finger of the controlling hand can be aligned with the index finger of the holding hand.

[0035] In a preferred embodiment, the first member is made of non-fiber material provided thereon for enhancing a sense of touching feel for a controlling hand of the golfer to grip on the first member. The second member comprises a textile fabric provided thereon to enhance the gripping friction of the second member for the holding hand of the golfer to grip on the second member. Alternatively, the first and second members have different colors to form to two-tone golf club grip so as to enhance the aesthetic appearance thereof and to guide the golfer to grip the golf club. Thus, the first and second members have different hardness to enhance the feeling of the golf club grip for the golfer to control the golf club. In addition, the first and second members have different viscosities to enhance the gripping friction of the golf club grip for the golfer to control the golf club.

[0036] The present invention further provides a method of manufacturing a golf club grip as described above, comprising the steps of:

[0037] (a) overlapping a cotton yarn or the like on an exterior surface of a first raw rubber layer and painting a rubber latex on the cotton yarn to attach the cotton yard on the exterior surface of the first raw rubber layer to form a thin reinforced rubber layer laminated with the cotton yarn;

[0038] (b) preparing a second raw rubber layer which is shaped and sized to form at least a pair of control members;

[0039] (c) shaping the first raw rubber layer that is coated with the cotton yarn laminated rubber layer to form at least pair of anti-slip members;

[0040] (d) aligning the pair of anti-slip members with the pair of control members in an end to end manner in two halves of heat mold respectively; and

[0041] (e) vulcanizing the pair of anti-slip members and the pair of control members in the heat mold to form a golf club grip which is a tubular body including a tubular anti-slip arrangement and a control arrangement coaxially extended from a lower end of the anti-slip arrangement, wherein the raw rubber of the pair of anti-slip members are vulcanized and integrated to form the tubular anti-slip arrangement while the cotton yarn reinforced rubber layers are also vulcanized to integrally coat on an outer circumferential surface of the anti-slip arrangement, wherein the raw rubber of the pair of control members is vulcanized with the lower end of the anti-slip arrangement to form the tubular control arrangement which is integrated coaxially with the anti-slip arrangement.

[0042] In the step (a), each half of anti-slip member has two or more longitudinal sections having different thickness to form a tapered tubular body and appropriate weight of raw rubber to ensure the junction between the anti-slip arrangement and the control arrangement being evenly integrated to provide an even thickness here.

[0043] These and other objectives, features, and advantages of the present invention will become apparent from the following detailed description, the accompanying drawings, and the appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0044] FIG. 1 is a perspective of a gold club grip according to a preferred embodiment of the present invention.

[0045] FIG. 2 is a cross-sectional view of the golf club grip with the golf club according to the above preferred embodiment of the present invention.

[0046] FIG. 3 illustrates a step of a method of manufacturing a golf club grip for the golf club according to the above preferred embodiment of the present invention.

[0047] FIG. 4 is a schematic bottom view of the golf club grip attached to the golf club according to the above preferred embodiment of the present invention, illustrating the anti-slip arrangement gripped by a holding hand of a golfer and a control arrangement gripped by another controlling hand of the golfer.

[0048] FIG. 5 is a schematic view of a conventional golf club grip with a golfer gripped with both hands.

[0049] FIG. 6 is a perspective of a golf club grip according to a preferred embodiment of the present invention, illustrating the first and second members having different properties.

[0050] FIG. 7 illustrates the golf club grip with first, second, and third members having different natures of fabric textile, color, hardness and viscosity.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0051] Referring to FIGS. 1 to 4 and 6 of the drawings, a golf club grip 1 for a golf club 1A according to a preferred

embodiment of the present invention is illustrated, wherein the golf club grip 1 comprises a first member 20 and a second member 10.

[0052] The second member 20, which is rubber made tube, has a lower end 201, an upper end 202 and a gripping surface 21 defining between the upper end 202 and the lower end 201.

[0053] The first member 10, which is rubber made tube, has an upper end 102 and a lower end 101 coaxially integrated with the upper end 202 of the first member 20 to form an elongated integral tubular body for attaching to an upper end portion of the shaft of the golf club 1A, wherein the first member 10 has an outer circumferential surface 11 integrally extended from the gripping surface 21 of the second member 20. The first and second members 20, 10 have different natures to provide two different properties.

[0054] As shown in FIGS. 1 to 4, the first member 10 forms an anti-slip arrangement and the second member 20 forms a lower control arrangement to provide two different properties.

[0055] Accordingly, the circumferential gripping surface 21 of the second member 20 has a softness adapted for enhancing a sense of touching feel for a controlling hand H' of a golfer to grip thereon.

[0056] The anti-slip arrangement of the first member 10 is coaxially integrated with the upper end 202 of the second member 20 to form an elongated integral tubular body for attaching to the upper end portion of the shaft 1A of the golf club. The anti-slip arrangement of the first member 10 forms a circumferential anti-slipping surface on the circumferential surface 11 to provide a predetermined gripping friction for a holding hand H of the golfer to grip thereon.

[0057] The upper end 102 of the first member 10 of the golf club grip 1 further integrally provides a rubber made endpiece 30 to cover the upper end 102. The elongated integral tubular body of the golf club grip 1 is adapted for coaxially attaching to an upper end portion of a shaft 1A1 of the golf club 1A that can be a driver, a fairway wood, an iron, or a putter. The anti-slipping surface 11 of the second member 10 is constructed to provide a predetermined gripping friction for the holding hand H which generally wears a golf glove to grip thereon.

[0058] Referring to FIGS. 1 and 4, the anti-slip arrangement of the first member 10 has a predetermined length L1 long enough for at least a middle finger H3, a ring finger H2 and a little finger H1 of the holding hand H of the golfer to be completely gripped thereon and that a ring finger H2', a middle finger H3' and an index finger H4' of the controlling hand H' of the golfer is capable of naturally placing on the control arrangement 20. Of course, the golf club grip 1 can be classified into man size, woman size, teenager size, and child size according to the different sizes of their hands. Therefore, the length L1 of the anti-slip arrangement of the first member 10 should be varied from different size of the holding hand of man, woman, teenager, or children of different age according to the requirement as described above.

[0059] In order to better understand the novel structure of the golf club grip 1 of the present invention to form the anti-slip arrangement of the first member 10 and the lower

control arrangement of the second member 20, a method of manufacturing the golf club grip 1 according to the preferred embodiment of the present invention is illustrated in FIG. 3 and described in the following, wherein the method comprises the following steps.

[0060] (a) Overlap a textile fabric such as a cotton yarn 12 or the like on an exterior surface of a first raw rubber layer 11' and paint a rubber latex 110' on the cotton yarn 12 to attach the cotton yard 12 on the exterior surface of the first raw rubber layer 11' to form a thin reinforced rubber layer 111' laminated with the cotton yarn 12, as shown in FIG. 3(A).

[0061] (b) Prepare a second raw rubber layer 210' which is shaped and sized to form at least a pair of control members 21', as shown in FIG. 3(B).

[0062] (c) Shape the first raw rubber layer 110' that is coated with the cotton yarn laminated rubber layer 111' to form at least a pair of anti-slip members 13', as shown in FIGS. 3(A) and 3(C).

[0063] (d) Align the pair of anti-slip members 13' with the pair of control members 21' in an end to end manner in two halves of heat mold M respectively.

[0064] (e) Vulcanize the pair of anti-slip members 13' and the pair of control members 21' in the heat mold to form the golf club grip 1 including the tubular anti-slip arrangement 10 and the control arrangement 20 coaxially extended from the lower end of the anti-slip arrangement of the first member 10, wherein the raw rubber of the pair of anti-slip members 13' is vulcanized and integrated to form the tubular anti-slip arrangement of the first member 10 while the cotton yarn reinforced rubber layers 111' are also vulcanized to integrally coat on an outer circumferential surface 11 of the anti-slip arrangement of the first member 10, wherein the raw rubber of the pair of control members 21' is vulcanized with and extended from the lower end 101 of the anti-slip arrangement of the first member 10 to form the tubular control arrangement of the second member 20 which is integrated coaxially with the anti-slip arrangement of the first member 10, as shown in FIGS. 1 and 2.

[0065] In other words, only the first member 10 contains the textile fabric to provide a gripping friction on the anti-slipping surface 11 of the first member for the holding hand H which generally wears a golf glove to grip thereon. There is no textile fabric provided on the gripping surface 21 of the second member 20 to enhance the sense of touching feel for a controlling hand H' of a golfer to grip thereon.

[0066] In which, the first and second raw rubber layers 11' and 210' may have different compositions so that, after the vulcanization process, the anti-slip members 13' can be harder than the control members 21'. Various additives may be added into the first and second raw rubber layers 11', 21' to control their hardness and softness. For example, sulfur can be used to harden the raw rubber and keep it remaining flexible in the room temperature. Preferably, the lower control arrangement of the second member 20 is softer than the upper anti-slip arrangement of the first member 10. It is worth to mention that a predetermined material (1904 hardening agent) is added to the first member 10 to increase the hardness thereof for preventing any torque occurring at the first member 10. During the golfer swings the golf club, the golfer will apply the torque at the upper portion of the shaft

of the golf club to twist at the first member **10**. Since the upper portion of the shaft of the golf club is received in the first member **10**, the angle of the club face will be unintentionally changed once the torque occurs at the first member **10**.

[0067] In the step (a), the cotton yarn **12** which is overlapped on the exterior surface of the first raw rubber layer **11'** is adhered on the exterior surface of the first raw rubber layer **11'** by the rubber latex **110'** such that, during the vulcanization step (e), the rubber latex **110'** of the thin reinforced rubber layer **111'** is vulcanized to integrate with the first raw rubber layer **11'** to form the anti-slip arrangement of the first member **10**. The amount of the rubber latex **110'** to be painted on the exterior surface of the first raw rubber layer **11'** is to form a thin layer of rubber latex **110'** having a thickness slightly smaller than a diameter of each cotton filament of the cotton yarn **12**. In other words, the cotton yarn **12** would not be completely covered by the rubber latex **110'** and at least a portion of the cotton yarn **12** should be evenly and spacedly exposed outside around the anti-slip arrangement of the first member **10** after vulcanization so as to produce a coarse exterior surface as the anti-slipping surface **11** so that the holding hand H of the golfer can be substantially in contact with such exposed portions of the cotton yarn **12**. Accordingly, the anti-slipping surface **11** not only provides a frictional contact with the golfer's holding hand H but also limits and controls the elasticity of the rubber material to produce a reinforced harder surface for better holding feel of the holding hand H of the golfer. In other words, the cotton yarn **12** is only formed on the first member **10** to provide different properties with respect to the second member **20**.

[0068] In order to provide a better gripping effect, most of the golf club grips **1** are made in taper shape, i.e. to gradually increase its outer diameter from a lower end to an upper end. Especially, the taper angle of the upper end **102** of the anti-slip arrangement of the first member **10** generally increases for a better holding effect so that the thickness of the upper end **102** is much thicker than that of the lower end **101**, as shown in FIG. 2. In addition, in order to ensure an even and smooth integration of the raw rubber materials of the lower ends of the anti-slip members **13'** and the upper ends of the control members **21'** to form the elongated integral tubular body of the golf club grip **1**.

[0069] Each of the anti-slip members **13'** has two or more longitudinal sections having different weight of raw rubber to form a tapered tubular body and to ensure the junction between the first member **10** and the second member being evenly integrated to provide an even thickness there. In order to doing so, as shown in FIG. 3(D), a taper shaped additional raw rubber piece **130'** is attached to an interior surface of each of the anti-slip members **13'** so as to gradually increase the weight of total raw rubber from the lower end to the upper end.

[0070] Both the anti-slip members **13'** and the control members **21'** should be weighted to ensure quality. Preferably, the weight of each of the anti-slip members **13'** is approximately 18.8 g and the weight of each of the control members **21'** is approximately 11.8 g.

[0071] As shown in FIGS. 3(B) and 3(C), both the anti-slip members **13'** and the control members **21'** are each cut into a predetermined taper shape adapted to form a semi-

tubular shape member corresponding to the designated size and shape of the upper portion and lower portion of golf club grip **1**.

[0072] As shown in FIGS. 3(F) and 3(G), the anti-slip members **13'** and the control members **21'** are aligned in an end-to-end manner in a semi-circular mold socket **M11** or **M12** of one of the base mold **M1** and the upper mold **M2** of a steel made vulcanization mold **M**. The semi-circular mold sockets **M11** and **M12** are aligned to form a plurality of tubular mold sockets after the base mold **M1** and the upper mold **M2** are connected together, wherein a plurality of core shafts **S** are coaxially placed inside the tubular mold sockets respectively to ensure the tubular shape of the golf club grip **1** after vulcanization. During the vulcanization, the temperature within the vulcanization mold **M** should be heated to 100 degree Celsius or more.

[0073] It is worth to mention that the endpiece **30** is placed at the base mold **M1** at the upper end **102** of the second member to integrally attach at the upper end **102** of the second member. In addition, the color of the endpiece **30** can be the same of the color of the second member to provide a uniform appearance or can be different from the second member to enhance the aesthetic appearance of the golf club grip. Alternatively, the endpiece **30** can be attached to the upper end **102** of the second member after the first member is integrally coupled with the second member in the step (e).

[0074] According to the preferred embodiment, as shown in FIG. 3(E), before the step (e), the method may further comprise a pre-shaping step in an aluminum mold **M'**, wherein a half of the anti-slip member **13'** and a half of the control member **21'** are aligned end to end in a semi-circular mold socket **M1'** of the aluminum mold **M'** to form a semi-tubular body before the vulcanization.

[0075] According to the golf club grip **1** of the present invention, as shown in FIG. 4, the upper anti-slip arrangement of the first member **10** is integrated coaxially with the lower control arrangement of the second member **20**, wherein the anti-slip arrangement of the first member **10** provides a frictional surface to enable the three holding fingers **H1**, **H2**, **H3** (i.e. the middle, ring and little fingers) of a gloved holding hand H of the golfer to better holding the golf club **1A** with appropriate pressure and the control arrangement of the second member **20** provides a smoother surface to ensure better feeling and control for the bared controlling hand H' of the golfer.

[0076] The anti-slip arrangement of the first member **10** further comprises a cotton yarn reinforced coarse surface as the anti-slip surface **11** for better frictional contact with the gloved holding hand H of the golfer and a harder surface structure than the control arrangement of the second member **20** to ensure an anti-slipping grip with appropriate pressure while the control arrangement of the second member **20** still provide a softer and smoother feel for controlling grip of the bared controlling hand H' of the golfer.

[0077] As mentioned above, as shown in FIGS. 1 and 4, the anti-slip arrangement of the first member **10** of the golf club grip **1** has a length **L1** long enough for the three holding fingers **H1**, **H2**, **H3** (the middle, ring and little fingers) and the index finger **H4** of the upper holding hand H of the golfer to completely grip thereon normally while the index finger **H4** is just placed at the lower end **101** of the anti-slip

arrangement **10**, so that the ring, middle and index fingers **H2'**, **H3'** and **H4'** of the controlling hand **H'** can naturally place on the control arrangement of the second member **20** of the golf club grip **1** and align immediately with the index finger **H4** of the holding hand **H**. Also, the control arrangement of the second member **20** should generally have a length **L2** longer than a size of the controlling hand **H'** for a completely and comfortably grip thereon.

[0078] According to the preferred embodiment of the present invention, as shown in FIGS. **1** and **4**, for some golfers who may need to hold the golf club with their lower controlling hands **H'** with more pressure, an upper portion of a bottom side of the control arrangement of the second member **20** can be made to provide with an additional anti-slip portion **22** which is sized and shaped to ensure the middle phalanges of the ring, middle and index fingers **H2'**, **H3'** and **H4'** of the lower controlling hand **H'** are in contact therewith to provide a better frictional contact for those golfers. In order to make such additional anti-slip portion **22**, in the step (b) of the manufacturing method of the golf club grip **1**, a piece of cotton yarn **22'** is attached to an upper end portion of an exterior surface of one of the pair of control members **21'** by painting a rubber latex onto the piece of cotton yarn **22'** like the adhering method of the cotton yarn **12'** on the first raw rubber layer **11'** as taught in the step (a).

[0079] Since the cotton yarn surface reinforced anti-slip arrangement of the first member **10** is integrated with the control arrangement of the second member **20** to form an integral body where the lower end **101** of the anti-slip arrangement of the first member **10** is fused with the upper end **202** of the control arrangement of the second member **20** so as to ensure a comfortable interlocking, natural or overlapping grip between the holding hand **H** and the controlling hand **H'** of the golfer.

[0080] It is worth to mention that the cotton yarn **12** of the anti-slip arrangement of the first member **10** renders a less elasticity than the control arrangement of the second member **20** and provides a reinforced harder surface while the control arrangement of the second member **20** would have a softness softer than the anti-slip arrangement of the first member **10** for enhancing a sense of touching for the controlling hand **H'** of the golfer. Therefore, the golfer is able to swing the golf club **1A** by securely holding the anti-slip surface **11** by the gloved holding hand **H** while feelingly control the golf club **1A** by holding the controlling hand **H'** on the gripping surface **01** of the control arrangement **20**. The anti-slip arrangement **10** can be made harder than the control arrangement **20** in the sense that the anti-slip arrangement **10** is less deformative with respect to pressure.

[0081] FIGS. **1** to **4** illustrate the first and second members **10**, **20**, having different properties, form the anti-slip arrangement and the control arrangement respectively and the manufacturing method thereof. FIG. **6** illustrates the first and second members **10**, **20** forming in different natures to provide different properties.

[0082] Accordingly, the first and second members **10**, **20** have different elasticity. One advantage of the present invention is that since the first member **10** and the second member **20** have various elasticity, a greater frictional force is created between the first member **10** and the golf glove of the holding hand **H** while a lesser frictional force is created between the second member **20** and the bare hand of the

golfer. Since the bare hand, i.e. the controlling hand **H'**, of the golfer directly contacts with the second member **20**, the fingers of the bare hand have better sense of touching comfortably so as to enhance the control of the golf club **1A**. In addition, the vibration of the golf club **1A** during the swing could be absorbed by the second member **20** so as to further enhance the swinging control of the golf club **1A**. Therefore, the golfer would feel comfortable when his or her controlling hand **H'** holds the first member **20** and his or her holding hand **H** holds the first member **10**. This arrangement reduces the risk of the bare hand getting hurt and also helps the gloved hand to apply swinging force to golf club **1** directly.

[0083] Alternatively, the viscosity of each of the first and second members **10**, **20** is selectively adjusted by adding a predetermined additive into the raw rubber of the first and second members such that the first and second members **10**, **20** have different viscosities to provide different stickiness of the controlling hand **H'** and the holding hand **H** of the golfer. Accordingly, the viscosity of the first member **10** is different the viscosity of the second member **20** such that the golfer is able to hold the golf club grip in position. In other words, the viscosity of each of the first and second members **10**, **20** provides a predetermined stickiness between the hands of the golfer and the outer circumferential surface of the golf club grip **1**. Accordingly, the first member **10** is much sticky than the second member **20** such that the holding hand **H** of the golfer has a better feeling at the first member **10**. Likewise, the first member **10** is less sticky than the second member **20** to fit the need of the golfer.

[0084] The manufacturing method of the golf club grip **1** to provide different viscosities at the first and second members **10**, **20** is the same as the above mentioned method as shown in FIG. **3**, except the anti-slip members **13'** becoming the first viscosity member and the control member **21'** becoming the second viscosity member. In other words, the viscosity of the first raw rubber layer **110'** is different from the viscosity of the second raw rubber layer **210'**. Accordingly, an additive can be added to one of the first and second raw rubber layers **110'210'** to alter the viscosity thereof when the first and second raw rubber layers **110'210'** are made of same material, so as to provide two different viscosities of the first and second members **10**, **20**.

[0085] Also, as described above, a color of the second member **20** is different from a color of the first member **10** to form a two-tone color club grip. The first and second members **10**, **20** are made of rubbers of different colors and hardness for purposes of identification and various elasticity. Accordingly, the rubbers of different elasticity are dyed of different colors. Thus, the first member **10** and the second member **20** would appear in different colors so as to help the golfer to identify the two portions. As a result, the golfer can easily place her hands onto the correct portions. Moreover, the different colors serve the aesthetic purposes and make the club more attracting. In addition to the various colors, the portions may be variously patterned and decorated with paints for the purposes of increasing the frictional contact and decoration. For example, stripes of colors are provided at the ends and interface of the first member **10** and the second member **20**, respectively. The stripes can be any colors different from those of the first and second members **10**, **20** in order for indication of the same.

[0086] It is worth to mention that the golfer is able to tailor make the golf club grip depending on the personal preference or need by selecting the fabric textile, color, hardness and/or viscosity of each of the first and second members 10, 20 of the golf club grip. In addition, a third member and a fourth member can be integrally and coaxially extended from the first and second members to form the elongated integral tubular body of the golf club grip 1 of the present invention as shown in FIG. 7. In other words, the golf grip 1 can contain more than two tubular portions having different natures to provide different fabric textile, color, hardness and/or viscosity for the golfer to handle the golf club. For example, a third member 40 has a lower end 401 and an upper end 402, wherein the upper end 402 of the third member 40 is coaxially integrated with the lower end 201 of the second member 20, wherein an outer circumferential surface 41 of the third member 40 is integrally extended from the gripping surface 21 of the second member 20. Therefore, the second member 20 is integrally extended between the first and third members 10, 40 end-to-end to form an elongated integral tubular body for attaching to the upper end portion of the shaft 1A of the golf club. The first, second, and third members 10, 20, 40 would have different fabric textiles, colors, hardness and/or viscosities. In other words, the first member 10 may have a combination of fabric textile, color, hardness, and viscosity different from the second and third members 20, 40.

[0087] One skilled in the art will understand that the embodiment of the present invention as shown in the drawings and described above is exemplary only and not intended to be limiting.

[0088] It will thus be seen that the objects of the present invention have been fully and effectively accomplished. The embodiments have been shown and described for the purposes of illustrating the functional and structural principles of the present invention and is subject to change without departure from such principles. Therefore, this invention includes all modifications encompassed within the spirit and scope of the following claims.

What is claimed is:

1. A golf club grip for a golf club including a shaft and a club head attached to a lower end of the shaft, wherein said golf club grip comprises:

at least a second member which is rubber made tube having a lower end, an upper end and a gripping surface defining between the upper end and the lower end;

at least a first member which is rubber made tube having an upper end and a lower end coaxially integrated with said upper end of said second member to form an elongated integral tubular body for attaching to an upper end portion of said shaft of said golf club, wherein said first member has an outer circumferential surface integrally extended from said gripping surface of said second member, wherein said first and second members have different natures to provide two different properties of said golf club grip; and

a rubber made endpiece integrally formed at said upper end of said second member.

2. The golf club grip, as recited in claim 1, wherein said first and second members have different hardness.

3. The golf club grip, as recited in claim 2, wherein said second member is softer than said first member.

4. The golf club grip, as recited in claim 1, wherein said outer circumferential surface of said first member and said gripping surface of said second member have different friction.

5. The golf club grip, as recited in claim 2, wherein said outer circumferential surface of said first member and said gripping surface of said second member have different friction.

6. The golf club grip, as recited in claim 4, wherein said outer circumferential surface of said first member has greater friction than said gripping surface of said second member.

7. The golf club grip, as recited in claim 1, wherein each of said first and second members has a viscosity to provide a predetermined stickiness on each of said gripping surface and said outer circumferential surface.

8. The golf club grip, as recited in claim 5, wherein each of said first and second members has a viscosity to provide a predetermined stickiness on each of said gripping surface and said outer circumferential surface.

9. The golf club grip, as recited in claim 7, wherein said first member is much sticky than said second member.

10. The golf club grip, as recited in claim 1, wherein said first and second member have different colors.

11. The golf club grip, as recited in claim 8, wherein said first and second member have different colors.

12. The golf club grip, as recited in claim 1, wherein said first and second member have different fabric textiles.

13. The golf club grip, as recited in claim 11, wherein said first and second member have different fabric textiles.

14. The golf club grip, as recited in claim 12, wherein said second member comprises a thin reinforced rubber layer laminated with cotton yarn to form said fabric textile of said first member.

15. A method of manufacturing a golf club grip for a golf club including a shaft and a club head attached to a lower end of the shaft, wherein the method comprises the steps of:

(a) preparing a first raw rubber layer which is shaped and sized to form at least a pair of first rubber pieces;

(b) preparing a second raw rubber layer which is shaped and sized to form at least a pair of second rubber pieces;

(c) aligning said pair of first rubber pieces with said pair of second rubber pieces in an end to end manner in two halves of heat mold respectively; and

(d) forming said pair of first rubber pieces and said pair of first rubber pieces in said heat mold to form said golf club grip including a tubular first member and a tubular second member coaxially extended from a lower end of said first member, wherein said raw rubber of said pair of first rubber pieces is integrated to form said tubular first member, wherein said raw rubber of said pair of second rubber pieces is extended from said lower end of said first rubber piece to form said second member which is integrated coaxially with said first member, wherein said first and second members have different natures to provide two different properties of said golf club grip.

16. The method as recited in claim 15, in the steps (a) and (b), further comprising a step of adding additives into at least

one of said first raw rubber layer and said second raw rubber layer so as to provide different hardness for said first and second members.

17. The method, as recited in claim 16, wherein said second member is softer than said first member.

18. The method as recited in claim 15, in the steps (a) and (b), further comprising a step of adding additives into at least one of said first raw rubber layer and said second raw rubber layer such that each of said first and second members has a viscosity to provide a predetermined stickiness on said outer circumferential surfaces for said first and second members.

19. The method, as recited in claim 18, wherein said first member is much sticky than said second member.

20. The method as recited in claim 15, in the steps (a) and (b), further comprising a step of coloring at least one of said

first raw rubber layer and said second raw rubber layer to provide different colors for said first and second members.

21. The method as recited in claim 15, in step (b), further comprising a step of overlapping a textile fabric on an exterior surface of each of said first rubber pieces and painting a rubber latex on said textile fabric to attach said textile fabric on said exterior surface of said first rubber piece, wherein said textile fabric is treated to integrally coat on an outer circumferential surface of said second member, in step (d), to form a frictional coarse surface thereof while said first member contains no fabric textile so as to provide two different frictional surfaces of said first and second members.

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