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(54) **YOGA CUSHION-PADDED SOCK**

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(57) **ABSTRACT**

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The present invention relates to a yoga cushion-padded sock in which a cushion pad is attached through mold pressing instead of needlework so as to adjust a thickness of the cushion pad and to simultaneously attach the cushion pad to both sides or one side. Particularly, as a yoga-exclusive sock, the cushion pad is attached to a part of a frictional surface during yoga moves so as to strengthen grip with a floor and complexly provide a shock absorption function and a non-slip quality, and the cushion pad includes air holes to be smoothly ventilated.

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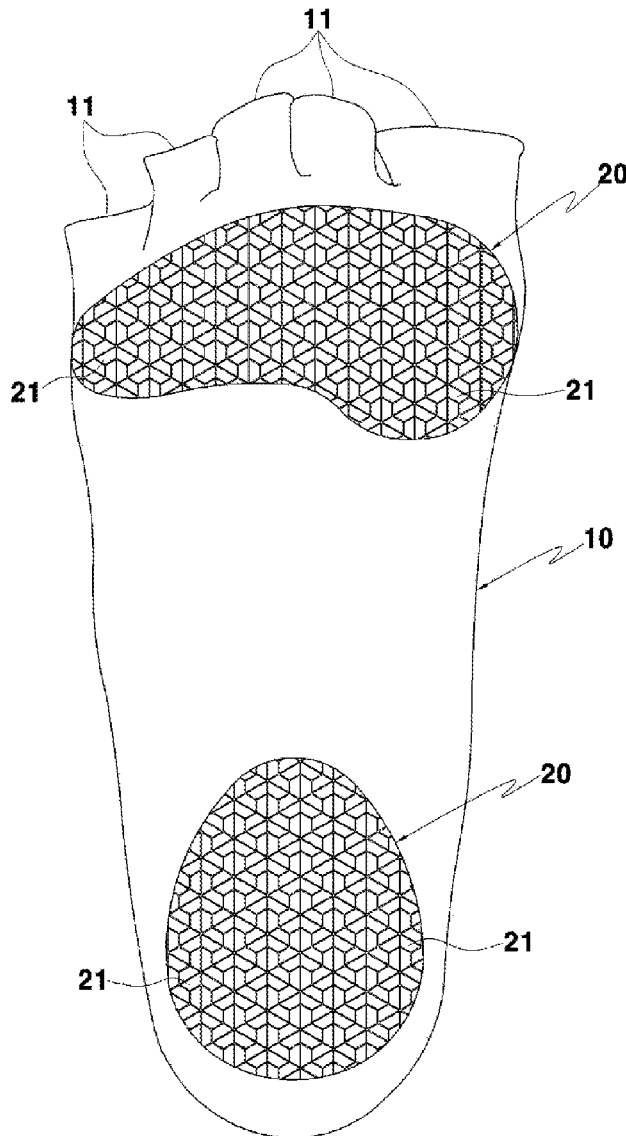


FIG. 1

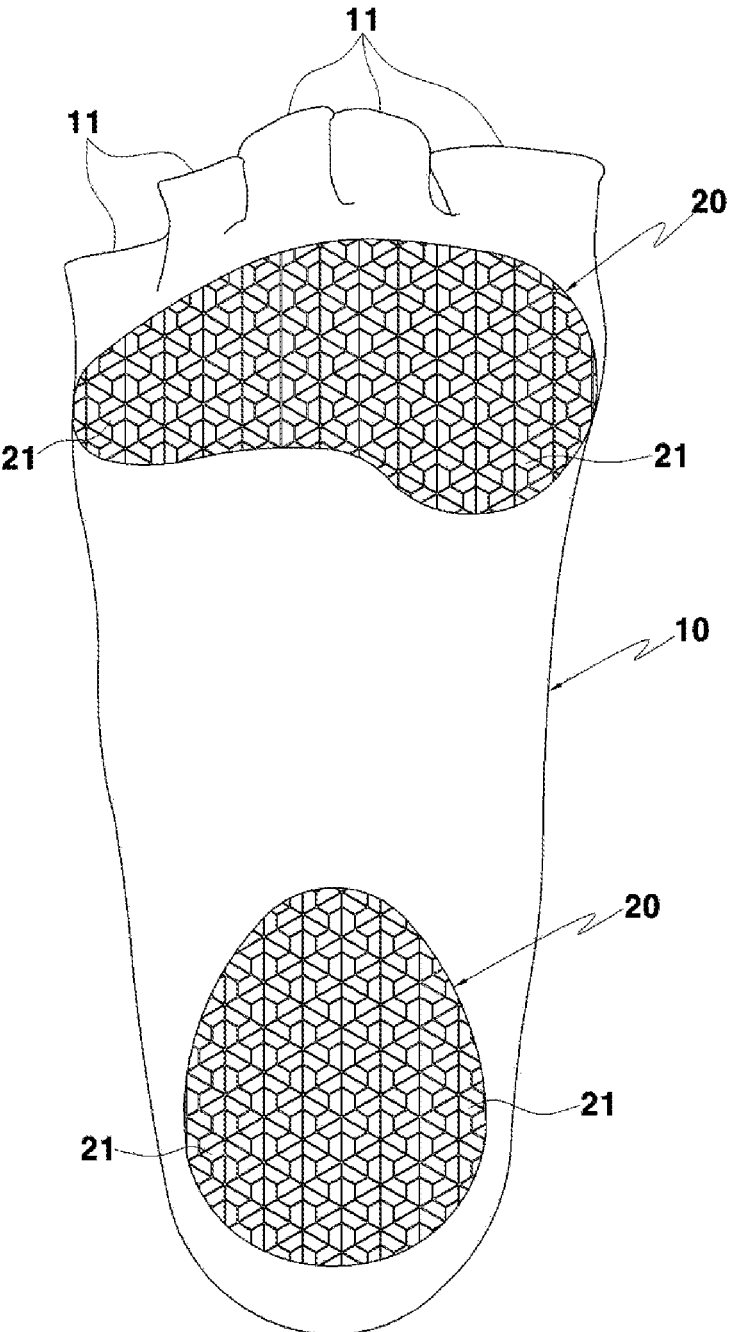


FIG. 2

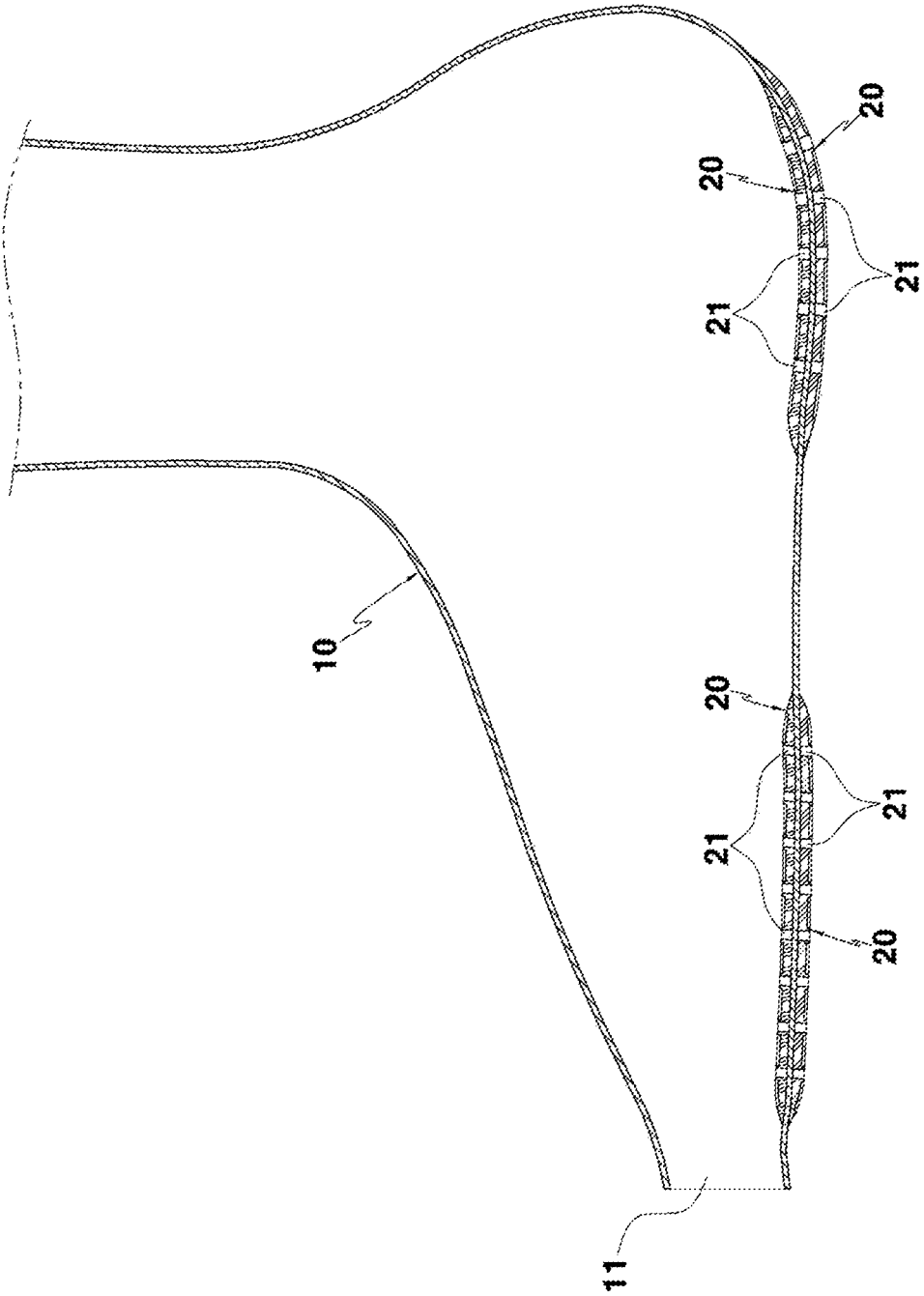


FIG. 3

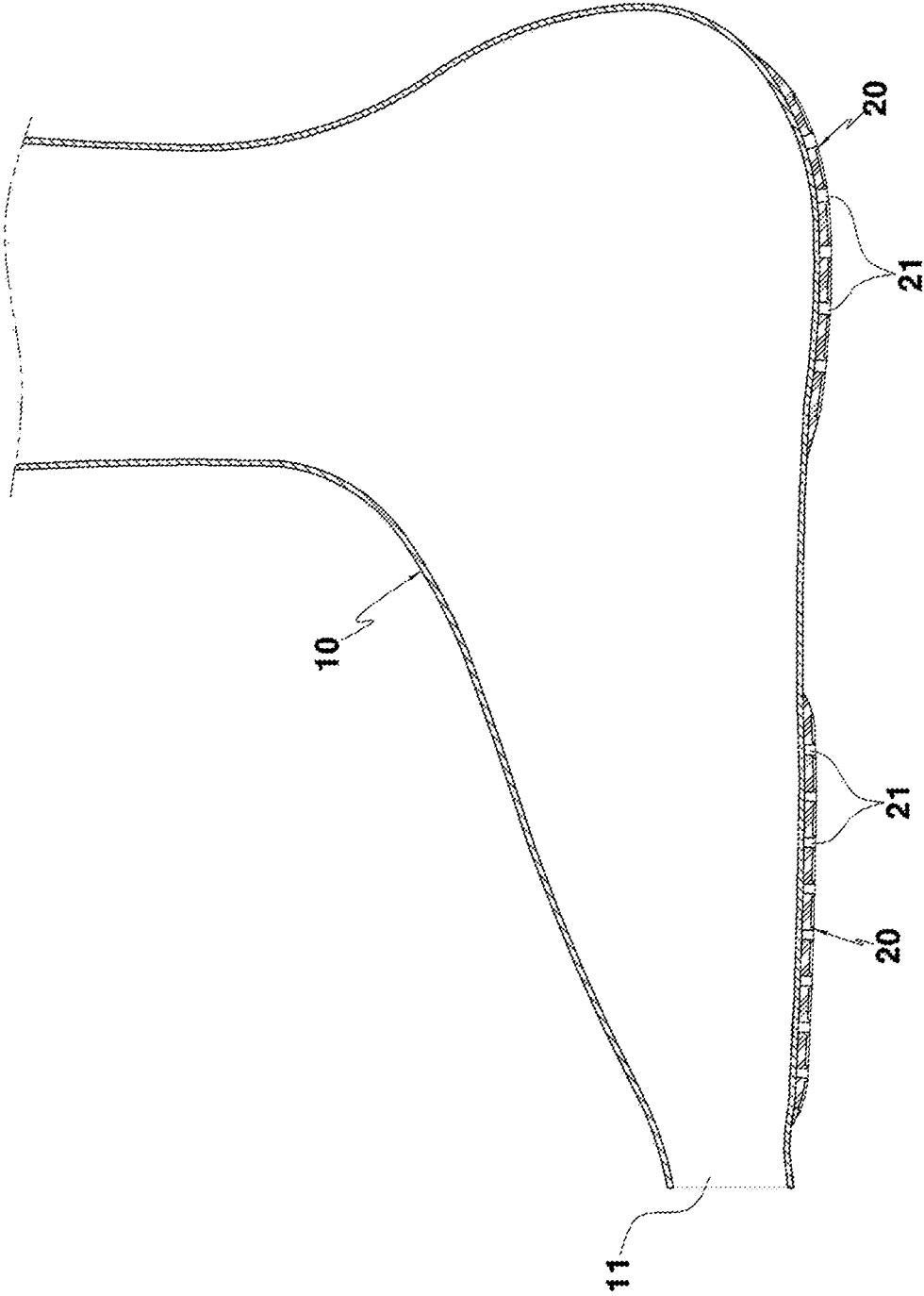


FIG. 4

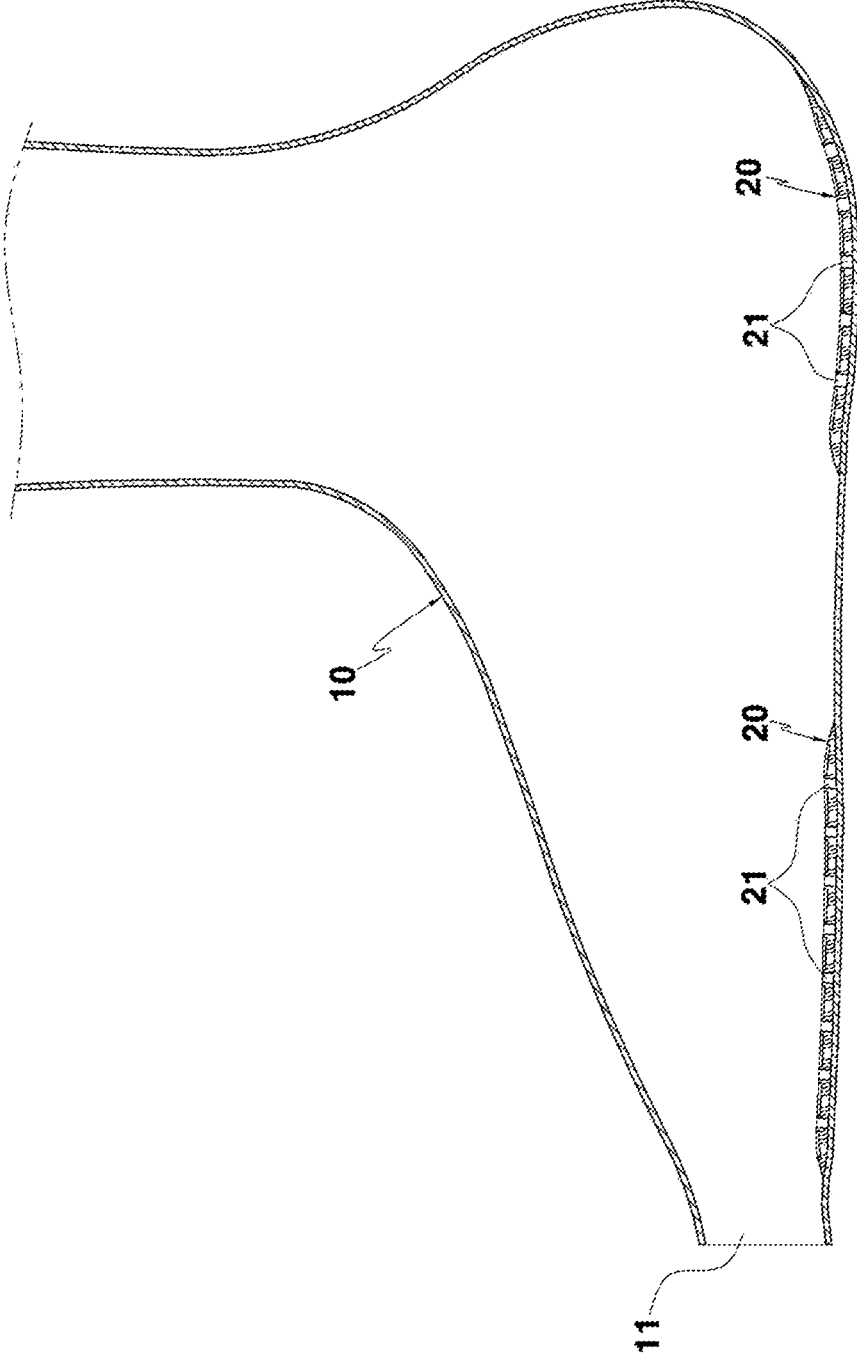
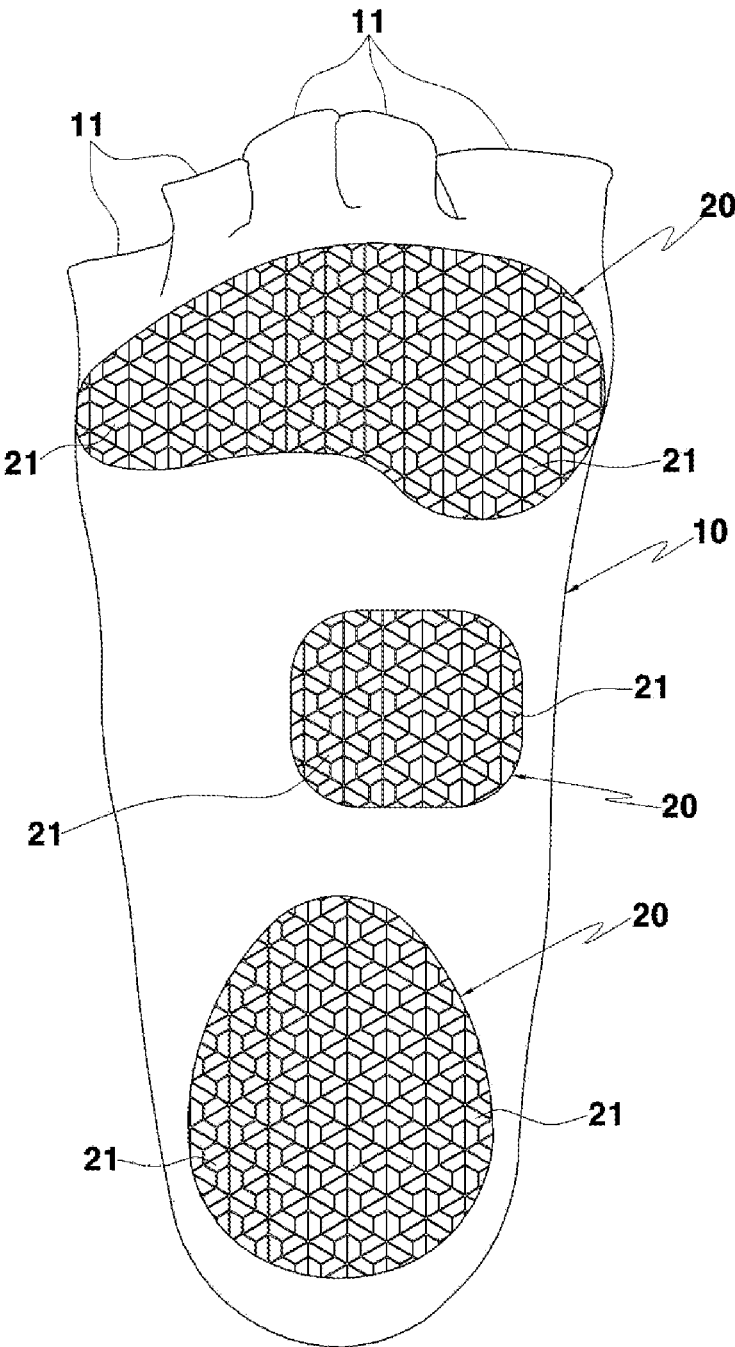


FIG. 5



YOGA CUSHION-PADDED SOCK

TECHNICAL FIELD

[0001] The present invention relates to a yoga cushion-padded sock in which a cushion pad is attached through mold pressing instead of needlework so as to adjust a thickness of the cushion pad and to attach the cushion pad to both sides or one side. Particularly, as a yoga-exclusive sock, the cushion pad is attached to a part of a frictional surface during yoga poses so as to strengthen grip with a floor and complexly provide a shock absorption function and a nonslip quality, and the cushion pad includes air holes to be smoothly ventilated.

BACKGROUND ART

[0002] Generally, since yoga or Pilates, which are popular as healing exercise, are forms of indoor exercise and need stability and maintenance in posture and the like, mobility of toes is important and it is necessary to practice yoga with bare feet in order to prevent feet from slipping and to be balanced. As described above, yoga or Pilates is a bare-foot exercise in which it is important to support feet to not slip in order to maintain a pose. During such exercise activities, socks are not worn and a yoga mat and the like are utilized to prevent contamination caused by exercise with a great deal of contact with feet.

[0003] However, yoga socks have been on the market due to grip with a floor, contamination of feet, and inconvenience of exercising in the winter caused by cold feet. Recently, most popularly known yoga socks are formed as toe socks having a single-side nonslip structure.

[0004] Since there is a limitation in aesthetics of weaving knitted toe socks, actually, yoga socks providing a decorated bottom nonslip design while simultaneously being functional have received attention on the market. However, current yoga toe socks are limited to only an external nonslip design. As an example, Korean Design Registration No. 30-0837396 discloses a yoga sock which includes openings through which toes are exposable in a front part, an opened instep part, and a nonslip part formed on a bottom surface to prevent a slip and is worn during indoor exercise such as yoga, Pilates, and the like.

[0005] An existing single-side nonslip bottom has an effect of strengthening a grip between a floor and a sock by attaching a nonslip member to an outer side of the sock but can not resolve slipping between the sock and a foot. Also, there are problems such as a phenomenon wherein the sock is pulled backward and a phenomenon wherein the foot and sock slip due to the grip between the floor and the sock, and in a severe situation, the sock is folded.

[0006] Also, since the nonslip member is attached to a desired position on an outer side of the sock using a conventional method such as a sticker type patch, silk printing, silicone-coating or the like, it is structurally impossible to firmly attach the nonslip member to the sock such that the nonslip member is easily detached. Accordingly, there is a problem that the nonslip member is easily separated from the sock while being washed.

[0007] Also, since a conventional nonslip part is not ventilated, the foot sweats a great deal and becomes wet. When the nonslip member is wet with sweat, a water membrane is formed and slipping occurs such that a nonslip function is destroyed.

[0008] Also, conventionally, since the nonslip member is manufactured with a uniform thickness and a uniform area and is attached or the nonslip member is attached through silk printing or silicone coating with a uniform thickness and a uniform area, it is structurally impossible to adequately adjust a thickness and a size of the nonslip member.

[0009] Meanwhile, pile weave is considered to be essential in exercising socks for hygroscopicity and feet protection. However, it is impossible to apply pile weave to toe socks due to a problem of a current knitting skill.

[0010] Due to the above reason, generally, a point sock (linking) formed by separately knitting a toe part and a body part and then connecting the same is the only toe pile sock. However, it is difficult to produce the point sock.

[0011] To remedy such problems, as an alternative to a toe sock which is incapable of being pile-weaved, a cushion pad is attached to a toe part using needlework to increase a nonslip effect and a cushioning property. However, in the case of needlework type attachment, durability and grip are low and it is uncomfortable to wear.

[0012] Related Design Document: Korean Design Registration No. 30-0837396 (registered on Jan. 26, 2016)

DISCLOSURE

Technical Problem

[0013] The present invention is directed to providing a yoga cushion-padded sock in which a cushion pad is attached using a mold pressing method instead of needlework so as to adjust a thickness of the cushion pad while simultaneously attaching the cushion pad to both sides or one side.

[0014] The present invention is also directed to providing a yoga cushion-padded sock that is a yoga-exclusive sock in which a cushion pad is attached to a part of a frictional surface during yoga moves so as to strengthen grip with a floor and to complexly provide a shock absorption function and a nonslip quality.

[0015] The present invention is also directed to providing a yoga cushion-padded sock in which a cushion pad includes air holes to be smoothly ventilated so as to prevent the cushion pad from becoming wet.

[0016] The present invention is also directed to provided a yoga cushion-padded sock capable of completely remedying conventional problems including not only grip between the sock and the floor but also a slipping phenomenon between a foot and the sock, providing a high effectiveness in strengthening performance by increasing a sense of contact with the floor during yoga moves, reducing manufacturing costs to have excellent price competitiveness and durability, and being modifiable into a variety of designs.

Technical Solution

[0017] One aspect of the present invention provides a yoga cushion-padded sock that is a yoga sock having openings, through which toes are exposed, and in which a cushion pad is attached to a part of the sock, which is a frictional surface of a sole during yoga moves, through mold pressing so as to provide functions of strengthening grip with a floor, shock absorption, and a nonslip quality, wherein the cushion pad includes a plurality of air holes so as to be smoothly ventilated.

[0018] The cushion pad may be attached to each of an inner surface and an outer surface of a toe part and a heel part of a bottom of the sock **10** or attached to any one surface of the inner surface and the outer surface.

[0019] The cushion pad may be attached to each of an inner surface and an outer surface of a middle part of the bottom of the sock or attached to any one surface of the inner surface and the outer surface.

Advantageous Effects

[0020] According to a yoga cushion-padded sock of the present invention, since a cushion pad is attached using a mold pressing method instead of needlework, it is possible to adjust a thickness of the cushion pad while the cushion may be simultaneously attached to both sides or one side.

[0021] Also, as a yoga-exclusive sock, since a patch type nonslip cushion pad is attached to a position corresponding to a frictional surface of a sole during yoga moves, there are effects of strengthening grip with a floor and complexly providing a shock absorption function and a nonslip quality. Also, since a plurality of air holes are formed in the cushion pad attached to the sock so as to be smoothly ventilated, it is possible to prevent the cushion pad from becoming wet during exercise and prevent a water membrane from being formed on the cushion pad which destroys or degrades the nonslip function.

[0022] Also, there are effects of completely remedying conventional problems including not only poor grip between the sock and the floor but also a slip phenomenon between a foot and the sock, providing a great effect in strengthening performance by increasing a sense of contact with the floor during yoga moves, and reducing manufacturing costs to have price competitiveness, excellent durability, and being modifiable into a variety of designs.

DESCRIPTION OF DRAWINGS

[0023] FIG. 1 is a bottom view of a yoga cushion-padded sock according to the present invention.

[0024] FIG. 2 is a cross-sectional view illustrating a state in which a cushion pad according to the present invention is attached to each of an inner side and an outer side of a sock.

[0025] FIG. 3 is a cross-sectional view illustrating a state in which the cushion pad according to the present invention is attached to only the outer side of the sock.

[0026] FIG. 4 is a cross-sectional view illustrating a state in which the cushion pad according to the present invention is attached to only the inner side of the sock.

[0027] FIG. 5 is a bottom view illustrating a state in which the cushion pad according to the present invention is further attached to a middle part of the sock.

MODES OF THE INVENTION

[0028] Hereinafter, technical components of the present invention will be described in detail with reference to the attached drawings.

[0029] As basic features of the technical concept, a yoga cushion-padded sock according to the present invention is a yoga sock **10** including opening portions **11** through which toes are exposed as shown in FIGS. 1 to 5. A cushion pad **20** is attached to a part of the sock **10**, which is a frictional surface of a sole during yoga moves, through mold pressing so as to provide functions of strengthening grip with a floor,

shock absorption, and a nonslip quality. The cushion pad **20** includes a plurality of air holes **21** so as to be smoothly ventilated.

[0030] Here, the sock **10** according to the present invention is exclusively used for yoga exercise, and the sock **10** according to the present invention is formed as an incised toe sock including five opening portions **11** at a front thereof so as to allow toes to be exposed.

[0031] The patch type nonslip cushion pad **20** mold-adheres to an adequate position on the sock **10**, that is, a position corresponding to the frictional surface of the sole during yoga moves, and the cushion pad **20** includes the plurality of air holes **21** to be smoothly ventilated. Here, since the cushion pad **20** includes the plurality of air holes **21** formed to be smoothly ventilated, the cushion pad **20** may be prevented from becoming wet when yoga is practiced such that it is possible to prevent a water membrane from being formed on the cushion pad **20** which destroys or degrades the nonslip function.

[0032] In a process of attaching the cushion pad **20** to the sock **10** through mold pressing, a pad molding groove is formed in a mold for attaching the cushion pad **20** to the sock **10**. Polyethylene terephthalate (PET) or silicone, which is a raw material of the cushion pad **20**, is injected into the pad molding groove of the mold, the mold is inserted into a heater so as to melt the material, the mold is placed on the sock **10** while being turned upside down and is inserted into a lower fixing plate of a press so as to allow the material melted in the heater to come into contact with a pad attachment portion of the sock **10**, and the mold is heated and compressed by an upper compression plate of the press to firmly attach the cushion pad **20** to the sock **10** using heat and pressure so as to not be detached therefrom.

[0033] The cushion pad **20** having a variety of pattern is firmly attached to a part of the sock **10** which needs strengthening of a grip force with the floor, a shock absorption function, and a nonslip quality through molding as described above.

[0034] According to the present invention, the cushion pad **20** is attached to each of an inner side and an outer side of toe and heel parts of a bottom of the sock **10** or attached to any one of the inner side and the outer side.

[0035] According to one example of the present invention, as shown in FIG. 2, the cushion pad **20** may be attached to each of the inner side and the outer side of the toe and heel parts of the bottom of the sock **10**. In this case, since the cushion pad **20** may be attached to each of the inner side and the outer side of the bottom of the sock **10** as shown in FIG. 2 so as to apply a nonslip member to both-sides, it is possible to effectively prevent slipping between the sock **10** and the floor during yoga moves.

[0036] Meanwhile, the sock **10** of the present invention is formed as a toe sock including opening portions **11**. Since the toe sock is a non-pile-weaved sock, it is possible to apply the nonslip member to both sides using an existing silk screen method. When the nonslip member is applied to both sides using an existing silk screen method, manufacturing costs thereof may be reduced and productivity may be increased.

[0037] According to one example of the present invention, the cushion pad **20** may be attached to only the outer sides of the toe and heel parts of the bottom of the sock **10** as shown in FIG. 3. Also, according to one example of the

present invention, the cushion pad 20 may be attached to only the inner sides of the toe and heel parts of the bottom of the sock 10.

[0038] According to the present invention, the cushion pad 20 is further attached to each of an inner side and an outer side of a middle part of the bottom of the sock 10 or further attached to any one of the inner side and the outer side.

[0039] That is, according to another example of the present invention, the cushion pad 20 may be further attached to the outer side of the middle part of the bottom of the sock 10 as shown in FIG. 5. Also, not shown in the drawings, the cushion pad 20 may be further attached to the inner side of the middle part of the bottom of the sock 10. In this case, the cushion pad 20 may be further attached to each of the inner side and the outer side of the middle part of the bottom of the sock 10. Also, the cushion pad 20 may be further attached to only the inner side or the outer side of the middle part of the bottom of the sock 10.

[0040] The cushion pad 20 may be attached to the inner side and the outer side of the bottom of the sock 10 as described above. However, in addition, the cushion pad 20

advantages of preventing the cushion pad 20 from becoming wet during exercise and of preventing a water membrane from being formed on the cushion pad 20 which destroys or degrades the nonslip function.

[0044] Also, according to the present invention, there are advantages of completely remedying conventional problems including not only grip between the sock 10 and the floor but also a slip phenomenon between a foot and the sock 10, providing a great effect in strengthening performance by increasing a sense of contact with the floor during yoga moves, reducing manufacturing costs to have excellent price competitiveness and durability, and being modifiable into a variety of designs.

[0045] Also, in the present invention, since the cushion pad 20 having a variety of patterns may be firmly attached to the sock 10 using molds, there is an advantage that the cushion pad 20 is not separated from the sock 10 when the sock is washed.

[0046] Comparison between the above-described yoga cushion-padded sock of the present invention and yoga socks of an existing company T, company B, and other companies is shown in Table 1 below.

TABLE 1

	Yoga cushion-padded sock of the present invention	Yoga sock of company T	Yoga sock of company B	Yoga sock of another company
Manufacturing method	Mold pressing of bottom cushion pad using heat and pressure	Attaching cushion pad through needlework	Nonslip member on single side of bottom	Nonslip member on single side of bottom
Workability	Pressing-attachment using heat and pressure	Needlework	Silk screening on bottom	Silk screening on bottom
Durability Advantages	Excellent Very excellent nonslip effect and maximized grip using both-side nonslip	Average Effects of cushioning and nonslip on single side of bottom are more excellent than existing yoga socks	Average —	Poor —
Disadvantages	Increase in working processes	Slight uncomfortable and low durability of sewed cushion	Average durability	Poor durability

may be further attached to a part which needs a nonslip quality and a shock absorption function of the sock 10.

[0041] Accordingly, in the present invention, since the cushion pad 20 is attached using mold pressing instead of a needlework type cushion pad, it is possible to adjust a thickness of the cushion pad 20 while simultaneously attaching the cushion pad 20 to one side or each of both sides.

[0042] Also, since the present invention provides the sock 10 for yoga in which the patch type nonslip cushion pad 20 is attached to a position corresponding to the frictional surface of the sole during yoga moves, there are advantages of strengthening grip with the floor and complexly providing a shock absorption function and a nonslip quality.

[0043] Also, in the present invention, since the cushion pad 20 attached to the sock 10 includes the plurality of air holes 21 formed to achieve smooth ventilation, there are

[0047] As seen from Table 1, in comparison to the yoga socks of company T, company B, and other companies, in the yoga cushion-padded sock formed using a mold according to the present invention, a cushion pad manufactured using a mold is attached to both sides or any one side of a sock such that the cushion pad is fixed to the sock. Accordingly, it may be seen that a cushion function is improved, durability is not less than an existing needlework type or silk-screen type sock, and an outstanding effect is present in permeability.

10: sock	11: opening portion
20: cushion pad	21: airhole

1. A yoga cushion-padded sock that is a yoga sock (10) having opening portions (11), through which toes are exposed, and in which a cushion pad (20) is attached to a part of the sock (10), which is a frictional surface of a sole during yoga poses, through mold pressing so as to provide functions of strengthening grip with a floor, shock absorption, and a nonslip quality, wherein the cushion pad (20) includes a plurality of air holes (21) so as to be smoothly ventilated, wherein the cushion pad (20) is firmly attached to each of an inner side and an outer side of toe and heel parts of a bottom of the sock through molding so as to apply a nonslip member to both-sides, and the cushion pad (20) attached to each of an inner side and an outer side of toe and heel parts of a bottom of the sock through molding includes the plurality of air holes formed to face each other to achieve smooth ventilation.

2. (canceled)

3. The yoga cushion-padded sock of claim 1, wherein the cushion pad (20) is attached to each of an inner side and an outer side of a middle part of the bottom of the sock (10) or is attached to any one side of the inner side and the outer side.

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