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(54) **HEAT CONDUCTING MECHANISM FOR PERSONAL CARE DEVICE AND PERSONAL CARE DEVICE**

WÄRMELEITENDER MECHANISMUS FÜR KÖRPERPFLEGEVORRICHTUNG UND KÖRPERPFLEGEVORRICHTUNG

MÉCANISME DE CONDUCTION DE CHALEUR POUR DISPOSITIF DE SOINS PERSONNELS ET DISPOSITIF DE SOINS PERSONNELS

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Description

FIELD OF THE INVENTION

[0001] The invention relates to a heat conducting mechanism for a personal care device according to the preamble of claim 1 and a personal care device according to claim 6. Hence, the disclosure relates to cosmetology and hairdressing appliances, and particularly to a heat conducting mechanism for a personal care device and a personal care device.

BACKGROUND

[0002] For an existing personal care device, mostly, its heating plate is directly made of an aluminum plate. However, the aluminum plate is lower in strength, is easy to wear, and is not high in heat resistance. From e.g. CN 203 378 685 U a heat conducting mechanism from the initially mentioned type is known.

SUMMARY

[0003] To solve the defects in the background, an object of the disclosure is to provide a heat conducting mechanism for a personal care device and a personal care device using the heat conducting mechanism.

[0004] The technical solutions used by the disclosure to solve the technical problem thereof are as follows.

[0005] The invention provides a heat conducting mechanism for a personal care device according to claim 1 and a personal care device according to claim 6. Further embodiments of the invention are described in the dependent claims. A heat conducting mechanism for a personal care device includes: a heat conductor and a mounting rack, wherein, the heat conductor is fixedly mounted on the mounting rack, the heat conductor is an aluminum plate, and a bamboo fiber layer is arranged at a working face of the heat conductor.

[0006] Preferably, the bamboo fiber layer and the heat conductor are independent respectively, and the bamboo fiber layer is matched with the heat conductor in an insertion way.

[0007] Preferably, cone-shaped grooves are formed at the surface of the heat conductor, two sides of the bamboo fiber layer are fitted with the cone-shaped grooves, and the bamboo fiber layer is inserted into the cone-shaped grooves.

[0008] Preferably, convex clamping blocks are arranged on inner topper sides of a groove of the mounting rack, and concave grooves fitted with the clamping blocks are arranged at the outer surface of the heat conductor.

[0009] Preferably, a surface of the bamboo fiber layer is higher than the surface of the heat conductor.

[0010] A personal care device using the heat conducting mechanism includes: a pair of holding components, tails of which are hinged, wherein, the heat conducting mechanism is arranged inside the holding components,

a heating body is embedded in the heat conducting mechanism, and the heat conducting mechanism is in contact with the heating body.

[0011] The beneficial effects of the disclosure are as follows. The aluminum plate and bamboo fibers are combined, and the aluminum plate is easy to form, low in machining requirements and low in material cost. For example, for a using face, the bamboo fibers are additionally arranged at a surface of the aluminum plate. The bamboo fibers have good breathability and high wear resistance, and have the functions of natural antibiosis, bacteriostasis, mite removal, deodorizing and ultraviolet ray resistance, and thus the effect of environmental protection is achieved.

BRIEF DESCRIPTION OF THE DRAWINGS

[0012]

Figure 1 is a stereoscopic structural diagram of a heat conducting mechanism according to the disclosure.

Figure 2 is a front view of the heat conducting mechanism according to the disclosure.

Figure 3 is a stereoscopic diagram of a personal care device made by using the heat conducting mechanism.

DETAILED DESCRIPTION

[0013] The disclosure is further explained below in conjunction with the drawings.

[0014] Referred to Figures 1 and 2, the disclosure includes a heat conductor 2 and a mounting rack 1, wherein, the heat conductor 2 is fixedly mounted on the mounting rack 1, and wherein, the heat conductor 2 is an aluminum plate, and, according to the invention, a bamboo fiber layer 3 or, not according to the invention, a carbon fiber layer 3 is arranged at a working face of the heat conductor 2. The bamboo fiber layer or the carbon fiber layer 3 is laid at the working surface of the heat conductor 2, allowing a part in contact with hair in a working process to be the bamboo fiber layer or a carbon fiber layer.

[0015] The bamboo fiber layer or the carbon fiber layer 3 and the heat conductor 2 are independent respectively, and the bamboo fiber layer or the carbon fiber layer 3 is matched with the heat conductor 2 in an insertion way.

Cone-shaped grooves are formed at the surface of the heat conductor 2, two sides of the bamboo fiber layer or the carbon fiber layer 3 are fitted with the cone-shaped grooves, and the bamboo fiber layer or the carbon fiber layer 3 is inserted into the cone-shaped grooves. The bamboo fiber layer or the carbon fiber layer 3 may also be fixed to the heat conductor 2 in a sticking way, only if it is ensured that the bamboo fiber layer or the carbon fiber layer 3 can not drop down.

[0016] Convex clamping blocks 4 are arranged on inner topper sides of a groove of the mounting rack 1, concave grooves fitted with the clamping blocks 4 are arranged at the outer surface of the heat conductor 2. The clamping blocks 4 are clamped in the concave grooves of the heat conductor 2, so that the heat conductor 2 is fixed in the mounting rack 1 and a phenomenon that the heat conductor 2 drops down is prevented from occurring.

[0017] A surface of the bamboo fiber layer or the carbon fiber layer 3 is higher than the surface of the heat conductor 2, and the bamboo fiber layer or the carbon fiber layer 3 has elasticity. Therefore, in a tightly holding process, in the case that the surface of the bamboo fiber layer or the carbon fiber layer 3 is higher than the surface of the heat conductor 2, the bamboo fiber layer or the carbon fiber layer 3 allows a position which is held tightly to be tighter and allows holding or perming of hair to be better in effect.

[0018] Bamboo fibers are of cellulosic fibers extracted from a bamboo growing naturally. The bamboo fibers have properties of good breathability, instant water absorption, stronger wear resistance and the like, and also have the functions of natural antibiosis, bacteriostasis, mite removal, deodorizing and ultraviolet ray resistance. Experts point out that the bamboo fibers are of natural environment-friendly green fibers in the real sense, and the bamboo fibers have high-quality inverse elasticity, wear resistance, and flame resistance. The natural bamboo fibers can absorb water which is 20 percentage of weight of themselves, are highest in water absorption among other fiber fabric of the same density, and have excellent inverse elasticity and flame resistance.

[0019] The bamboo fibers and the aluminum plate are combined, that is, the advantages that the aluminum plate is easy to form, low in machining requirements and low in material cost are utilized. The bamboo fibers are used at the surface of the aluminum plate, also the advantages that the bamboo fibers have high strength, moderate elasticity modulus, good heat resistance, light weight, wear resistance and the like are utilized, and the heat conducting mechanism is allowed to be more resistant to heat and have no deformation.

[0020] Referred to Figure 3, a personal care device using the heat conducting mechanism includes a pair of holding components, tails of which are hinged, wherein, the heat conducting mechanism is arranged inside the holding components, a heating body is embedded in the heat conducting mechanism, and the heat conducting mechanism is in contact with the heating body. Through using the heat conducting mechanism where the bamboo fiber layer 3, according to the invention, or the carbon fiber layer 3, not according to the invention, and the aluminum plate are combined, and through allowing the bamboo fiber layer or the carbon fiber layer 3 to be the working face, the defects that the aluminum plate has no heat resistance and no wear resistance in the past are solved.

[0021] The embodiments should not be regarded as limitation of the disclosure, as long as this falls within the scope of the claims.

Claims

1. A heat conducting mechanism for a personal care device, comprising: a heat conductor (2) and a mounting rack (1), wherein the heat conductor (2) is fixedly mounted on the mounting rack (1), wherein the heat conductor (2) is an aluminum plate, and wherein a fiber layer (3) is arranged at a working face of the heat conductor (2),
characterized in that the fiber layer (3) is a bamboo fiber layer.
2. The heat conducting mechanism for the personal care device according to claim 1, wherein the bamboo fiber layer (3) and the heat conductor are independent respectively, and the bamboo fiber layer (3) is matched with the heat conductor in an insertion way.
3. The heat conducting mechanism for the personal care device according to claim 2, wherein cone-shaped grooves are formed at the surface of the heat conductor (2), two sides of the bamboo fiber layer (3) are fitted with the cone-shaped grooves, and the bamboo fiber layer (3) is inserted into the cone-shaped grooves.
4. The heat conducting mechanism for the personal care device according to claim 1, wherein convex clamping blocks (4) are arranged on inner topper sides of a groove of the mounting rack (1), and concave grooves fitted with the clamping blocks (4) are arranged at the outer surface of the heat conductor (2).
5. The heat conducting mechanism for the personal care device according to claim 1, wherein a surface of the bamboo fiber layer (3) is higher than the surface of the heat conductor (2).
6. A personal care device using the heat conducting mechanism according to claim 1, comprising: a pair of holding components, tails of which are hinged, wherein the heat conducting mechanism is arranged inside the holding components, a heating body is embedded in the heat conducting mechanism, and the heat conducting mechanism is in contact with the heating body.

Patentansprüche

1. Wärmeleitmechanismus für eine Körperpflegevor-

richtung, aufweisend: einen Wärmeleiter (2) und ein Montagegestell (1), wobei der Wärmeleiter (2) fest an dem Montagegestell (1) montiert ist, wobei der Wärmeleiter (2) eine Aluminiumplatte ist und wobei eine Faserschicht (3) an einer Arbeitsfläche des Wärmeleiters (2) angeordnet ist,

dadurch gekennzeichnet, dass die Faserschicht (3) eine Bambusfaserschicht ist.

2. Wärmeleitmechanismus für die Körperpflegevorrichtung gemäß Anspruch 1, wobei die Bambusfaserschicht (3) und der Wärmeleiter jeweils unabhängig sind und die Bambusfaserschicht (3) in einer Einsetzart mit dem Wärmeleiter zusammenpasst.
3. Wärmeleitmechanismus für die Körperpflegevorrichtung gemäß Anspruch 2, wobei an der Oberfläche des Wärmeleiters (2) konisch geformte Nuten ausgebildet sind, zwei Seiten der Bambusfaserschicht (3) mit den konisch geformten Nuten zusammenpassen und die Bambusfaserschicht (3) in die konisch geformten Nuten eingesetzt ist.
4. Wärmeleitmechanismus für die Körperpflegevorrichtung gemäß Anspruch 1, wobei konvexe Klemmblocke (4) an inneren oberen Seiten einer Nut des Montagegestells (1) angeordnet sind und konkave Nuten, die mit den Klemmblocken (4) zusammenpassen, an der Außenfläche des Wärmeleiters (2) angeordnet sind.
5. Wärmeleitmechanismus für die Körperpflegevorrichtung gemäß Anspruch 1, wobei eine Fläche der Bambusfaserschicht (3) höher als die Fläche des Wärmeleiters (2) ist.
6. Körperpflegevorrichtung, die den Wärmeleitmechanismus gemäß Anspruch 1 verwendet, aufweisend: ein Paar von Haltekomponenten, wobei Enden davon gelenkig gelagert sind, wobei der Wärmeleitmechanismus innerhalb der Haltekomponenten angeordnet ist, ein Heizkörper in den Wärmeleitmechanismus eingebettet ist und der Wärmeleitmechanismus mit dem Heizkörper in Kontakt ist.

une couche de fibres de bambou.

2. Mécanisme de conduction de la chaleur d'un dispositif de soins personnels selon la revendication 1, où la couche de fibres de bambou (3) et le conducteur de la chaleur, sont indépendants, respectivement, et la couche de fibres de bambou (3) correspond au conducteur de la chaleur pour ce qui est de l'insertion.
3. Mécanisme de conduction de la chaleur d'un dispositif de soins personnels selon la revendication 2, où des rainures en forme de cônes sont formées à la surface du conducteur de la chaleur (2), deux côtés de la couche de fibres de bambou (3) sont dotés des rainures en forme de cônes, et la couche de fibres de bambou (3) est insérée dans les rainures en forme de cônes.
4. Mécanisme de conduction de la chaleur d'un dispositif de soins personnels selon la revendication 1, où des blocs de serrage convexes (4) sont agencés sur les côtés du haut intérieurs d'une rainure du support de montage (1), et des rainures concaves dotées des blocs de serrage (4) sont agencées au niveau de la surface extérieure du conducteur de la chaleur (2).
5. Mécanisme de conduction de la chaleur d'un dispositif de soins personnels selon la revendication 1, où une surface de la couche de fibres de bambou (3) est plus haute que la surface du conducteur de la chaleur (2).
6. Dispositif de soins personnels utilisant le mécanisme de conduction de la chaleur selon la revendication 1, comprenant : une paire de composants de support, dont les pans sont articulés, où le mécanisme de conduction de la chaleur est agencé à l'intérieur des composants de support, un corps chauffant est incorporé dans le mécanisme de conduction de la chaleur, et le mécanisme de conduction de la chaleur est en contact avec le corps chauffant.

Revendications

1. Mécanisme de conduction de la chaleur d'un dispositif de soins personnels, comprenant : un conducteur de la chaleur (2) et un support de montage (1), où le conducteur de la chaleur (2) est monté de manière fixe sur le support de montage (1), où le conducteur de la chaleur (2) est une plaque en aluminium, et où une couche de fibres (3) est agencée au niveau d'une face opérationnelle du conducteur de la chaleur (2),
caractérisé en ce que la couche de fibres (3) est

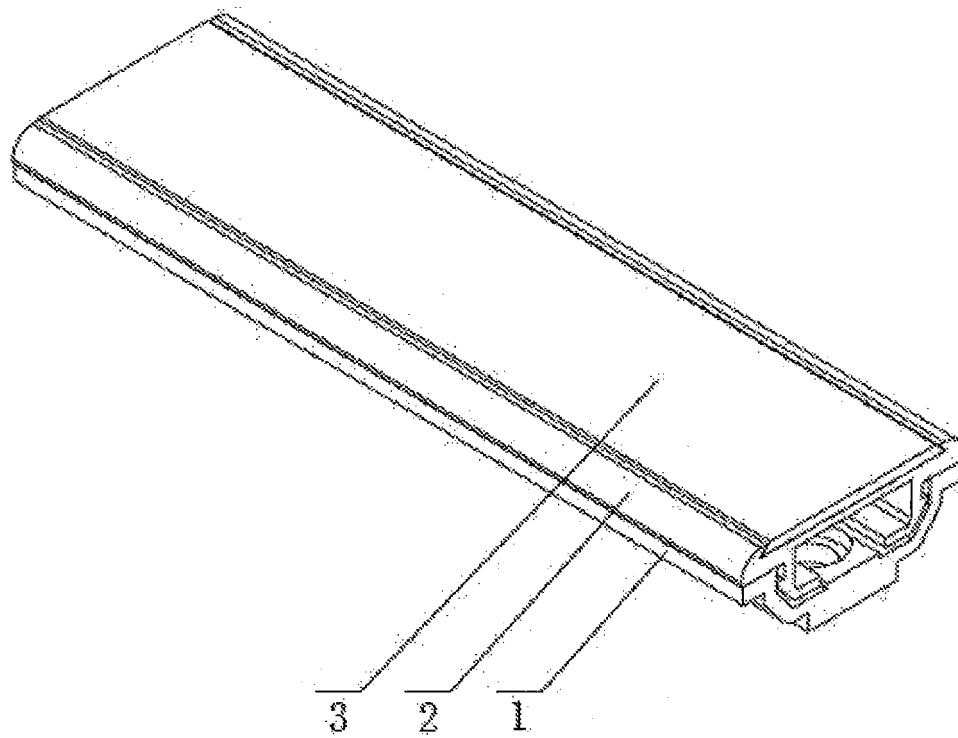


FIG. 1

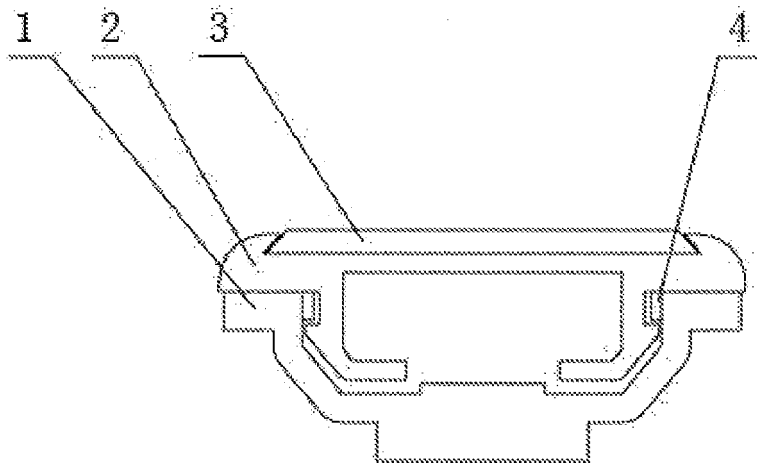


FIG. 2

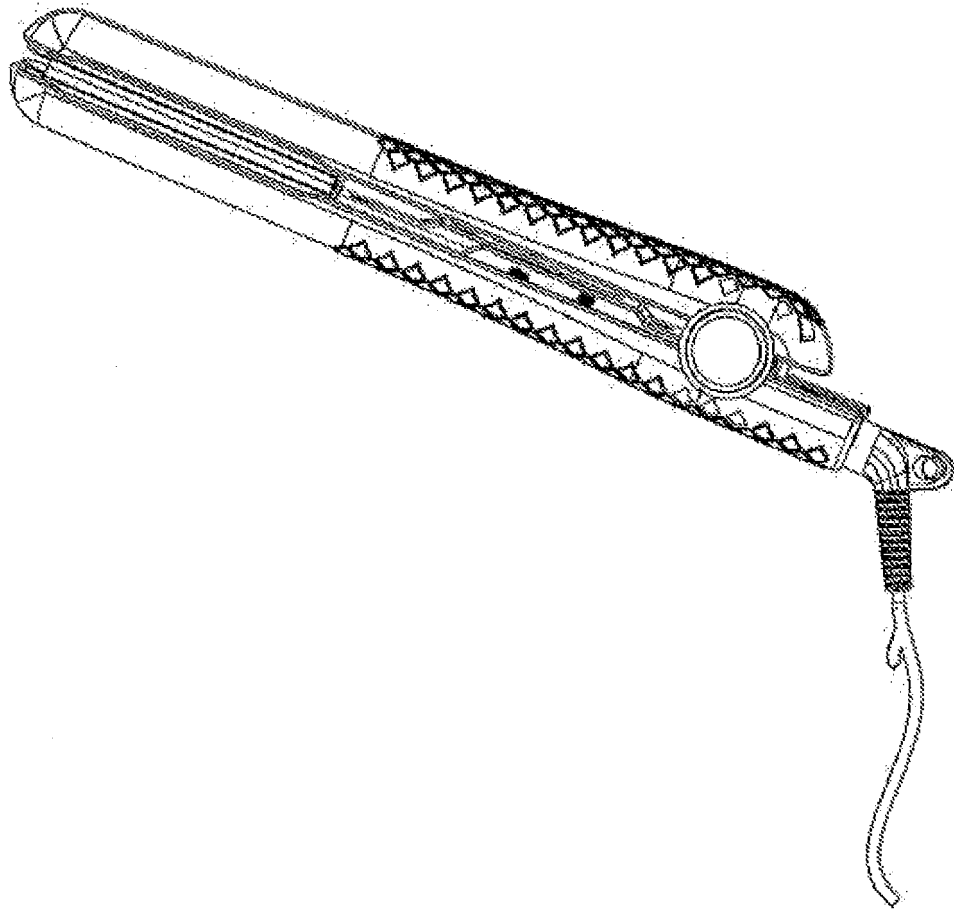


FIG. 3

REFERENCES CITED IN THE DESCRIPTION

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