[0014] FIG. 7 is a partial enlarged view of a position A in FIG. 6.

[0015] FIG. 8 is an exploded schematic view of an electrode and a first cover of the skin care assembly in a direction according to some embodiments of the present disclosure.

[0016] FIG. 9 is a cross-sectional schematic view of an assembling position of the electrode of the skin care assembly according to some embodiments the present disclosure.

[0017] FIG. 10 is a structural schematic view of the first cover and an inner housing of the skin care assembly in a direction according to some embodiments the present disclosure.

[0018] FIG. 11 is a structural schematic view of the first cover and the inner housing of the skin care assembly in another direction according to some embodiments the present disclosure.

[0019] FIG. 12 is a structural schematic view of a heat-dissipating body of the skin care assembly in a direction according to an embodiment of the present application.

[0020] FIG. 13 is a structural schematic view of the heat-dissipating body shown in FIG. 11 in a second direction.

[0021] FIG. 14 is a structural schematic view of the heat-dissipating body shown in FIG. 11 in a third direction.

[0022] FIG. 15 is a schematic view of an assembly of the first cover, a second cover, and a heat sink of the skin care assembly according to an embodiment of the present disclosure.

[0023] FIG. 16 is a cross-sectional schematic view of the skin care assembly according to an embodiment of the present disclosure.

[0024] FIG. 17 is a partial enlarged view of a position B in FIG. 165.

[0025] FIG. 18 is an exploded schematic view of the head portion of the skin care assembly according to another embodiment of the present disclosure.

[0026] FIG. 19 is a structural schematic view of a side of a light-transmitting plate close to a phototherapy lamp plate of the skin care assembly according to another embodiment the present disclosure.

[0027] FIG. 20 is a cross-sectional schematic view of the skin care assembly according to another embodiment of the present disclosure.

[0028] FIG. 21 is an exploded schematic view of the first cover, the light-transmitting plate, the phototherapy lamp plate, and a first bolt of the skin care assembly according to another embodiment of the present disclosure.

[0029] FIG. 22 is a cross-sectional schematic view of an assembly of the first cover, the light-transmitting plate, the phototherapy lamp plate, and the first bolt of the skin care assembly according to another embodiment of the present disclosure.

[0030] FIG. 23 is a structural schematic view of the first cover, the second cover, and the inner housing of the skin care assembly according to an embodiment of the present disclosure.

[0031] FIG. 24 is a structural schematic view of the inner housing of the skin care assembly according to an embodiment of the present disclosure.

[0032] FIG. 25 is a structural schematic view of the second cover and the heat sink of the skin care assembly according to an embodiment of the present disclosure.

[0033] FIG. 26 is a structural schematic view of a second sealing component and the second cover of the skin care assembly according to an embodiment of the present disclosure.

DETAILED DESCRIPTION

[0034] In order to make the above purposes, features and advantages of the present disclosure more clear and easily understood, specific embodiments of the present disclosure will be described in detail below with reference to the accompanying drawings. It should be understood that the specific embodiments described herein are only configured to explain the present disclosure, but not limitations of the present disclosure. In addition, it should be noted that, for convenience of description, the drawings only show some but not all structures related to the present disclosure. Based on the embodiments in the present disclosure, all other embodiments obtained by those of ordinary skill in the art without creative work fall within a scope of the present disclosure.

[0035] The terms “first”, “second”, etc., in the present disclosure are configured to distinguish different objects and not configured to describe a specific order. In addition, the terms “include”, “arranged with” “defines” and any variations thereof are

tightened and regenerated while the skin is protected from a damage, and the skin may be tightened, which may improve the cosmetic effect.

[0041] In some embodiments, the skin may be a facial skin. A more superficial skin may be the epidermis, and a deeper skin may be a dermis. When operating, the electrode 06 may be discharged and generate the radio frequency or the micro-current, etc., to perform a cosmetic process for the facial skin.

[0042] In some embodiments, the electrode 06 may be fixedly mounted on the first cover 04. The skin care assembly 1 may be applied in a beauty instrument.

[0043] In some embodiments, the number of electrodes 06 may be four. The electrodes 06 are arranged on a circumferential side of the cold compress component 01 and spaced from each other. A height of an upper surface of the electrode 06 close to the skin flushes with a height of the contacting surface of the cold compress component 01, that is, the electrodes 06 and the cold compress component 01 may be simultaneously in direct contact with the skin. In this way, the cosmetic effect such as firming the skin and shrinking the pores, etc., may be achieved.

[0044] In some embodiments, a material of the cold compress component 01 may be a crystal and/or a metal.

[0045] In some embodiments, the cold compress component 01 may be a material having a good thermal conductivity, such as a sapphire, a Topaz, a rock crystal, a glass, or the like, and configured to directly contact the skin and reduce the temperature of the epidermis. For example, the cold compress component 01 made of a sapphire material has the good thermal conductivity and is skin-friendly.

[0046] In some embodiments, the cold compress component 01 may be in a shape of a circle, an oval, or a polygon. The polygon may be, for example, a square, a rectangle, a pentagon, a hexagon, etc. The shape of the cold compress component 01 is not specifically limited herein.

[0047] In some embodiments, the contacting surface 01a of the cold compress component 01 may have an area between 350 mm^2 and 450 mm^2, a thickness between 2 mm and 5 mm, and a ratio of the area of the contacting surface 01a of the cold compress component 01to the thickness of the contacting surface 01a of the cold compress component 01 is between 88:1 and 225:1.

[0048] In some embodiments, a total power when all electrodes 06 are discharged is between 5 watts and 20 watts. When the skin care assembly 1 is in operating, a temperature of the dermis of the skin is between 50°C and 70°C. An operating power of the refrigeration component 02 is configured to have the temperature of the skin reduced to a range between 15°C and 45°C.

[0049] In some embodiments, the electrode 06 may include an arc-shaped body and a fixing portion protruding from the arc-shaped body towards the cold compress component 01, and the ~~first stepped surface 06a~~ fixing portion is located on a side of the arc-shaped body facing the cold compress component 01. Multiple electrodes 06 are spaced from each other, and a circle is defined by arc-shaped bodies of the multiple electrodes 06, which may exactly enclose the contacting surface 01a of the cold compress component 01 or may also partially overlaps with the contacting surface 01a. and the

[0050] In some embodiments, the cold compress component may include the cold compress component 01 and a cold-conducting layer 07. The cold-conducting layer 07 is arranged between the cold compress component 01 and the refrigeration component 02 and configured to conduct a heat between the cold compress component 01 and the refrigeration component 02. The cold-conducting layer 07 abuts against the cold compress component 01.

[0051] Specifically, the cold-conducting layer 07 is further arranged between the conducting surface 01b of the cold compress component 01 and the refrigeration side of the refrigeration component 02. In this case, due to an existence of the cold-conducting layer 07, the conducting surface 01b of the cold compress component may transfer to a side of the cold-conducting layer 07 facing away from the cold compress component and directly contact with the refrigeration side of the refrigeration component 02. Since the cold-conducting layer 07 has a good thermal conductivity, the refrigeration component 02 may efficiently reduce the temperature of the cold compress component 01 through the cold-conducting layer 07.

[0052] In some embodiments, the conducting surface 01b of the cold compress component is in direct surface-contact with the refrigeration side of the refrigeration component 02. With a surface-contact manner, the heat conduction may be more sufficient and a conduction effect may be maximized.

[0053] In some embodiments, since the conducting surface 01b of the cold compress component is in direct surface-contact with the refrigeration side of the refrigeration component 02, a gap is inevitable in a contact between the two. Therefore, the cold-

conducting layer 07 may be made of an aluminum nitride ceramic or other materials having good thermal conductivity. The surface-contact manner may maximize a heat-transferring effect. Both the cold compress component 01 and the cold-conducting layer 07 are made of materials having good heat-transferring performances.

[0054] In some embodiments, the cold-conducting layer 07 may be filled with a thermally conductive silicone grease, such that a heat transfer may be more sufficient, a control for the temperature may be smoother, and a feeling of the skin may be more comfortable.

[0055] In some embodiments, the skin care assembly 1 may further include a second cover 08, a first mounting plate 35, a second mounting plate 36, an inner housing 11, a button 12, a charging port 10, and a thermally conductive housing 09, or the like. The sapphire in some embodiments of the present disclosure may be artificial or natural.

[0056] In some embodiments, the skin care assembly 1 may further include a lead wire and a wire groove. The lead wire is connected to and fixed on a side of the refrigeration element 02. The wire groove is defined in an inner side of the second cover 08 corresponding to the side where the lead wire is arranged of the refrigeration element 02, and defined along an edge of a limiting hole 24.

[0057] In some embodiments, lead wires may include at least one lead wire. The number of wire grooves is consistent with the number of the lead wires, and the lead wires are accommodated in the wire grooves in a process of assembling the skin care assembly 1, such that the refrigeration component 02 and the heat sink 03 may be connected and fixed together.

[0058] A skin care assembly 1 is also provided in the present disclosure, as shown in FIGS. 2 and 3. The skin care assembly 1 may include the operating member, a mounting bracket 03, and a circuit board. The operating member includes a cold compress component 01 and a refrigeration component 02 located at a head portion of the skin care assembly 1, and has a contacting surface 01a configured to directly contact the skin and reduce a temperature of the skin. The mounting bracket 03 includes a first mounting position and a second mounting position. The operating member is fixed to the mounting bracket 03 through the first mounting position, and the circuit board is fixed to the mounting bracket 03 through the second mounting position. The operating member is located at the head portion of the skin care assembly 1, and the mounting bracket 03 extends from the head portion of the skin care assembly 1 to a tail of the beauty instrument. Both the operating member and the circuit board are mounted on the mounting bracket 03, such that the assembly of each component of the skin care assembly 1 may be more centralized. In this way, a convenient assembly may be achieved, and an overall structure of the skin care assembly 1 may be more compact, such that a volume of the skin care assembly 1 may be reduced.

[0059] In some embodiments, the mounting bracket 03 may also serves as a heat sink to dissipate a heat from the beauty instrument while the mounting bracket 03 is mounted with various components. The mounting bracket 03 is in tight contact with a component such as the operating member in the beauty instrument, which is conducive to a sufficient and uniform heat dissipation. When the beauty instrument is in operating, the mounting bracket 03 may absorb the heat in the whole beauty instrument, making the heat dissipation more efficient. The mounting bracket 03 extending to the tail of the beauty instrument allows the heat to stay for a longer time and not to backtrack in a short time, which increasing a refrigeration period of the operating member.

[0060] In some embodiments, the skin care assembly may include the thermally conductive housing 09, and the mounting bracket 03 includes a third mounting position configured to mount the thermally conductive housing 09.

[0061] In some embodiments, a side surface of the mounting bracket 03 defines a groove, and both the second mounting position and the third mounting position are arranged or defined in the groove.

[0062] In some embodiments, in the groove, the second mounting position may be located at a position having a depth different from a depth of a position where the third mounting position is located, such that the circuit board and the thermally conductive housing 09 may be stacked. The second mounting position is farther from a bottom of the groove than the third mounting position. A stacked arrangement allows various parts to be more orderly arranged on the mounting bracket 03 without interfering with each other.

[0063] In some embodiments, a ratio of a distance from the second mounting position to the bottom of the groove to a distance from the third mounting position to the bottom of the groove may be between 1.5 and 3 times.

[0064] In some embodiments, the skin care assembly includes the ~~first~~second mounting plate 36 and the button 12.

[0065] The button 12 is arranged on the secondfirst mounting plate 36. A side wall of the groove is arranged with a step, and the circuit board is fixed in the groove through the step. The first mounting plate 36 is fixed to the side wall of the groove, and is located on a side of the circuit board facing away from the bottom of the groove.

[0066] In some embodiments, the skin care assembly includes a firstsecond mounting plate 35. The circuit board is mounted on the firstsecond mounting plate 35, the firstsecond mounting plate 35 is mounted on the step, and the firstsecond mounting plate 35 is spaced from the bottom of the groove.

[0067] In some embodiments, the firstsecond mounting plate 36 extends to the tail of the skin care assembly, and an end of the secondfirst mounting plate 36 away from the operating member is defined with a charging port 10 configured to be connected to the circuit board.

[0068] In some embodiments, the first mounting board 356 and the second mounting board 365 themselves may also be circuit boards.

[0069] In some embodiments, a ratio of a length of the second mounting plate 365 to a length of the mounting bracket 03 is between 1.2 and 2. The charging port 10 is spaced from the mounting bracket 03 by a certain distance, and the distance is between 1 cm and 3 cm.

[0070] In some embodiments, the mounting bracket 03 defines a receiving cavity. The receiving cavity is defined on a side surface of the first mounting position and configured to accommodate a part of the lead wires in the skin care assembly.

[0071] In some embodiments, the mounting bracket 03 extends from the head portion of the skin care assembly 1 to the tail of the skin care assembly 1. The operating member cools down the skin or a surface layer of an adjacent tissue of the skin, and a depth of action of an electricity, a magnetism, or an electromagnetic emitted by the electrodes on the skin is greater than that on the surface layer. At the same moment, an area of the contacting surface 01a is greater than an area where the electrodes act on the skin.

[0072] In some embodiments, the skin care assembly 1 further includes the charging port 10. The charging port 10 is arranged at an ending end of the second mounting plate 36 and exposed out of the skin care assembly 1. The second mounting plate 36 may be configured to be mounted with a component or an element necessary for the skin care assembly 1 such as the circuit board, a battery, etc. The skin care assembly 1 may be used when powered on or after charged. When used after charged, the skin care assembly 1 charges for the battery by the charging port 10 being connected to an external power cord. When the skin care assembly 1 is used when powered on, the charging port 10 may generate a certain impedance due to adopting a point-contact manner inside the charging port 10, and heat may be generated when a current passes through the charging port 10. Therefore, the charging port 10 is defined at an end of a mounting plate and away from the heat sink 03, which may avoid the heat generated by the charging port 10 backtracking to the skin care assembly 1 or even the operating member. The heat generated by the charging port 10 backtracking to the skin care assembly 1 or the operation head may affect a refrigeration effect of the refrigeration component 02, thereby affecting the cosmetic effect.

[0073] In some embodiments, the skin care assembly 1 further includes an airflow driver. The airflow driver is arranged opposite to the heat sink and configured to drive airflow near the heat sink to flow so as to enhance a heat-dissipating effect.

[0074] In some embodiments, the airflow driver may be arranged on a position of the skin care assembly 1 close to the head portion. The airflow driver drives the airflow to flow from the head portion to the tail of the skin care assembly 1 and be discharged from an air outlet at the tail of the skin care assembly 1. For example, the airflow driver is a fan, and the fan is located at the head portion and blows air against the heat sink 03. The tail of the skin care assembly 1 defines the air outlet corresponding to a tail of the heat sink 03 to discharge the airflow carrying heat.

[0075] In some embodiments, the heat sink 03 extends from the head portion of the skin care assembly 1 to the tail of the skin care assembly 1. An end of the heat sink 03 located at the tail of the skin care assembly1 is spaced from the tail by a gap, and a size of the gap is less than one third of a length of the skin care assembly 1.

[0076] The heat sink 03 includes the second cover 08 and a heat-dissipating body 031. The second cover 08 is disposed between the heat-dissipating body 031 and the first cover 04, and fixed to the heat-dissipating body 031. The first cover 04 is fixed on the second cover 08.

[0077] In some embodiments, the second cover 08 may be a light-transmitting plate 13.

[0078] In some embodiments, the second cover body 08 further defines the limiting hole 24. A position of the limiting hole 24 corresponds to a position of a first opening 50 of the first cover 04. The limiting hole 24 is fluidly communicated with the first opening 50 of the first cover 04. A part of the refrigeration component 02 is arranged in the limiting hole 24, and an edge of the refrigeration component 02 is 0.5-1 mm away from an edge of the limiting hole 24.

[0079] In some embodiments, a ratio of an area of the limiting hole 24 to an area of the first opening 50 of the first cover 04 is between 0.8 and 1.2.

[0080] FIG. 12 is a structural schematic view of a heat-dissipating body of the skin care assembly in a direction according to an embodiment of the present application. FIG. 13 is a structural schematic view of the heat-dissipating body shown in FIG. 1~~1~~2 in a second direction. FIG. 14 is a structural schematic view of the heat-dissipating body shown in FIG. 1~~1~~2 in a third direction.

[0081] As shown in FIGS. 12 to 14, a skin care assembly 1 is further provided in the present disclosure and includes a heat pipe 32 and a heat-dissipating body 031. An end of the heat pipe 32 is thermally coupled to an end of the heat-dissipating body 031 close to the second cover 08, and the other end of the heat pipe 32 extends along a direction away from the refrigeration component 02 and is thermally coupled to the heat-dissipating body 031.

[0082] The heat-dissipating body 031 itself has a heat-dissipating function, and the heat pipe 32 assists the heat-dissipating body 031 to dissipate the heat, thereby improving a heat-dissipating efficiency of the heat-dissipating body 031. The end of the heat pipe 32 is thermally coupled to the end of the heat-dissipating body 031 close to the second cover 08, and the other end of the heat pipe 32 extends along the direction away from the refrigeration component 02, such that a path for transferring the heat may be long enough to avoid the heat backtracking to the head portion of the beauty instrument in a short time, and a refrigeration period of the beauty instrument may be increased.

[0083] In some embodiments, a section of the heat pipe 32 is bent to form a bent portion, and the bent portion abuts against the end of the heat-dissipating body 031 close to the second cover 08. An inside of the heat pipe 32 has a hollow and closed structure, with liquid filled inside. The heat pipe 32 is not filled up with the liquid. By arranging the bent portion of the heat pipe 32, a contacting area between the heat pipe 32 and the end of the heat-dissipating body 031 close to the second cover 08 may be increased, such that the heat pipe 32 may enhance in a targeted manner that the heat-dissipating body 031absorbs the heat of the heat-generating side of the refrigeration component 02.

[0084] In some embodiments, the heat-dissipating body 031 defines an escape groove 03c. The heat pipe 32 is arranged along an inner wall of the escape groove 03c, at least partially embedded in the escape groove 03c, and welded to the inner wall of the escape groove 03c. An end of the heat pipe 32 away from the bent portion extends to an ending end of the heat-dissipating body 031, such that a contact between the 32 and the heat-dissipating body 031 may be more sufficient, which may improve a heat-dissipating performance of the heat sink 03.

[0085] In some embodiments, a contacting portion 03b is arranged on a side surface of the heat-dissipating body 031 close to the refrigeration component 02. A position of the contacting portion 03b corresponds to the position of the limiting hole 24. The heat-generating side of the refrigeration component 02 may be thermally coupled to the contacting portion 03b through the limiting hole 24.

[0086] In some embodiments, when the contacting portion 03b is a boss, a part of the contacting portion 03b is located in the limiting hole 24, attached to the heat-generating side of the refrigeration element 02, and fixed relative to the heat-generating side of the refrigeration element 02.

[0087] In some embodiments, the heat-dissipating body 031 is made of aluminum by means of integral molding. An end of the heat-dissipating body 031 away from the escape groove 03c has a heat-dissipating fin structure.

[0088] FIG. 18 is an exploded schematic view of the head portion of the skin care assembly according to another embodiment of the present disclosure. FIG. 19 is a structural schematic view of a side of a light-transmitting plate close to a phototherapy lamp plate of the skin care assembly according to another embodiment the present disclosure. FIG. 20 is a cross-sectional schematic view of the skin care assembly according to another embodiment of the present disclosure. FIG. 21 is an exploded schematic view of the first cover, the light-transmitting plate, the phototherapy lamp plate, and a first bolt of the skin care assembly according to another embodiment of the present disclosure. FIG. 22 is a cross-sectional schematic view of an assembly of the first cover, the light-transmitting plate, the phototherapy lamp plate, and the first bolt of the skin care assembly according to another embodiment

of the present disclosure. FIG. 23 is a structural schematic view of the first cover, the second cover, and the inner housing of the skin care assembly according to an embodiment of the present disclosure.

[0089] As shown in FIGS. 18 to 20, the skin care assembly may further include a phototherapy lamp board 14, multiple phototherapy lamps 25 are arranged on a side of the phototherapy lamp board 14 close to the first cover 04, and an escape hole 29 is defined in a center of the phototherapy lamp board 14. The multiple phototherapy lamps 25 are arranged around the escape hole 29, and may exactly be covered by a projection of the cold compress component 01 in a direction perpendicular to the contacting surface 01a. The refrigeration component 02 and the cold-conducting layer 07 may pass through the escape hole 29 to be directly contacted with the cold compress component 01. The phototherapy lamp board 14 is arranged opposite to the heat sink 03, and a side of the phototherapy lamp board 14 without the phototherapy lamps 25 is abutted against and thermally coupled to the heat sink 03. The escape hole 29 has a position-limiting action on a first limiting portion 30 protruding from the heat sink 03, such that the phototherapy lamp board 14 and the heat sink 03 may be fixed relative to each other. The first limiting portion 30 is thermally coupled to the refrigeration component 02.

[0090] In some embodiments, the light-transmitting plate 13 may be arranged between the phototherapy lamp plate 14 and the first cover 04. A second through hole 24 is defined in a center of the light-transmitting plate 13 and opposite to the escape hole 29. Several light-transmitting portions 27 are defined around the second through hole 24. The light-transmitting portions 27 are defined corresponding to the phototherapy lamps 25, and may exactly be covered by the projection of the cold compress component 01 in the direction perpendicular to the contacting surface 01a. The light-transmitting portions 27 are covered with light-transmitting materials, and light emitted by the phototherapy lamps 25 may pass through the light-transmitting portions 27 and be mapped to the cold compress component 01. The refrigeration component 02 and the cold-conducting layer 07 may pass through the second through hole 24 to be directly contacted with the cold compress component 01. The second through hole 24 may have a position-limiting action on the refrigeration component 02. The phototherapy lamp board 14 defines multiple first fixing holes 26. The first fixing holes 26 are located opposite to third fixing holes 28d in the first cover 04, and configured to fix the phototherapy lamp board 14 relative to the first cover 04.

[0091] As shown in FIGS. 21 and 22, the phototherapy lamp board 14, the first cover 04, and the light-transmitting plate 13 may be relatively fixed in a way of snapping, latching, mortising, or thread-bolt connecting. A connection manner provided in the embodiment is the thread-bolt connecting. An inner wall of the first fixing hole 26 and an inner wall of the third fixing hole 28d also define threads corresponding to a first bolt 16. Several first bolts 16 may pass through the first fixing holes 26 and the third fixing holes 28d to have the phototherapy lamp board 14 and the first cover 04 relatively fixed.

[0092] In some embodiments, the light-transmitting plate 13 defines several second fixing holes 23, and the number of the second fixing holes 23 is the same as the number of the first fixing holes 26, the number of the third fixing holes 28 d, and the number of the first bolts 16. A side of the first cover 04 close to the light-transmitting plate 13 defines a sinking groove 31, and a shape and an outer diameter of the sinking groove 31 are approximately the same as those of the second fixing holes 23. That is, the second fixing holes 23 may have a position-limiting action on the sinking groove 31. The third fixing hole 28d penetrated through the sinking groove 31, such that the phototherapy lamp board 14, the light-transmitting board 13, and the first cover 04 may be relatively fixed by the first bolts 16 in a sequence as above.

[0093] In some embodiments, the phototherapy lamps 25 may be LED light-emitting lamp beads, and light emitted by the phototherapy lamps 25 exiting to the cold compress component 01 through the light-transmitting portions 27 may appear as red light, which may generate an effect of performing a phototherapy for the skin. Further, the phototherapy lamps 25 may also have other functions, such as a hair removal.

[0094] In some embodiments, the light-transmitting materials covered on the light-transmitting portions 27 may be mostly organic or inorganic materials with good light-transmitting performances, such as various optical plastics, silicate glasses, or the like.

[0095] In some embodiments, the light-transmitting plate 13 may not be disposed between the phototherapy lamp plate 134 and the first cover 04, and the light emitted by the phototherapy lamps 25 may be directly mapped to the cold compress component 01.

[0096] FIG. 15 is a schematic view of an assembly of the first cover, a second cover, and a heat sink of the skin care assembly

of the first opening 50 having the third radial size is closer to the cold-conducting layer 07 than a portion of the first opening 50 having the fourth radial size. The first radial size is less than the third radial size, the second radial size is less than the fourth radial size, and the second radial size is greater than the third radial size.

[00111] Specifically, a first stepped surface 21c is arranged between the portion having the first radial size and the portion having the second radial size of the cold compress component 01. A second stepped surface 22a is arranged between the portion having the third radial size and the portion having the fourth radial size of an inner side of the first opening 50 of the first cover 04. An outer side of the first opening 50 of the first cover 04 is arranged with the mounting platform.

[00112] The electrode 06 is mounted on the mounting platform on the outer side of the first cover 04, and is configured to maintain the skin. The refrigeration component 02, the cold-conducting layer 07, and the cold compress component 01 abut against the first end of the heat sink 03 in sequence, and are fixed between the first cover 04 and the first end of the heat sink 03 through the second stepped surface 22a in the inner side of the first cover 04 abutting against and being attached to the first stepped surface 21c of the cold compress component 01. In addition, the contacting surface 01a of the cold compress component 01 passes through the first opening 50 of the first cover 04 and is located on the outer side of the first cover 04, configured to assist the electrode 06 to maintain the skin.

[00113] As shown in FIGS. 4 to 7, in order to better fix the cold compress component 01 and prevent the outside water and oil from infiltrating the machine body, a first sealing component 33 for sealing and absorbing the shock may be arranged between the first opening 50 of the first cover 04 and the cold compress component 01. The first sealing component 33 is arranged between the first stepped surface 21c and the second stepped surface 22a. When the cold compress component 01 abuts against the first opening 50 of the first cover 04, the first sealing component 33may be deformed by a force, such that an inside of the machine body of the skin care assembly 1 may be isolated from an external environment. The first sealing component 33 may serve as a buffer when the machine body is bumped or dropped.

[00114] In some embodiments, a shape of the first sealing component 33 may be adapted to a shape of the first stepped surface 21c.

[00115] In some embodiments, other corresponding fixed facilities may also be arranged between the first sealing component 33, the cold compress component 01, and the first cover 04 to prevent the first sealing component 33 from being shifted.

[00116] In some embodiments, the first sealing component 33 may be made of the material such as the silica gel, etc., which may be elastically deformed and have the greater friction coefficient.

[00117] FIG. 10 is a structural schematic view of the first cover and an inner housing of the skin care assembly in a direction according to some embodiments the present disclosure. FIG. 11 is a structural schematic view of the first cover and the inner housing of the skin care assembly in another direction according to some embodiments the present disclosure.

[00118] As shown in FIGS. 10 and 11, the skin care assembly 1 provided in some embodiments of the present disclosure may further include the inner housing 11 and an outer housing 37. The skin care assembly 1 may be at least partially arranged in the inner housing 11. For example, the heat sink 03 is partially arranged in the inner housing 11 and fixed relative to the inner housing 11, and the inner housing 11 is partially arranged in an inner side of the outer housing 37. A second fastener 37b is fixed on the outer housing 37, and a first fastener 04d is fixed on the first cover 04. The second fastener 37b is snapped to the first fastener 04d. The first fastener 04d is fixed on the first cover 04, and the second fastener 37b is fixed on the outer housing 37, such that it may be more convenient for the skin care assembly 1 to be mounted and aligned and have an accessory replaced when the skin care assembly 1 is assembled.

[00119] In some embodiments, a part of the second fastener 37b is arranged on a side of the outer housing 37 close to a thermally coupling surface of the heat sink 03, i.e., a side where a cavity opening of an empty cavity for accommodating the heat sink 03 of the outer housing 37 is located, and close to a side wall 04c of the first cover 04. The first cover 04 includes the side wall 04c corresponding to the outer housing 37, and the first fastener 04d is arranged on two side walls 04c of the first cover 04.

[00120] In some embodiments, the first fastener 04d~~b~~ may define a bayonet, an edge of the bayonet may be arranged with an inclined surface 04e. The second fastener 37b may include a hook. Under a guide of the inclined surface 04e, the hook of the second fastener 37b may enter into the bayonet of the first fastener 04d~~b~~ to complete a snap connection. In this way, the side walls 04c of the first cover 04 may be assembled with the outer housing 37.

of the heat sink 01 is exposed to the second receiving cavity through the second opening 51, so as to be thermally coupled to the refrigeration component 02.

[00131] In some embodiments, the second cover 08 is embedded in the first receiving cavity of the first cover 04 and fixed to the first cover 04. The cold compress component 01 is fixed between the first panel portion 48 of the first cover 04 and the second panel portion 49 of the second cover 08.

[00132] In some embodiments, the skin care assembly 1 in some embodiments of the present disclosure further includes a first mounting column 41 and defines a first mounting hole 42a. The first mounting column 41 is arranged in the second receiving cavity of the second cover 08. A mounting ear 42 extends radially from a side edge of the heat sink 03, the first mounting hole 42a is defined in the mounting ear 42. The number of the mounting ear 42 corresponds to the number of the first mounting column 41. An end of the heat sink 03 thermally coupled to the refrigeration component 02 is partially embedded in the second receiving cavity of the second cover 08 and fixed to the second cover 08.

[00133] In some embodiments, an end of the first mounting column 41 close to the first mounting hole 42a defines a threaded hole, and a first stud penetrates into the threaded hole at the end of the first mounting column 41 from the first mounting hole 42a of the mounting ear 42 to screw the heat sink 03 to the second cover 08.

[00134] In some embodiments, the first stud passes through the first mounting hole 42a and be connected to the threaded hole at the end of the first mounting column 41 from a side of the mounting ear 42 facing away from the second cover 08.

[00135] In some embodiments, the skin care assembly 1 in some embodiments of the present disclosure further defines an accommodating cavity 53 and an opening 52. The accommodating cavity 53 is defined in the inner side of the inner housing ~~04~~11, and extends from the head portion of the inner housing 11 to the tail of the inner housing 04. The opening 52 is defined at an end of the accommodating cavity 53 close to the refrigeration component 02. The heat sink 03 is partially embedded in the accommodating cavity 53 through the opening 52. The end of the heat sink 03 thermally coupled to the refrigeration component 02 is partially exposed to an outer side of the accommodating cavity 53 through the opening 52, and a portion of the heat sink 03 partially exposed to the outer side of the accommodating cavity 53 through the opening 52 is partially embedded in the first receiving cavity of the first cover 04.

[00136] In some embodiments, the skin care assembly 1 in some embodiments of the present disclosure further includes a second mounting column 38, and defines a first through hole 39 and a second mounting hole 40. The second mounting column 38 is arranged in the first receiving cavity of the first cover 04, the first through hole 39 corresponding to the second mounting column 38 is defined in the second receiving cavity of the second cover 08, and the second mounting hole 40 corresponding to the second mounting column 38 is defined in the inner housing 11.

[00137] In some embodiments, a diameter of the first through hole 39 is close to and slightly greater than a diameter of the second mounting column 38.

[00138] In some embodiments, the second mounting column 38 may be arranged in the first receiving cavity of the first cover 04 at a transiting position between the first panel portion 48 and the first side wall 46. The first through hole 39 may be arranged in a transiting position between the second panel portion 49 and the second side wall 47, so as to cooperate with the second mounting hole 40. The second mounting hole 40 is defined in a wall of the accommodating cavity of the inner housing 11 and close to the opening 52.

[00139] In some embodiments, a mounting rib 40a is arranged in the accommodating cavity 53 of the inner housing 11 and extends from the opening 52 to a tail of the accommodating cavity 53. A mounting groove 40b recessed along a direction towards the accommodating cavity 53 is defined in an outer side of the inner housing at a position corresponding to the mounting rib 40a. Due to existence of the mounting rib 40a and the mounting groove 40b, the second mounting hole 40 is close to a top end of the second mounting column 38 and exposed to an end of the mounting rib 40a close to the opening 52, and a bottom of the second mounting hole 40 is exposed to an end of the mounting groove 40b close to the opening 52.

[00140] In some embodiments, an end of the second mounting column 38 close to the second mounting hole 40 defines a threaded hole, and a second stud may penetrate into a top end of the second mounting hole 40 and pass out a bottom end of the second mounting hole 40, and be screwed to the threaded hole in the end of the second mounting column 38 passing through the first through hole 39, such that the first cover 04 and the inner housing 11 are fixed.

[00141] As shown in FIG. 21, the skin care assembly 1 in some embodiments of the present disclosure further includes a third mounting column 43, and defines a third mounting hole 44. The third mounting column 43 is arranged in the first receiving cavity of the first cover 04, and the third mounting hole 44 corresponding to the third mounting column 43 is defined in the second panel portion 49 of the second cover 08. An end of the third mounting column 43 close to the third mounting hole 44 defines a threaded hole. A third stud may pass through the third mounting hole 44 and be screwed to the threaded hole in the end of the third mounting column 43, such that the second cover 08 may be fixed to the first receiving cavity of the first cover 04. In this way, the cold compress component 01 may be fixed to the first receiving cavity of the first cover 04, and located between the first cover 04 and the second cover 08.

[00142] In some embodiments, the third mounting hole 44 penetrates through the second panel portion 49 and fluidly communicate to the second receiving cavity of the second cover 08. The conducting surface of the cold compress component 01 may be exposed through the second through hole 24 and thermally coupled to the refrigeration component 02.

[00143] FIG. 26 is a structural schematic view of a second sealing component and the second cover of the skin care assembly according to an embodiment of the present disclosure. As shown in FIG. 26, the skin care assembly 1 in some embodiments of the present disclosure may further include a second sealing component 45 arranged on the second cover 08. The second sealing component 45 is attached to a surface of the transiting portion between the second panel portion 49 and the second side wall 47 of the second cover 08 and tightly attached to the second cover 08. When the second cover 08 and the first cover 04 are assembled, the second sealing component 45 may be deformed due to being extruded by the first cover 04, such that a gap between the second cover 08 and the first receiving cavity of the first cover 04 may be blocked, preventing water and oil from entering into the second receiving cavity of the second cover 08 and affecting a stability of an interior circuit.

[00144] In some embodiments, a material of the second sealing component 45 may be an elastic material such as the silica gel, a latex, or the like, and may also be a poured liquid glue.

[00145] In some embodiments, the skin care assembly 1 further includes the ~~first~~second cover 0~~8~~4, at least partially located between the first cover 04 and the heat sink 03. The second cover 08 is fixed to the heat sink 03, and the cover 04 is fixed to the second cover 08. The cold compress component 01 tightly presses the cold-conducting layer 07 and the refrigeration component 02 against the heat sink 03 in a first direction.

[00146] The second cover 08 is sleeved in the inner side of the first cover 04 and is at least partially located between the first cover 04 and the heat sink 03, and configured to limit a shit of the heat sink 03 in the first direction. The first direction mentioned herein is a direction perpendicular to both the first cover 04 and the second cover 08. Four first positioning holes corresponding to the first mounting holes and the second mounting holes are defined in the second cover 08. Four positioning columns 04a are defined in the inner side of the first cover 04. The first mounting holes 04b of the first cover 04 are defined in the four positioning columns 04a. During mounting, the four positioning columns on the first cover 04 pass through the first positioning holes in the second cover 08 and abut against the second positioning hole in the heat sink 03, and are finally fixed by means of screws. In this way, the second cover 08 may be fixed between the first cover 04 and the heat sink 03. The cold compress component 01 which has been fixed on the first cover 04 passes through the first cover 04 and presses the cold-conducting layer 07 and the refrigeration component 02 tightly to the heat sink 03 along the direction perpendicular to both the first cover 04 and the second cover 08.

[00147] In some embodiments, the second cover body 08 further defines a limiting hole. The limiting hole is located at the opening of the first cover 04 and communicated fluidly to the opening. A part of the refrigeration component 02 is arranged in the limiting hole, and an edge of the refrigeration component 02 is 0.5-1 mm away from an edge of the limiting hole. A region of the heat sink 03 corresponding to the refrigeration component 02 defines a groove. The groove corresponds to the limiting hole. A part of the refrigeration component 02 is embedded in the groove and the other part of the refrigeration component 02 is located in the limiting hole. A ration of an area of the limiting hole to an area of the opening is between 0.8 and 1.2.

[00148] Specifically, the second cover 08 defines the limiting hole corresponding to the opening of the first cover 04 in the first direction. After the skin care assembly 1 is assembled, both the limiting hole and the opening of the first cover 04 are in the first direction and fluidly communicated to each other, such that the refrigeration component 02 may be thermally coupled to the cold compress component 01 to reduce the temperature of the cold compress component 01. In some embodiments, the groove corresponding to the refrigeration component 02 is defined in an end of the heat sink 03, and the part of the refrigeration component

What is claimed is:

1. A skin care assembly, comprising:

a cold compress component, comprising:

a contacting surface, configured to directly contact a skin; and

a conducting surface;

a refrigeration component, a refrigeration side of the refrigeration component being thermally coupled to the conducting surface of the cold compress component to reduce a temperature of the cold compress component;

a heat sink, thermally coupled to a heat-generating side of the refrigeration component, to dissipate heat from the refrigeration component;

an electrode, configured to discharge for the skin, and fixed relative to the cold compress component; and

a first cover, configured to fix the cold compress component and the refrigeration component to the heat sink, defining a first opening, and the first opening having a size along at least one radial direction less than a size of the cold compress component along the at least one radial direction.

2. The skin care assembly according to claim 1, comprising:

an outer housing, fixed relative to the heat sink;

a first fastener, located on the first cover; and

a second fastener, located on the outer housing, and snapped to the first fastener to connect the first cover to the outer housing.

3. The skin care assembly according to claim 2, wherein the first cover comprises two side walls corresponding to the outer housing, the first fastener is arranged on the two side walls, the second fastener is located at an end of an inner side of the outer housing close to the first cover, and the second fastener is snapped to the first fastener.

4. The skin care assembly according to claim 3, wherein the first fastener comprises one of a hook and a bayonet, and the second fastener comprises the other of the hook and the bayonet;

wherein an edge of the bayonet is arranged with an inclined surface configured to guide the hook to enter into the bayonet and complete a snap connection.

5. The skin care assembly according to claim 2, comprising:

an inner housing, defining an accommodating cavity which defines an opening, the heat sink being at least partially arranged in the accommodating cavity, and an end of the heat sink located at a side where the opening is located being thermally coupled to the heat-generating side of the refrigeration component, and the inner housing comprising two side surfaces;

a third fastener, located in the inner housing; and

a fourth fastener, located on the outer housing and snapped to the third fastener to fix the outer housing to the inner housing.

6. The skin care assembly according to claim 5, wherein third fasteners are arranged on edges of the two side surfaces of the inner housing, fourth fasteners are arranged on positions corresponding to the third fasteners of an inner side of the outer housing, and the fourth fasteners are snapped to the third fasteners.

7. The skin care assembly according to claim 6, wherein each of the third fasteners comprises one of a hook and a bayonet, and each of the fourth fastener comprises the other of the hook and the bayonet;

wherein an edge of the bayonet is arranged with an inclined surface configured to guide the hook to enter into the bayonet and complete a snap connection.

8. The skin care assembly according to claim 1, comprising:

the first cover, comprising:

a first panel portion, defining the first opening; and

a first side wall, extending away from a side edge of the first panel portion, such that a first receiving cavity is defined; and

a second cover, comprising:

a second panel portion, defining a second opening; and

a second side wall, extending away from a side edge of the second panel portion, such that a second receiving cavity is defined;

wherein the second cover is embedded in the first receiving cavity of the first cover and fixed to the first cover, and the cold compress component is located between the first panel portion and the second panel portion.

9. The skin care assembly according to claim 8, wherein an end of the heat sink thermally coupled to the refrigeration component is partially embedded in the second receiving cavity of the second cover and fixed to the second cover.

10. The skin care assembly according to claim 9, wherein a first mounting column is arranged in the second receiving cavity of the second cover, and a threaded hole is defined at an end of the first mounting column;

wherein the skin care assembly comprises a first stud, a first mounting hole corresponding to the first mounting column is defined in the heat sink, and the first stud is configured to pass through the first mounting hole and be connected to the threaded hole at the end of the first mounting column.

11. The skin care assembly according to claim 10, wherein a mounting ear extends radially from a side edge of the heat sink, the first mounting hole is defined in the mounting ear, and the first stud is configured to pass through the first mounting hole from a side of the mounting ear facing away from the second cover and be connected to the threaded hole at the end of the first mounting column.

12. The skin care assembly according to claim 8, comprising:

an inner housing, defining an accommodating cavity which defines an opening, the heat sink being at least partially arranged in the accommodating cavity, and an end of the heat sink located at a side where the opening is located being thermally coupled to the heat-generating side of the refrigeration component, and the inner housing comprising two side surfaces.

13. The skin care assembly according to claim 12, wherein a second mounting column is arranged in the first receiving cavity of the first cover, and a threaded hole is defined at an end of the second mounting column;

wherein the skin care assembly comprises a second stud, a first through hole corresponding to the second mounting column is defined in the second receiving cavity of the second cover, and the second stud is configured to pass through the first through hole and enter into the second receiving cavity; the inner housing defines a second mounting hole corresponding to the second mounting column, and the second stud is configured to pass through the second mounting hole and be connected to the threaded hole at the end of the second mounting column.

14. The skin care assembly according to claim 13, wherein an edge of each of the two side surfaces of the inner housing defines a mounting groove extending along an axis direction of the inner housing, and the second mounting hole penetrates a side wall of the mounting groove adjacent to the opening;

wherein the skin care assembly comprises the second stud, and the second stud is configured to pass through the second mounting hole from the mounting groove and be connected to the threaded hole at the end of the second mounting column.

15. The skin care assembly according to claim 8, wherein a third mounting column is arranged in the first receiving cavity of the first cover, and a threaded hole is defined at an end of the third mounting column;

wherein the skin care assembly comprises a third stud, a third mounting hole corresponding to the third mounting column is defined in the second panel portion of the second cover, and the third stud is configured to pass through the third mounting hole from the second receiving cavity and be connected to the threaded hole at the end of the third mounting column.

16. The skin care assembly according to claim 1, wherein the heat sink comprises a second cover and a heat-dissipating body, the second cover is arranged between the heat-dissipating body and the first cover, and the second cover is fixed between the heat-dissipating body and the first cover.

17. The skin care assembly according to claim 16, comprising:

a heat pipe, a section of the heat pipe being bent to form a bent portion, the bent portion abutting against an end of the heat-dissipating body close to the second cover, and the other end of the heat pipe extending along a direction away from the refrigeration component to an ending end of the heat-dissipating body and being thermally coupled to the heat-dissipating body;

wherein the heat pipe has a hollow and closed structure, with liquid filled; and the heat pipe is not filled up with the liquid.

18. The skin care assembly according to claim 17, wherein the heat-dissipating body defines an escape groove, and the heat pipe is arranged along an inner wall of the escape groove and welded to the inner wall of the escape groove.

19. The skin care assembly according to claim 18, comprising:

a mounting plate, mounted at an opening of the escape groove and extending to a tail of the skin care assembly; and

a charging port, arranged at an ending end of the mounting plate and exposed out of the skin care assembly.

20. The skin care assembly according to claim 16, wherein the second cover further defines a limiting hole, a position of the limiting hole corresponds to a position of the opening and is communicated fluidly to the opening, and an edge of the refrigeration component is 0.5 to 1 mm away from an edge of the limiting hole;

wherein a contacting portion is arranged in a region of the heat-dissipating body corresponding to the refrigeration component, the contacting portion corresponds to the limiting hole, the heat-generating side of the refrigeration component is thermally coupled to the contacting portion, and the other part is located in the limiting hole, and a ratio of an area of the limiting hole to an area of the opening is between 0.8 and 1.2.

21. The skin care assembly according to claim 20, comprising:

a lead wire, connected to the refrigeration component;

wherein the second cover defines a wire groove, the lead wire is partially accommodated in the wire groove, and the wire groove is defined along the edge of the limiting hole.

22. The skin care assembly according to claim 16, comprising:

a phototherapy lamp board, an escape hole is defined in a center of the phototherapy lamp board, and the phototherapy lamp board is arranged around the refrigeration component through the escape hole;

wherein the second cover partially covers a side of the phototherapy lamp board facing towards the cold compress component, a portion of the phototherapy lamp board covered by the second cover is a light-guiding body, and light emitted by the phototherapy lamp board is capable of passing through the light-guiding body to enter into the cold compress component, and exiting out.

23. The skin care assembly according to claim 16, wherein the heat-dissipating body is made of aluminum by means of integral molding; a material of the cold compress component is a sapphire;

wherein a side of the heat-dissipating body has a heat-dissipating fin structure.

24. The skin care assembly according to claim 1, wherein a phototherapy lamp is arranged opposite to the cold compress component to emit light to an outer side of the cold compress component.

25. The skin care assembly according to claim 24, comprising:

a phototherapy lamp board, comprising a plurality of phototherapy lamps, wherein the phototherapy lamp board is located between the first cover and the heat sink.

26. The skin care assembly according to claim 25, comprising:

a light-transmitting plate, arranged between the first cover and the phototherapy lamp board, and comprising several light-transmitting portions, and the light-transmitting portions being arranged corresponding to the phototherapy lamps; and

a screw;

wherein the first cover defines a sinking groove, a bottom of the sinking groove, the light-transmitting plate, and the phototherapy lamp board all define fixing holes; a mounting column protrudes from a side of the electrode facing towards the phototherapy lamp board, the mounting column is embedded in the sinking groove, and an end of the mounting column defines a threaded hole; the screw passes through the fixing holes of the phototherapy lamp board, the fixing holes of the light-transmitting plate from a side of the phototherapy lamp board facing away from the light-transmitting plate, and screwed into the fixing holes of the sinking groove.

27. The skin care assembly according to claim 1, wherein the cold compress component is located in the first opening, the cold compress component has a first radial size and a second radial size different from the first radial size at positions corresponding to different thicknesses, and the first opening has a third radial size and a fourth radial size different from the third radial size at positions corresponding to different depths; a portion of the cold compress component having the first radial size is closer to the refrigeration component than a portion of the cold compress component having the second radial size, and a portion of the first opening having the third radial size is closer to the refrigeration component than a portion of the first opening portion having the fourth radial size, and the first radial size is less than the third radial size, the second radial size is less than the fourth radial size,

the second radial size is greater than the third radial size, and the fourth radial size of the first opening is less than the first radial size of the cold compress component.

28. The skin care assembly according to claim 27, wherein the first opening defines a second stepped surface, a side edge of the cold compress component defines a first stepped surface, and the second stepped surface abuts against the first stepped surface;

wherein the first stepped surface is located between the portion of the cold compress component having the first radial size and the portion of the cold compress component having the second radial size, and the second stepped surface is located between the portion of the first opening having the third radial size and the portion of the first opening having the fourth radial size.

29. The skin care assembly according to claim 28, comprising:

a second cover, comprising:

a second panel portion, defining a second opening; and

a second side wall, extending from a side edge of the second panel portion to define a second receiving cavity;

a first sealing component, surrounding an outer circumference of the cold compress component corresponding to the second radial size, and abutting against the first stepped surface and the second stepped surface;

a second sealing component, surrounding on an outer side of the second side wall of the second cover;

wherein the first cover comprises:

a first panel portion, defining the first opening; and

a first side wall, extending from a side edge of the first panel portion to define a first receiving cavity;

wherein the second cover is embedded into the first receiving cavity of the first cover and fixed to the first cover, a part of the cold compress component is located between the first panel portion and the second panel portion, and the second sealing component abuts against an inner side of the first side wall of the first cover.

30. The skin care assembly according to claim 1, wherein the electrode comprises:

a body portion, configured to directly contact the skin; and

a fixing portion, connected to the body portion, and the electrode being fixed to the first cover through the fixing portion.

31. The skin care assembly according to claim 30, wherein the fixing portion comprises at least one mounting column, the first cover defines at least one fixing hole, and the at least one mounting column is mounted in the at least one fixing hole to fix the electrode to the first cover;

wherein a height of the electrode protruding relative to the first cover is between 0mm-20mm.

32. The skin care assembly according to claim 1, wherein electrodes are arranged on an edge of the opening, the number of the electrodes is at least four, and the at least four electrodes are arranged on an outer circumference of the cold compress component and spaced from each other.

33. The skin care assembly according to claim 1, wherein the refrigeration component is located between the heat sink and the cold compress component, and a sandwich structure comprising the heat sink, the refrigeration component, and the cold compress component is formed.

34. The skin care assembly according to claim 1, wherein the opening of the first cover is defined corresponding to the cold compress component, and an edge of the cold compress component is pressed towards the heat sink through an edge of the opening, so as to fix the cold compress component and the refrigeration component on the heat sink.

35. The skin care assembly according to claim 1, wherein the contacting surface of the cold compress component has an area between 350 square millimeters and 450 square millimeters, a thickness between 2 millimeters and 5 millimeters, and a ratio of the area of the contacting surface of the cold compress component to the thickness of the contacting surface of the cold compress component is between 88:1 to 225:1.

36. The skin care assembly according to claim 1, wherein a total power when the electrode is discharged is between 5 watts and 20 watts.

37. The skin care assembly according to claim 1, wherein the heat sink extends from a head portion of the skin care assembly to a tail of the skin care assembly, the heat sink is located at an ending end of the tail of the skin care assembly and spaced from the tail by a gap, and a size of the gap is less than one third of a length of the skin care assembly.

38. The skin care assembly according to claim 1, comprising:

an airflow driver, arranged opposite to the heat sink, and configured to drive airflow near the heat sink to flow.

39. The skin care assembly according to claim 1, wherein a tail of the skin care assembly defines an air outlet, and a tail of the heat sink is defined corresponding to the air outlet.

40. The skin care assembly according to claim 1, comprising:

an operating member, comprising the cold compress component and the refrigeration component, located at a head portion of the skin care assembly;

a mounting bracket, comprising:

a first mounting position; and

a second mounting position; the operating member being fixed to the mounting bracket through the first mounting position;

a circuit board, fixed to the mounting bracket through the second mounting position;

wherein the mounting bracket extends from the head portion of the skin care assembly to a tail of the skin care assembly; the operating member cools down the skin or a surface layer of an adjacent tissue of the skin, and a depth of action of an electricity, a magnetism, or an electromagnetic emitted by the electrode on the skin is greater than that on the surface layer, and at the same moment, an area of the contacting surface is greater than an area where the electrode acts on the skin;

wherein an operating power of the refrigeration component satisfies a condition of a temperature of the surface layer being reduced to a range between 15°C and 45°C.

1. A skin care assembly, comprising:

a first cover, defining a first opening;

an electrode, fixed on the first cover and configured to discharge for skin; and

a cold compress component, received in the first opening and configured to cool the skin.

2. The skin care assembly according to claim 1, wherein

the electrode is mounted on one side of the first cover, a first stepped surface is defined on an end of the cold compress component away from the electrode, a second stepped surface matched with the first stepped surface is defined on an end of a wall of the first opening away from the electrode, and the first stepped surface and the second stepped surface abut with each other.

3. The skin care assembly according to claim 1, wherein the quantity of the electrode is multiple;

wherein the multiple electrodes are arranged at intervals around the cold compress component or at a side of the cold compress component, or the cold compress component is arranged around the multiple electrodes.

4. The skin care assembly according to claim 1, further comprising a refrigeration component arranged on a side of the cold compress component away from the electrode and configured to cool the cold compress assembly.

5. The skin care assembly according to claim 4, further comprising a cold-conducting layer arranged between the cold compress component and the refrigeration component.

6. The skin care assembly according to claim 1, wherein an outer surface of the electrode is flush with or protruded from an outer surface of the cold compress component.

7. The skin care assembly according to claim 6, wherein both the outer surfaces of the electrode and the cold compress component are flush with or protruded from an outer surface of the first cover.

8. The skin care assembly according to claim 4, further comprising a heat sink, wherein the heat sink comprises a second cover and a heat-dissipating body connected with the second cover, the second cover is arranged between the first cover and the heat-dissipating body, the first cover and the second cover are fixed

with each other, the second cover is defined with a limiting hole corresponding to and communicating with the first opening, and the refrigeration component is partially received in the limiting hole.

9. The skin care assembly according to claim 8, wherein an end of the heat-dissipating body defines a contacting portion, the contacting portion is partially received in the limiting hole and contacted a side of the refrigeration component away from the cold compress component, and the other end of the heat-dissipating body extends in a direction away from the refrigeration component.

10. The skin care assembly according to claim 9, wherein an escape groove is defined in a side of the heat-dissipating body, a heat pipe is received in the escape groove, and the heat pipe is filled with liquid.

11. The skin care assembly according to claim 10, wherein an end of the heat pipe is bent and is abutted with an opposite surface of the contacting portion of the heat-dissipating body, and the other end of the heat pipe extends to a tail end of the heat-dissipating body.

12. The skin care assembly according to claim 9, wherein a mounting ear is arranged on an end of the heat-dissipating body defining the contacting portion, the mounting ear is defined with a first mounting hole, a first mounting column is arranged on a side of the second cover facing the heat-dissipating body, a threaded hole is defined in the first mounting column, and the mounting ear is threadedly connected with the first mounting column by a first stud.

13. The skin care assembly according to claim 8, wherein the first cover defines a first receiving cavity, the second cover is inserted in the first receiving cavity, and the cold compress component is arranged between the first cover and the second cover.

14. The skin care assembly according to claim 13, wherein the first cover comprises a first panel portion and a first side wall connected to the circumference of the first panel portion, the first panel portion and the first side wall cooperatively defines the first receiving cavity, a third mounting column is arranged in the first receiving cavity of the first cover, a threaded hole is defined in the third mounting column, the second cover comprises a second panel portion, the second cover defines a third mounting hole corresponding to the third mounting column, the first cover and the second cover are connected by a third stud threadedly connecting with the third mounting column and the third mounting hole, and the cold compress component is arranged between the first cover and the second cover.

15. The skin care assembly according to claim 2, wherein a first sealing component is arranged between the first stepped surface and the second stepped surface.

16. The skin care assembly according to claim 14, wherein the second cover further comprises a second side wall connected with the circumference of the second panel portion, the first side wall is abutted with the second side wall, and a second sealing component is arranged between the first side wall and the second side wall.

17. The skin care assembly according to claim 4, further comprising a phototherapy lamp board located on a side of the cold compress component opposite to the electrode, wherein a plurality of phototherapy lamps are arranged on the phototherapy lamp board, and the phototherapy lamps emit light to the outer side of the cold compress component.

18. The skin care assembly according to claim 17, further comprising a light-transmitting plate arranged between the first cover and the phototherapy lamp board, wherein a plurality of light-transmitting portions are

defined on the light-transmitting plate corresponding to the plurality of phototherapy lamps, the electrode, the light-transmitting plate, and the phototherapy lamp board are connected with each other.

19. The skin care assembly according to claim 10, wherein

the skin care assembly further comprises a mounting plate located at an opening side of the escape groove and extended to the tail end of the skin care assembly, and the mounting plate is provided with a circuit board; or

the skin care assembly further comprises a circuit board located at the opening side of the escape groove and extended to the tail end of the skin care assembly.

20. A skin care assembly, comprising:

an operating member, comprising:

an electrode, configured to discharge for skin; and

a cold compress component, configured to cool the skin during the electrode discharging for skin.