

MESSAGE DEVICE

TECHNICAL FIELD

5 The present application relates to the technical field of massage, and more particularly to a massage device.

BACKGROUND

10 In present massage devices, a mounting opening is arranged on the body of the massage device, and a massage head assembly is extended from the mounting opening. Since the massage head assembly is to be oscillated or vibrated during massage, a gap is reserved between the mounting opening and the massage head assembly so as to ensure that the massage head assembly has enough room for movement. Although the outer cover of the massage head is generally provided with a cloth cover, the gap still exists, as the material of the cloth cover is soft, and the finger may be caught during operation, which poses a safety hazard.

15

SUMMARY

Technical Problem

The purpose of the embodiment of the present disclosure, in one aspect, is to provide a massage device to solve the technical problem of pinching fingers existed in prior arts.

20 Technical Solutions

To solve the above technical problem, technical solutions adopted by the embodiment of the present disclosure are provided:

25 In one aspect, it is provided that a massage device includes a housing, two massage head assemblies extending from the housing and disposed oppositely, and a drive assembly which is disposed in the housing to drive the two massage head assemblies. The two massage head assemblies are relatively oscillated under a driving action of the driving assembly to form a kneading massage. When the two massage head assemblies oscillate toward each other, an inner side of each massage head assembly close to the other massage head assembly form an angle α with a surface of the housing, and the angle α is in a range of $\alpha \leq 54^\circ$. When the two
30 massage head assemblies are oscillated away from each other, an outer side of each massage head assembly away from the other massage head assembly form an angle β with the surface of the housing, and the angle β is in a range of $\beta \geq 23^\circ$.

Beneficial Effect

Compared to the prior art, the massage device provided by the embodiment of the present disclosure has beneficial effects that: as the massage head assembly is relatively oscillated under a driving action of the driving assembly, during operation, the two massage head assemblies move close to or away from each other, there are angles between the inner or outer side of each massage head assembly and the housing. When the two massage head assemblies move close to each other, the angle α between the inner side surface of the massage head assembly and the surface of the housing is the smallest, and when the minimum value of α is in a range of $\alpha \leq 54^\circ$, the angle α may be too small that the finger can't reach in, thus the finger won't be pinched, meanwhile, the angle between the outer side surface of the massage head assembly and the surface of the housing is the largest so that there is no pinching problem. When the two massage head assemblies move away from each other, the angle β between the outer side surface of the massage head assembly and the surface of the housing is the smallest, and when the minimum value of β is in a range of $\beta \geq 23^\circ$, the gap between the outer side and the housing is sufficiently large, even if a finger is inserted, there is no chance for the finger to be squeezed, thereby fundamentally avoiding the clamping and injuring fingers during massage.

BRIEF DESCRIPTION OF THE DRAWINGS

In order to more clearly illustrate the technical solutions in embodiments of the present disclosure, the drawings required to be used in the embodiment or in the description of the prior art will be briefly described below. It is obvious that the drawings in the following description are just some embodiments of the present disclosure, those skilled in the art can also obtain other drawings based on these drawings without paying any creative effort.

FIG. 1 is a side view of a neck massage device according to an embodiment of the present disclosure;

FIG. 2 is another side view of a neck massage device according to an embodiment of the present disclosure;

FIG. 3 is a schematic structural view of an inner portion of a housing of a neck massage device according to an embodiment of the present disclosure;

FIG. 4 is a schematic structural view showing the installation of a massage head assembly and a driving assembly in a neck massage device according to an embodiment of the present disclosure;

FIG. 5 is a partially exploded perspective view of a neck massage device according to an embodiment of the present disclosure;

FIG. 6 is a partially exploded perspective view of the auxiliary cover and the main body of the neck massage device according to an embodiment of the present disclosure;

5 FIG. 7 is a schematic structural view of a massage head assembly in a neck massage device when placed vertically according to an embodiment of the present disclosure;

FIG. 8 is a side view of a massage head assembly in a neck massage device according to an embodiment of the present disclosure;

10 FIG. 9 is an exploded perspective view of a plastic bottom plate and a silicone bottom cover according to an embodiment of the present disclosure;

FIG. 10 is a schematic structural view of a flexible heating piece in a heating massage head according to an embodiment of the present disclosure; and

FIG. 11 is a schematic structural view of a pressing post in a heating massage head according to an embodiment of the present disclosure.

15 List of the reference characters:

In the figures: 10-housing; 11-guide seat; 12-guide groove; 13-positioning post; 14-mounting port; 15-first spherical surface; 20-massage head assembly; 21-driving bracket; 22-massage head holder; 221-first massage head; 222-second massage head; 223-third massage head; 224-fourth massage head; 225-fifth massage head; 226-plastic bottom plate; 227-plastic protrusion; 20 228-silicone bottom cover; 229-silicone massage contact; 23-massage head; 24-heating massage head; 241-massage contact; 242-flexible heating piece; 243-wire; 244-pressing post; 245-bottom plate; 246-inner heating portion; 247-outer heating portion; 248-interval; 26-inner side; 25-outer side; 30-driving assembly; 31-driving motor; 32-eccentric wheel assembly; 321-eccentric wheel housing; 322-cover body; 33-transmission shaft; 34-first gear; 35-second gear; 40-auxiliary cover; 25 41-second spherical surface; 42-through hole; 50-soft rubber cover; 51-annular projection; 60-positioning ring; 70-silicone protective cover.

DESCRIPTION OF THE EMBODIMENTS

30 The present disclosure will be further described in detail below with reference to the accompanying drawings and embodiments. It is understood that the specific embodiments described herein are merely illustrative of the invention and are not intended to limit the invention.

It should be noted that when a component is referred to as being “fixed” or “provided” another component, it may be positioned on the other component directly or indirectly. When a component is referred to as being “connected to/with” another component, it may be connected to/with the other component directly or indirectly connected to the other component.

It should be noted that the same or similar reference numerals shown in the drawings of the embodiments of the present disclosure denote same or similar components. In the description of the present disclosure, it is to be understood that the orientations or positional relationship of the terms “upper”, “lower”, “left”, “right” and the like are based on the orientation or positional relationship shown in the drawings, and merely for convenience of description of the present disclosure and simplifying the description, but does not intend to indicate or imply that the device or component referred to must have a specific orientation or be constructed and operated in the specific orientation. Therefore, the terms used to describe the positional relationship in the drawings are for illustrative purposes only, and are not to be construed as limiting the present disclosure. For persons skilled in the art, the specific meaning of the above terms can be understood according to the specific situation.

Moreover, the terms “first” and “second” are used for descriptive purposes only and are not to be construed as indicating or implying a relative importance or implicitly indicating the number of technical features indicated. Thus, features defined with “first” or “second” may include one or more of the features either explicitly or implicitly. In the description of the present disclosure, the meaning of “a plurality of” is two or more unless otherwise specified.

In order to explain the technical solution of the present disclosure, the implementation of a massage device provided by the present disclosure will be described in detail below with reference to the specific drawings.

Referring to FIG. 1 to FIG. 2, an embodiment of the present disclosure takes a neck massage device as an example to describe the structure of the massage device. It should be understood that the massage device structure is not limited to the neck massage device. Specifically, the neck massage device includes a housing 10, two massage head assemblies 20 extending from the housing 10 and disposed oppositely, and a driving assembly 30 disposed in the housing 10 to drive the movement of the two massage head assemblies 20. The two massage head assembly 20 is relatively oscillated under a driving action of the drive assembly 30 to form a kneading massage. When the two massage head assemblies 20 oscillate toward each other, the inner side 26 of each massage head assembly 20 close to the other massage head assembly 20 form an angle

α with the surface of the housing 10, and the angle α is in a range of $\alpha \leq 54^\circ$. When the two massage head assemblies 20 are oscillated away from each other, the outer side 25 of each massage head assembly 20 away from the other massage head assembly 20 form an angle β with the surface of the housing 10, and the angle β is in a range of $\beta \geq 23^\circ$.

5 In this embodiment, since the massaging head assembly 20 is relatively oscillated under the driving action of the driving assembly 30, the two massage head assemblies 20 are close to or away from each other, in the process, the inner side 26 and the outer side 25 of each massaging head assembly 20 respectively form an angle with the housing 10. As shown in FIG. 1, when the two massage head assemblies 20 move close to each other, the angle α between the inner side
10 26 of the massage head assembly and the surface of the housing 10 is the smallest, and when the minimum value of α is in a range of $\alpha \leq 54^\circ$, the angle α is too small that the finger can't reach in, thus the finger will not be pinched, meanwhile, the angle between the outer side 25 of the massage head assembly and the surface of the housing 10 is the largest so that there is no problem of pinching fingers. When the two massage head assemblies 20 move away from each other, the
15 angle β between the outer side surface 25 of the massaging head assembly 20 and the surface of the housing 10 is the smallest, and when the minimum value of β is in a range of $\beta \geq 23^\circ$, the gap between the outer side 25 and the housing 10 is sufficiently large, and even if the finger is inserted, the finger will not be squeezed, thereby the problem of pinching fingers is fundamentally avoided during operation.

20 Further, when the two massage head assemblies 20 oscillate toward each other as shown in FIG. 1, a height H1 is a distance from the lowest point of the inner side surface 26 of each massage head assembly 20 close to the other massage head assembly 20 to the highest point of the surface of the housing 10, and the height H1 is in a range of $H1 \leq 10\text{mm}$. The smaller the H1, the better, that is, the smaller the gap between the inner side 26 and the surface of the housing 10,
25 the less chance the fingers can reach in, thereby avoiding pinching the fingers. When the two massage head assemblies 20 are oscillated away from each other, a height H2 is a distance from the lowest point of the outer side 25 of each massage head assembly 20 away from the other massage head assembly 20 to the highest point of the surface of the housing 10, and the height H2 is in a range of $H2 \geq 15\text{ mm}$. The larger the H2, the better, that is, the larger the gap between
30 the outer side 25 of the massage head assembly and the surface of the housing 10, even if the finger is inserted, the finger will not be squeezed.

Specifically, in conjunction with FIG. 3 and FIG. 4, the driving assembly 30 includes a

driving motor 31 and an eccentric wheel assembly 32 driven by the driving motor 31 and capable of oscillating the massaging head assembly 20. Guide seats 11 are provided in the housing 10 and located at both sides of the eccentric wheel assembly 32, respectively. Each guide seats 11 is provided with a guide groove 12 opening toward the eccentric wheel assembly 32. The two sides of the eccentric wheel assembly 32 are respectively provided with a positioning post 13 which can extend into the guide grooves 12 and can slide in the guide groove 12. Such that, the reciprocating swing of the eccentric assembly 32 is smoother with positioning the positioning post 13 by the guiding groove 12, thereby the oscillation of the massage head assembly 20 is smoother and the massage experience of the massage head is improved.

Specifically, the eccentric wheel assembly 32 has an eccentric wheel housing 321 disposed on the outer side and two cover bodies 322. The two cover bodies 322 are respectively disposed on the inner side and the outer side of the eccentric wheel housing 321 along the axial direction of the eccentric wheel. The two positioning posts 13 disposed on both sides of the eccentric wheel housing 321. In this embodiment, the structure and principle of the eccentric wheel assembly 32 for moving the massage head assembly 20 by using the eccentric structure are the same as those in the prior massage device, and are not shown in detail herein.

Further, the drive assembly 30 further includes a transmission assembly and a transmission shaft 33. The transmission assembly includes a first gear 34 driven by the drive motor 31 and a second gear 35 engaged with the first gear 34. The two eccentric wheel assemblies 32 are respectively located at both ends of the transmission shaft 33, the second gear 35 is sleeved on the transmission shaft 33 and located at an inner side one of the eccentric wheels 32.

Referring to FIG. 5 and FIG. 6, in this embodiment, the housing 10 is provided with a mounting opening 14 for each massage head assembly 20, and each mounting openings 14 is provided with an auxiliary cover 40, and the auxiliary cover 40 is sleeved on the massage head assembly 20 and being movable with the massage head assembly 20, and the auxiliary cover 40 covers a gap between the massage head assembly 20 and the mounting opening 14. So that the finger is prevented from being pinched when entering into the gap during massage. Moreover, the auxiliary cover 40 is movable with the massage head assembly 20, which will not affect the massage movements of the massage head assembly 20.

Specifically, the portion of the housing 10 at the edge of the mounting opening 14 is convex upward in a first spherical shape, and the auxiliary cover 40 is upwardly convex in a second spherical shape, and the center of the first spherical surface 15 coincides with the center of the

second spherical surface 41. Since the center of the first spherical surface 15 coincides with the center of the second spherical surface 41, the second spherical auxiliary cover 40 can cover the gap when moving to any angle with the massage head assembly 20, thereby preventing finger insertion and ensuring safety.

5 The massage head assembly 20 includes a driving bracket 21 connected with the driving assembly 30, a massage head holder 22 fixed to the driving bracket 21, and a massage head 23 disposed on the massage head holder 22. The auxiliary cover 40 has a through hole 42 in the middle thereof, and the driving bracket 21 is disposed in the through hole 42 and the outer edge of the auxiliary cover 40 extends into an inner side of the mounting opening 14. Thus, the outer
10 edge of the auxiliary cover 40 extends into the inner side of the mounting opening 14, i.e., the auxiliary cover 40 is confined within the mounting opening 14 and moves with the massage head holder 22 within a range of the mounting opening 14.

 Further, a soft rubber cover 50 is disposed at the mounting opening 14, and a positioning ring 60 is disposed at the opening of the soft rubber cover 50, and the massage head assembly 20
15 passes through the soft rubber cover 50 and the positioning ring 60. When the massage head assembly 20 is extended from the mounting opening 14, a soft rubber cover 50 is disposed at the mounting opening 14, and the mounting opening 14 is blocked by the soft rubber cover 50. Thus, on one hand, the finger is prevented from being pinched when entering into the mounting opening 14, on the other hand, making the mounting port 14 being more beautiful. Moreover,
20 for the massage head assembly 20 passes through the soft rubber cover 50, the soft rubber cover 50 is pulled to form a noise when the massage head assembly 20 moves, the positioning ring 60 disposed herein perform a function of fixing the soft rubber cover 50 to reduce the tension range of the soft rubber cover 50, and further reducing the noise, thereby providing the user a better massage experience. Meanwhile, the soft rubber cover 50 is also prevented from being worn
25 with the fixation of the positioning ring 60.

 Specifically, the soft rubber cover 50 may be pleated to form an annular protrusion 51, and the positioning ring 60 is fixed to the annular protrusion 51. The positioning ring 60 disposed on the annular protrusion 51 performs a pressing effect to the soft rubber cover 50.

 In this embodiment, the housing 10 is sleeved with a silicone protective cover 70, and the
30 soft rubber cover 50 is integrally formed with the silicone protective cover 70. During massaging, the silicone protective cover 70 may be in contact with the neck, and an integrally formed silicone protective cover 70 is disposed outside the housing 10 to facilitate cleaning of the

silicone protective cover 70 without damaging the housing 10.

Referring to FIGS. 7 to 9, the plurality of massage heads include a first massage head 221, a second massage head 222, a third massage head 223, a fourth massage head 224 and a fifth massage head 225 sequentially arranged along the edge of the massage head holder 22. With reference to the horizontal center line OO' of the third massage head 223 when the massage head holder 22 is placed in the longitudinal direction, an angle between the line OA at the center of the first massage head 221 and the center of the third massage head 223 and the horizontal center line OO' is α , and the angle α ranges from 55° to 75°. An angle between the line OB at the center of the second massage head 222 and the center of the third massage head 223 and the horizontal center line OO' is β , the angle β ranges from 70° to 90°. An angle between the line OC at the center of the fourth massage head 224 and the center of the third massage head 223 and the horizontal center line OO' is γ , and the angle γ ranges from 55° to 75°. An angle between the line OD at the center of the fifth massage head 225 and the center of the third massage head 223 and the horizontal center line OO' is θ , and the angle θ ranges from 35° to 55°.

In this embodiment, the massage head assembly is mainly applied to the neck massage, and the relative positions of the five massage heads are embodied according to the position of the acupuncture points of the neck, so that when applied in the neck massage device, the position of the massage point can be better targeted to perform the massage, and the five massage heads are arranged to better simulate the hand grip, performing a better massage effect. Moreover, when the neck massage device is used in a right direction or upside-down direction, the position of the five massage heads changes, thereby it can be used to massage different acupuncture points. For example, when the neck massage device is right placed on the neck, the first massage head 221 corresponding to the thumb is opposite to the wind pool hole of the neck, and when the neck massage device is upside down placed on the neck, the first massage head 221 corresponding to the thumb is directly opposite the shoulder hole of the neck, so that the massage heads can massage different acupuncture points on the neck to improve the massage experience.

Specifically, as a preferred embodiment, α is 62°, β is 80°, γ is 68°, and θ is 47°. When the first massage head 221, the second massage head 222, the fourth massage head 224 and the fifth massage head 225 are respectively at the above angles with respect to the third massage head 223, the acupuncture points are better attached to the neck, and performing a better massage effect.

The first massage head 221, the second massage head 222, the third massage head 223, the fourth massage head 224 and the fifth massage head 225 have different heights. That is, the

height of each massage head is not exactly the same.

In this embodiment, the height value of the third massage head 223 is the largest, about 14.1 mm, and the height values of the first massage head 221, the second massage head 222 and the fourth massage head 224 are the same, about 11.1 mm. The height of the fifth massage head 225 is the smallest, about 7.1 mm. Alternatively, the heights of the massage heads may be set to be different.

Referring to FIG. 9, the massage head holder 22 includes a plastic bottom plate 226 and five plastic protrusions 227 disposed on the plastic bottom plate 226 and spaced apart from each other. The plastic bottom plate 226 is covered with a silicone bottom cover 228, and the silicone bottom cover 228 is provided with five silicone massage contacts 229 that can be sleeved on the five plastic protrusions 227, respectively, and the five plastic protrusions 227 combined with the five silicone massage contacts 229 respectively form a first massage head 221, a second massage head 222, a third massage head 223, a fourth massage head 224 and a fifth massage head 225.

In this embodiment, the plastic bottom plate 226 and the silicone bottom cover 228 are separately molded and then assembled, the mold structure is simple, and the cost is low. The plastic bottom plate 226 and the plastic protrusions 227 located inside serve as a supporting skeleton, and the outer silicone bottom cover 228 and the silicone massage contacts 229 are flexible, such that those two parts are integrally molded to be soft outside and hard inside, thereby improving the massage comfort of the massage head.

In this embodiment, after the plastic bottom plate 226 and the silicone bottom cover 228 are separately molded, it is preferably integrally molded by means of over-molding, so that the production efficiency is higher and the cost is lower. It should be understood that other fixation manner for connecting the plastic bottom plate 226 and the silicone bottom cover 228 may be adopted, such as a glue fixing connection or the like.

Further, as shown in FIG.7, in this embodiment, the distance between the first massage head 221 and the second massage head 222 is L1, and the distance between the second massage head 222 and the third massage head 223 is L2. The distance between the third massage head 223 and the fourth massage head 224 is L3, and the distance between the fourth massage head 224 and the fifth massage head 225 is L4, where $L1 > L4 > L2 = L3$.

Referring to FIG.10 and FIG.11, in the embodiment, the plurality of massage heads further includes a heating massage head 24 disposed in the middle of the massage head holder 22. The heating massage head 24 includes a massage contact 241 having a receiving chamber, a flexible

heating piece 242 attached along the inner wall of the receiving chamber, a wire 243 electrically connected to the flexible heating piece 242, and a pressing post 244 extending into the receiving chamber to press the flexible heating piece 242, and a bottom plate 245 disposed at the bottom of the pressing post 244 and located at the outer side of the receiving cavity for fixing, the pressing
5 post 244 has a hollow structure and penetrates with the bottom plate 245, and the wire 243 passes through the pressing post 244 and the bottom plate 245 and electrically connected with a control circuit. The flexible heating piece 242 is disposed in the receiving chamber of the massage contact 241 to make the bonding between the heating piece and the massage contact 241 tighter, so that the massage contact 241 is evenly heated, thereby the heating performance is improved,
10 thereby enhancing the hot compress effect to the acupuncture point during the massage and thereby enhancing the massage effect.

Further, the flexible heating piece 242 includes an inner heating portion 246 located at the center and a plurality of outer heating portions 247 uniformly arranged along the edge of the inner heating portion 246, and an interval 248 being arranged between two adjacent outer
15 heating portions 247. Since the heating piece is made of a flexible material, intervals 248 are set between the outer heating plates 247, such that, it is more convenient to attach the flexible heating piece 242 to the interior wall of the chamber without any wrinkles.

The above descriptions are merely some preferred embodiments of the present disclosure and are not intended to limit the present disclosure. It would be apparent for persons skilled in
20 the art that various modifications and changes can be appreciated in the present disclosure. Any modifications, equivalent substitutions and improvements, etc. made within the spirit and/or principles of the present disclosure are included in the protection scope of the present application.

What is claimed is:

1. A massage device comprising:

a housing;

two massage head assemblies extending from the housing and disposed oppositely; and

5 a driving assembly disposed in the housing for driving the two massage head assemblies,

wherein

the two massage head assemblies relatively oscillate under a driving action of the driving assembly to form a kneading massage,

10 when the two massage head assemblies oscillate towards each other, an inner side of each massage head assembly close to the other massage head assembly forms an angle α with a surface of the housing, and the angle α is in a range of $\alpha \leq 54^\circ$,

when the two massage head assemblies oscillate away from each other, an outer side of each massage head assembly away from the other massage head assembly forms an angle β with the surface of the housing, and the angle β is in a range of $\beta \geq 23^\circ$.

2. The massage device according to claim 1, wherein a height H1 is a distance from a lowest point of the inner side of each massaging head assemblies close to the other massaging head assembly to a highest point of the surface of the housing, when the two massage head assemblies oscillate toward each other, and the height H1 is in a range of H1

20 ≤ 10 mm; and

a height H2 is a distance from a lowest point of the outer side of each massaging head assemblies away from the other massaging head assembly to a highest point of the surface of the housing, when the two massage head assemblies are oscillated away from each other, and the height H2 is in a range of $H2 \geq 15$ mm.

25 3. The massage device according to claim 1, wherein the drive assembly comprises a drive motor and two eccentric wheel assemblies driven by the drive motor to oscillate the two massage head assemblies, respectively, and guiding seats are provided in the housing and disposed on both sides of each eccentric wheel assemblies, each of the guiding seats is provided with a guiding groove opening toward the eccentric wheel assembly, and

30 positioning posts are respectively provided on both sides of each eccentric wheel assembly being extendable and slidable in the guiding groove.

4. The massage device according to claim 3, wherein the drive assembly further

comprises a transmission assembly and a transmission shaft, the transmission assembly comprises a first gear driven by the drive motor and a second gear engaged with the first gear, the two eccentric wheel assemblies are respectively located at two ends of the transmission shaft, and the second gear is sleeved on the transmission shaft and located at an inner side of one of the two eccentric assemblies.

5 5. The massage device according to any one of claims 1 to 4, wherein the housing is provided with mounting openings for each massage head assembly, and each mounting openings is provided with an auxiliary cover disposed on the massage head assembly and being movable with the massage head assembly, the auxiliary cover is configured to cover a gap between the massage head assemblies and the mounting openings.

6. The massage device according to claim 5, wherein a housing portion of the edge of the mounting opening is upwardly convex in a first spherical shape, the auxiliary cover is upwardly convex in a second spherical shape, the center of the first spherical shape coincides with the center of the second spherical surface.

15 7. The massage device according to claim 5, wherein the massage head assembly comprises a driving bracket coupled to the drive assembly, a massage head holder fixed to the driving bracket, and a massage head disposed on the massage head holder, wherein the middle of the auxiliary cover has a through hole, the driving bracket is disposed through the through hole, and an outer edge of the auxiliary cover extends into the inner side of the mounting opening.

20 8. The massage device according to claim 5, wherein a soft rubber sleeve is disposed at the mounting opening, and a positioning ring is disposed at the opening of the soft rubber sleeve, and the massage head assembly passes through the soft rubber sleeve and the positioning ring.

25 9. The massage device according to claim 8, wherein the soft rubber sleeve is pleated to form an annular projection, and the positioning ring is fixed to the annular projection.

10. The massage device according to claim 8, wherein the housing is sleeved with a silicone protective sleeve, and the soft rubber sleeve is integrally formed with the silicone protective sleeve.

30 11. The massage device according to claim 7, wherein the plurality of massage heads comprise a first massage head, a second massage head, a third massage head, a fourth a massage head and a fifth massage head arranged in sequence along the edge of the massage

head holder, with reference to a horizontal center line of the third massage head when the massage head holder is longitudinally placed,

an angle between a line at the center of the first massage head and the center of the third massage head and the horizontal center line is α , and the angle α ranges from 55° to 75°;

an angle between a line at the center of the second massage head and the center of the third massage head and the horizontal center line is β , and the angle β ranges from 70° to 90°;

an angle between a line at the center of the fourth massage head and the center of the third massage head and the horizontal center line is γ , and the angle γ ranges from 55° to 75°; and

an angle between a line at the center of the fifth massage head and the center of the third massage head and the horizontal center line is θ , and the angle θ ranges from 35° to 55°.

12. The massage device according to claim 11, wherein the angle α is 62°, the angle β is 80°, the angle γ is 68° and the angle θ is 47°.

13. The massage device according to claim 11, wherein the first massage head, the second massage head, the third massage head, the fourth massage head and the fifth massage have different heights.

14. The massage device according to claim 13, wherein the third massage head has the largest height value, the first massage head, the second massage head and the fourth massage head have a same height value second to the height value of the third massage head, and the fifth massage head has the smallest height value.

15. The massage device according to claim 11, wherein the massage head holder comprises a plastic bottom plate and five plastic protrusions disposed on the plastic bottom plate and spaced apart from each other, wherein the plastic bottom plate is cover with a silicone bottom cover, and the silicone bottom cover are provided with five silicone massage contacts respectively sleeved on the five plastic protrusions, and

the five plastic protrusions combined with the five silicone massage contacts respectively form the first massage head, the second massage head, the third massage head, the fourth massage head and the fifth massage head.

16. The massage device according to any one of claims 11 to 15, wherein a distance

between the first massage head and the second massage head is L1, a distance between the second massage head and the third massage head is L2, a distance between the third massage head and the fourth massage head is L3, and a distance between the fourth massage head and the fifth massage head is L4, where $L1 > L4 > L2 = L3$.

5 17. The massage device according to claim 11 or 12, wherein the plurality of massage heads further comprise a heating massage head disposed in a middle portion of the massage head holder,

the heating massage head including a massage contact having a receiving chamber, a flexible heating piece attached along the inner wall of the receiving chamber, a wire
10 electrically connected to the flexible heating piece, a pressing post extending into the receiving chamber to press the flexible heating piece, and a bottom plate disposed at the bottom of the pressing post and located at the outer side of the receiving chamber for fixing,
the pressing post has a hollow structure and penetrates with the bottom plate, and the wire passes through the pressing post and the bottom plate and electrically connected with a
15 control circuit.

18. The massage device according to claim 17, wherein the flexible heating piece comprises an inner heating portion in the center and a plurality of outer heating portions uniformly disposed along an edge of the inner heating portion, and an interval being arranged between two adjacent outer heating portions.

20