SUIT-TYPE COSMETIC AIR MASSAGE DEVICE

BACKGROUND OF THE INVENTION

1. Field of the Invention

This invention relates to an air massage device where plural air bags installed within can be inflated/deflated by compressed air. Especially, a suit-type cosmetic air massage device being quilted for making to a suit-shaped parts where plural air bags installed within, such as arm or leg regions can be inflated/deflated by compressed air to provide air pressuring massage to a user.

2. Description of the Prior Art

Previously invented air massage devices, such as a mat-type air massage device is constructed so that plural air bags installed within the body of the mat can be inflated/deflated by compressed air to provide with air massage upon the backside of human body, and a chair-type air massage device is constructed so that plural air bags installed within the backrest can be inflated/deflated by compressed air and can provide with air massage upon the back part of a human body.

And now, a pocket-type air massage device for providing air pressuring massage to an appropriate part of human body, such as an arm or a leg by a pocket where plural air bags installed within can be inflated/deflated by compressed air, is being developed. And this air pressuring massage can not be provided by the above mat-type air massage device or chair-type air massage device.

However, to inflate/deflate pluarl air bags with air in order, it is usually that a rotary valves is equipped into an intake/exhaust instrument of the above-mentioned device for changing the intaking/exhausting of compressed air.

Therefore, in the conventional air massage devices as

the above-mentioned, the plural air bags can repeat to pressurize/release upon the contacting parts of human body by inflating/deflating in order. And the stimulation occurred by air is comparatively soft so that old people whose bones are getting weaker, desire it very much because they may avoid damaging their bones.

But, it had very troublesome problem to use the conventional air massage devices as the above-mentioned, as the pressurizing/releasing of compressed air is repeated upon only one part of human body, and can not provide massage upon the whole body, the massage ranges are limited to one part or back part of human body, and the massage is liable to be monotonous too. And the whole body can not be provided with balanced massage.

SUMMARY OF THE INVENTION

This invention improves upon the above-mentioned problems, providing a suit-type cosmetic air massage device which can provide air pressuring massage upon almost the whole body of a user.

And providing a suit-type cosmetic air massage device which can provide different pressuring massage upon a human body in order. A user can select a desired massaging way by a control measure because the control measure can operate massaging ways equipped for providing regular or no regular air pressuring massage in order to the whole body of a human. And this air pressuring massage can not provided by any of above invented devices.

In order to achieve the above purpose, the suit-shaped parts of the suit-type cosmetic air massage device are installed within plural air bags which are connected with an intake/exhaust instrument via each intaking/exhausting hose.

Further, in the suit-type cosmetic air massage device of this invention, the preceding suit-shaped parts are comprised of an upper suit-shaped part for an upper body and a lower suit-shaped part for a lower body,

and plural air bags are installed within the upper suit-shaped part and the lower suit-shaped part and can connect solely or together with the preceding intake/exhaust instrument via each intaking/exhausting hose for providing compressed air from the preceding intake/exhaust instrument to the upper suit-shaped part and the lower suit-shaped part.

Further, in the suit-type cosmetic air massage device of this invention, the preceding plural air bags installed within the suit-shaped parts are divided into several groups, and air bags of the same group can be inflated/deflated simultaneously.

Further, in the suit-type cosmetic air massage device of this invention, the preceding plural air bags installed within the suit-shaped parts are divided into several groups, and left and right air bags of each group can be inflated/deflated simultaneously.

Further, in the suit-type cosmetic air massage device of this invention, the preceding intake/exhaust instrument has a control measure for repeating intaking/exhausting in order to preceding plural air bags installed within the preceding suit-shaped parts.

Further, in the suit-type cosmetic air massage device of this invention, the preceding control measure can intake the preceding plural air bags with air one by one, and exhaust them simultaneously after all of them have been inflated in order.

Further, in the suit-type cosmetic air massage device of this invention, the preceding control measure can intake all of air bags simultaneously, and exhaust them simultaneously after the inflated status of them has passed a set period of time.

Further, in the suit-type cosmetic air massage device of this invention, the preceding control measure has equipped with an auto-timer program for stopping the intaking/exhausting after a set priod of time has passed

from starting.

Further, in the suit-type cosmetic air massage device of this invention, a remote-control instrument is placed to an appropriate region of a hand of the preceding suit-shaped parts for starting/pausing/restarting of the preceding intake/exhaust instrument.

Further, in the suit-type cosmetic air massage device of this invention, several same shape connectors are equipped with junctions of preceding intaking/exhauting hoses and suit-shaped parts for separating from or connecting to those intaking/exhausting hoses.

Further, in the suit-type cosmetic air massage device of this invention, several T-shape sockets are equipped within each fork rounte of the preceding intaking/ exhausting hoses.

With these constructions, a user can wear the suit-shaped parts to get air pressuring massage because the suit-shaped parts are equipped within plural inflatable/ deflatable air bags covering almost the user's whole body.

Further, a user can only wear the upper suit-shaped part or the lower suit-shaped part to use because the suit -shaped parts is divided into an upper suit-shaped part for covering the upper part of a human body and a lower suit-shaped part for covering the lower part of a human body, and these upper and lower suit-part can be supplied or exhausted with air from the preceding intake/exhaust instrument. And also, the user can connect two suit-shaped parts with several same shape connectors to use because each intaking/exhausting hose of preceding suit-shaped parts can be connected to or separated from each same shape connector.

Further, the upper or lower part of a huamn body can be provided with synchronized air pressure by air bags of each group, by which plural air bags installed within the preceding suit-shaped parts are divided into several groups, and air bags of each group can be inflated/

deflated simultaneously.

Further, the portions from both hands to both shoulders, and from feet to waist of a human body can be provided with same divided air pressuring massage, by which the preceding plural air bags are comprised of air bags of four groups, and the preceding four groups are comprised of sixteen air bags being arranged by upper and lower each four pairs, and the upper four pairs are arranged by eight air bags symmetrically installed within left and right position from corresponding to both hands to corresponding to both shoulders of preceding upper suit-shaped part, as to be the first, second, third and fourth group, and the lower four pairs are arranged by eight air bags symmetrically installed within left and right position from corresponding to feet to corresponding to waist of the lower suit-shaped part, as to be the first, second, third and fourth group.

Further, a user's shoulders or waist can be provided with enforced pressure by which air bags of the preceding fourth group are overlapped to install (for example, one on top of another) within position corresponding to both shoulders and waist.

Further, it is possible to equip intaking/exhausting hoses without bending them, and easily equip them with almost straight rounte of intaking/exhausting by this construction which T-shape sockets are equipped into each fork rounte of each intaking/exhausting hose, these hoses have fork rountes connecting the intake/exhaust instrument with each of plural air bags divided into several groups, and air bags of same group can be inflated /deflated simultaneously.

Further, new several pressuring massage can be provided in different intaking/exhausting by which a control measure is installed in the intake/exhaust instrument, and the control measure can operate intaking/ exhausting of compressed air in several orders or time

upon plural air bags divided into several groups for inflating/deflating simultaneously.

That is to say, the whole body of a human can be simultaneously provided with air pressuring maasage by which programs are installed in the preceding control measure, and the programs can repeat the cycle intaking compressed air to preceding all of air bags divided into four groups simultaneously within a set period of time, and exhausting compressed air from air bags of all groups after a set period of time has passed.

Further, the position corresponding to from both hands to both shoulders and position corresponding to from feet to waist can be provided with waved air pressuring massage by inflated/exhausted of air bags of each group simultaneously in order, by which a program is installed in the preceding control measure for repeating the cycle of intaking/exhausting compressed air to/from air bags of preceding four groups, as to the first, second, third and fourth group in order for a set period of time.

Further, the position corresponding to from both hands to both shoulders and position corresponding to from feet to waist can be provided with air pressuring massage like being squeezed by cumulating pressure from air bags of each group simultaneously in order, by which a program is installed in the preceding control measure for repeating the successively cycle of intaking compressed air to air bags of preceding four groups, as to the first, second, third and fourth group in order for a set period of time, and simultaneously exhausting air bags of all groups after a set period of time.

Further, it is possible to prevent a user from fogetting to turn off a switch or using over an appointed time by which an auto-timer program installed in the preceding control measure can stop the intaking/exhausting after a set period of time has passed from starting.

Further, a user can start or pause or restart

inflating/deflating of air bags of preceding each group with wearing the preceding suit-shaped parts by a hand to operate the remote control instrument so that the user can pause the inflating/deflating of air bags immediately when the user feels strong massage or uncomfortable, for which a remote control instrument is placed to the position corresponding to a hand region of the suit-shaped parts for operating the preceding intake/exhaust instrument to start or pause or restart the intaking/exhausting.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 depicts a front view of the suit-type cosmetic air massage device with a user in using status.

FIG. 2 depicts a front view of the suit-type cosmetic air massage device with an arrangement of plural air bags.

FIG. 3 depicts a front view of the suit-type cosmetic air massage device with all of parts.

FIG. 4 depicts a front view of the suit-type cosmetic air massage device with separated to three parts.

FIG. 5 depicts a front view of the suit-type cosmetic air massage device with only upper suit-shaped part.

FIG. 6 depicts a front view of the suit-type cosmetic air massage device with only lower suit-shaped part.

DETAILED DESCRIPTION

As shown in FIG. 1, 2, 3, the suit-type cosmetic air massage device 1 is comprised of an upper suit-shaped part 11 covering a user's upper body, a lower suit-shaped part 12 covering a user's lower body, plural air bags 111·112·113·114 are installed within each suit-shaped part 11, 12, an intake/exhaust instrument 13 connected to the preceding plural air bags 111·112·113·114 and 121·122·123·124 via each intaking/exhausting hose 14, a control measure 131 installed within the preceding intake/exhaust instrument 13 to control intaking/exhausting of compressed air to the

preceding plural air bags 111·112·113·114 and 121·122·123·124, first same shape connector 151 connecting the preceding suit-shaped part 11·12 with the preceding intaking/exhausting hose 14, and second same shape connector 152 connecting the lower suit-shaped part 12 to the preceding intaking/ exhausting hose 14.

The preceding upper suit-shaped part 11 is made from an elastic material, such as synthetic fiber, and is shaped into an upper suit to cover a user's upper body as shown in FIG. 2.

Air bags 111 of the first group, air bags 112 of the second group, air bags 113 of the third group, and air bags 114 of the fourth group using for an upper body of a human are symmetrically installed within left and right positions corresponding to from both hands to both shoulders of the preceding upper suit-shaped part 11 as shown in FIG 3.

Further, each of eight air bags of four pairs of air bags 111 of first group, air bags 112 of second group, air bags 113 of third group, air bags 114 of fourth group are respectively connected with a pair of the preceding first same shape connectors 151 disposed symmetrically on the left and right bottom of the preceding upper suit-shaped part 11 by preceding intaking/exhausting 14.

Further, the preceding air bags 114 of fourth group can be comprised of two layers by overlapped a secondary shoulder air bags 115 either, as shown in FIG. 3 in order to enforce pressure upon a user's shoulders.

The preceding first same shape connector 151 is made from hard material, such as synthetic resin, and is disposed symmetrically on left and right border between the preceding upper suit-shaped part 11 and the lower suit-shaped part 12 as shown in FIG. 4, for connecting each of intaking/exhausting hoses with the preceding each air bags 111 and 121, 112 and 122 , 113 and 123, 114 and 124 of four groups.

Further, the preceding first same shape connector 151 is comprised of a pair of upper members 151U on left and right of the first same shape connector 151, and a pair of lower members 151L on left and right of the first same shape connector 151 as shown in FIG. 4. The upper members 151U and the lower members 151L can be separated/connected by operating easily hooks (not shown).

And also, the preceding lower suit-shaped part 12 is made from an elastic material, such as synthetic fiber, as the same to the preceding upper suit-shaped part 11, and is shaped into a lower suit for covering a user's lower body as shown in FIG. 2 and FIG. 3.

Air bags 121 of the first group, air bags 122 of the second group, air bags 123 of the third group, and air bags 124 of the fourth group using for a lower body of a human are symmetrically installed within left and right positions corresponding to from feet to waist of the preceding lower suit-shaped part 12 as shown in FIG 3.

Further, each of eight air bags of four pairs of air bags 121 of first group, air bags 122 of second group, air bags 123 of third group, air bags 124 of fourth group are respectively connected with each intaking/exhausting hose 14 having several fork rountes 171 installed within among a pair of the preceding first same shape connectors 151 disposed symmetrically on the left and right upper of the preceding lower suit-shaped part 12 and second same shape connectors 152 disposed symmetrically on the left and right bottom of the preceding lower suit-shaped part 12.

Further, a T-shape socket 17 is installed within the preceding fork rounte 171 as shown in FIG. 3.

Further, the preceding air bags 124 of fourth group can be comprised of two layers by overlapped a secondary waist air bag 125 either, as shown in FIG. 3 in order to enforce pressure upon a user's waist.

The preceding second same shape connector 152 is made

from hard material, such as synthetic resin, as the same to the first same shape connector 151, and is disposed symmetrically on left and right of bottom of the preceding lower suit-shaped part 12 to relay and compile each intaking/exhausting hose 14 to a mutual connector 16 as shown in FIG. 4.

Further, the preceding second same shape connector 152 is comprised of a pair of upper members 152U on left and right of the second same shape connector 152, and a pair of lower members 152L on left and right of the second same shape connector 152 as shown in FIG. 4. The upper members 152U and the lower members 152L can be separated/ connected by operating easily hooks (not shown).

Therefore, when all of the preceding first same shape connectors 151 and the second same shape connectors 152 are separated, the suit-type cosmetic air massage device can be divided into three parts, as to be the part of the upper suit-shaped part 11, a part of the lower suit-shaped part 12, and a part of the intake/exhaust instrument 13 as shown in FIG. 4.

Subsequently, as shown in FIG. 5, a use can use only the upper suit-shaped part 11 because the first same shape connector 151 and the second same shape connector 152 are made from same material and members, the upper member 151U of the first same shape connector 151 and the lower member 152L of the second same shape connector 152 are connnected with together by operating easily.

Further, as shown in FIG. 6, a user can use only the lower suit-shaped part 12, because the upper member 151U and lower member 151L of the first same shape connectors 151 can be separated, and their lower member 151L can be inserted by a stopper 18 for preventing air from exhausting while the second same shape connectors 152 are in the connected status.

Further, as shown in FIG. 3, 16 is a mutual connector and is equipped with for compiling a pair of left and

right intaking/exhausting hoses 14 connecting the same air bags of same groups (for example, a pair of air bags of first groups using for upper body) of a pair of air bags 111 to 114 of first group to fourth group installed within left and right of the preceding upper suit-shaped part 11 using for upper body, and a pair of air bags 121 to 124 of first group to fourth group installed within left and right of the preceding lower suit-shaped part 12 using for lower body, so that a pair of left and right intaking/exhausting hoses 14 are compiled to one rounte, and four pairs of them can become to four rountes to connect with the intake/exhaust instrument 13 through the preceding mutual connector 16.

That is to say, the air bags 111 of first group using for upper body and air bags 121 of first group using for lower body, the air bags 112 of first group using for upper body and air bags 122 of first group using for lower body, and air bags 113 of first group using for upper body and air bags 123 of first group using for lower body, and air bags 114 of first group using for upper body and air bags 124 of first group using for lower body can be connected with the intake/exhaust instrument 13 through each same intaking/exhausting hose.

The preceding intake/exhaust instrument 13 is installed within a supplying device of compressed air (not shown), such as an air compressor, and connected respectively with each air bags of each one of four groups via the above-mentioned four intaking/exhausting routes.

And four electro magnetic valves for intaking and four electro magnetic valves for exhausting (not shown) are equipped near the preceding intake/exhaust instrumnet 13 and are controlled to open or close respectively by the control measure 131 as shown in FIG. 3 to intake/exhaust independently upon preceding four intaking/exhausting rountes.

Further the preceding control measure 131, for example, can be equipped with a program which can control all of the preceding four electro magnetic valves for opening to intake simultaneously after a set period of time and subsequently to open all of the preceding four electro magnetic valves for exhausting, and repeat this cycle, or a program which can control the four electro magnetic valves for intaking and four electro magnetic valves for exhausting to change the open or close each other in order and in a set period of time, and repeat this cycle.

Therefore, the preceding intake/exhaust instrument 13 can inflate/deflate the preceding air bags 111·121 of the first group, 112·122 of the second group, 113/123 of the third group, and 114/124 of the fourth group simultaneously in order by operating the preceding a program equipped in the preceding control measure 131.

Further, not shown in figures, the control measure 131 may be equipped with a remote control instrument for starting/pausing/restarting the inflating/deflating of the preceding air bags of each group, and the remote control instrument is linked to and operated by a remote controller which may be placed to an appropriate position corresponding to a hand region of the preceding upper suit -shaped part 11.

Consequently, the present invention can provide with new pressure feel being different from one of invented conventional air massage devices, and effective cosmetic air massage upon a user's whole body, and also, can provide with balanced cosmetic air massage upon almost a user's whole body or only upper body or only lower body.

Further, the present invention can provide simultaneously with waved air massage and spueezed air massage upon regions from both hands to shoulders and from feet to waist, that is to say , from bottom of lower body to centre of upper body of a human, and can provide new

pressure feel of air pressuring massage simultaneously upon almost whole body, not provided before, so that circulations of body liquid, such as blood, can be improved, and muscular stiffness can be softened etc.

What is claimed is:

1. A suit-type cosmetic air massage device comprising:

suit-shaped parts;

a plurality of inflatable/deflatable air bags installed within the suit-shaped parts; and

an intake/exhaust instrument which is connected to preceding plurality of the air bags via each intaking/exhausting hose.

2. A suit-type cosmetic air massage device according to Claim 1,
comprising:

preceding suit-shaped parts which are comprised of an upper suit-shaped part and a lower suit-shaped part; and

preceding intake/exhaust instrument which is able to be connected to both or either of plurality of air bags in the upper suit-shaped part and plurality of air bags in the lower suit-shaped part via the intaking/exhausting hoses.

3. A suit-type cosmetic air massage device according to Claim 2,
comprising:

preceding plurality of air bags which are divided into several groups, and air bags of a same group can be inflated/deflated simultaneously.

4. A suit-type cosmetic air massage device according to Claim 3,
comprising:

preceding plurality of air bags which are divided into several groups, and left and right air bags of each group can be inflated/deflated simultaneously.

5. A suit-type cosmetic air massage device

according to Claim 4,
comprising:

a control measure which is disposed on the preceding intake/exhaust instrument for repeating to intake to and exhaust from each air bag installed within the preceding suit-shaped parts in order.

6. A suit-type cosmetic air massage device according to Claim 5,
comprising:

preceding control measure which can operate the preceding intake/exhaust instrument to intake air to each air bag in order and maintain them in inflated status, and exhaust air from them simultaneously at the time after all of air bags have been inflated.

7. A suit-type cosmetic air massage device according to Claim 5,
comprising:

preceding control measure which can operate the preceding intake/exhaust instrument to inflate all of air bags simultaneously, and deflated them simultaneously after a set period of time has passed.

8. A suit-type cosmetic air massage device according to Claim 5~7,
comprising:

preceding control measure which is equipped with an auto-timer program for operating the preceding intake/exhaust instrument to stop intaking/exhausting after a set period of time has passed from starting.

9. A suit-type cosmetic air massage device according to Claim 1~8,
comprising:

a remote control instrument which can placed to a appropriate region corresponding to a hand for operating the preceding intake/exhaust instrument to start/puase/restart.

10. A suit-type cosmetic air massage device

according to Claim 9,
comprising:

same shape connectors which are disposed on junction between the preceding intaking/exhausting hoses and the preceding suit-shaped parts, and can separate from and connect with the preceding intaking/exhausting hoses and the preceding suit-shaped parts.

11. A suit-type cosmetic air massage device according to Claim 10,
comprising:

T-shape sockets which are installed into the preceding fork rountes of the preceding intaking/ exhausting hoses.