

EYE SOCKET MASSAGER

1. Field of the Invention

The present invention relates to a massager, and more particularly to an eye sockets massager.

2. Description of Related Art

A conventional eye sockets massager in accordance with the prior art is provided to be worn on user's head for massaging user's eyeball surroundings via air pressure or vibration. The conventional eye sockets massager comprises air bladders, an air pump, pipes for communicating the air pump and the air bladders, and an electromagnetic valve for controlling the air pump. However, the conventional eye sockets massager only massages the surroundings of the user's eyes and can not massage the points around user's eyes such that the massage effect is reduced.

The present invention has arisen to mitigate and/or obviate the disadvantages of the conventional eye sockets massager.

The main objective of the present invention is to provide an improved eye sockets massager that can execute different massage mode.

To achieve the objective, the eye sockets massager in accordance with the present invention comprises an eyeshade, air bladder assembly, an air pump and at least one exhaust valve, wherein the air bladder assembly includes a central bladder, a left bladder and a right bladder separately disposed from one another and respectively connected to the at least one exhaust valve. The air pump is provided to respectively pump air into the central bladder, the left bladder and the right bladder.

The eye sockets massager includes a first exhaust valve and a second exhaust valve, wherein the central bladder is connected to the first exhaust valve, and the left bladder and the right bladder are respectively connected to the second exhaust valve.

Both the first exhaust and the second exhaust valve are electromagnetic valve. The central bladder is connected to an outlet of the first exhaust valve and an inlet of the first exhaust valve is connected to the air pump, and an exhauster of the first exhaust valve communicates with the atmosphere. The left bladder and the right bladder are respectively connected to an outlet of the second exhaust valve. An inlet of the second exhaust valve is connected to the air pump and an exhauster of the second exhaust valve communicates with the atmosphere.

The central bladder, the left bladder and the right bladder are connected to the same air pump.

The central bladder has two annular partitions respectively corresponding two user's two eyes and divided the central blade into two first central bladders within the two annular partitions and a second central bladder out of the two annular partitions. The two first central bladders and the second central bladder are separated from one another. The second central bladder is connected to a corresponding exhaust valve and pumped by the air pump.

Each exhaust valve and the air pump are received in a controller that is separated from the eyeshade and connected to the air bladder assembly by air pipes.

An air pipe connector is mounted to the eyeshade. The air pipe connector has two joints each communicating with a corresponding one of the four joints. A first joint and a second joint of the air pipe connector communicates with the bladders, and a third joint and a fourth joint are respectively connected to a corresponding exhaust valve.

The air pipe connector has a through hole defined therein to allow wires extending through the air pipe connector.

Further benefits and advantages of the present invention will become apparent after a careful reading of the detailed description with appropriate reference to the accompanying drawings.

IN THE DRAWINGS

Fig. 1 is a first schematic view of a first embodiment of an eye sockets massager in accordance with the present invention;

Fig. 2 is a second schematic view of the first embodiment of the eye sockets massager in accordance with the present invention;

Fig. 3 is a diagram for showing the air bladders, the exhaust valves and the air pump of the present invention;

Fig. 4 is a diagram for showing the control principle of the air passages of the present invention;

Fig. 5 is a top plan view of the eye sockets massager of the first embodiment in accordance with the present invention;

Fig. 6 is a diagram for showing the air bladders, the exhaust valves and the air pump of a second embodiment of the present invention;

Fig. 7 is a front plan view of an air pipe connector of the present

invention;

Fig. 8 is a perspective view of the air pipe connector of the present invention;

Fig. 9 is a perspective view an eyeshade and the air pipe connector of the second embodiment of the present invention;

Fig. 10 is an exploded perspective view of the eyeshade of the present invention; and

Fig. 11 is an exploded perspective view of a controller of the present invention.

Referring to the drawings and initially to Figs. 1-10, an eye sockets massager in accordance with the present invention comprises an eyeshade (1), an air bladder assembly (2) and a controller (3). The contour and the shape of the eyeshade (1) are designed according to the human's head for a comfortable wear. The eyeshade (1) has a hard base (11) and a soft bag (12). A resilient strap (13) has two opposite ends respectively connected to two opposite ends of the base (11). The soft bag (12) is connected to an inner side of the base (11). The soft bag (12) is made of cloth which is resilient. As shown in Fig. 10, the hard base (11) is consisted of goggles (111), a front casing (112), a vibrator (114) and a rear casing (113). The air bladder assembly (2) comprises a central bladder (21), a left bladder (22) and a right bladder (23), wherein the central bladder (21) is received in the soft bag (12) and corresponding to the user's face, the left bladder (22) is received in the soft bag (12) and corresponding to the user's left temple, and the right bladder (23) is received in the soft bag (12) and corresponding to user's right temple. The central bladder (21) has two

annular partitions (211) respectively corresponding two user's two eyes and divided the central blade (21) into two first central bladders (212) within the two annular partitions (211) and a second central bladder (213) out of the two annular partitions (211). A nozzle (214) is centrally mounted on the second central bladder (213). The two first central bladders (212) and the second central bladder (213) are separated from one another such that the air in the second central bladder (231) would not flow into the two first central bladders (212) to prevent the two first central bladders (212) from directly massaging user's eyes. The left bladder (22) and the right bladder (23) respectively has a nozzle (221, 231) mounted thereon. The controller (3) is separated from the eyeshade (1). The controller (3) has a front housing (31) and a rear housing (32) abutting each other to define a receiving space in the controller (3). A first exhaust valve (4), a second exhaust valve (5), an air pump (6) and a PCB (not shown) with control circuit are received in the controller (3), wherein both the first exhaust valve (4) and the second exhaust valve (5) are three-way electromagnetic valves. The air pump (6) is connected to an inlet of each of the first exhaust valve (4) and the second exhaust valve (5), and the control circuit is provided to control the operate condition of the first exhaust valve (4) and the second exhaust valve (5).

The nozzles (221, 231) of the left bladder (22) and the right bladder (23) are respectively connected to a first way and a second way of a three-way connector (8), and the third way of the three-way connector (8) is connected to a first joint (91) of an air pipe connector (9). An outlet of the first exhaust valve (4) is connected to a third joint of the air pipe connector (9) and an exhauster of

the first exhaust valve (4) communicates with the atmosphere. The nozzle (214) of the central bladder (21) is connected to a second joint (92) of the air pipe connector (9). An outlet of the second exhaust valve (5) is connected to a fourth joint (94) of the air pipe connector (9) and an exhauster of the second exhaust valve (5) communicates with the atmosphere. A through hole (95) is defined in the air pipe connector (9) to allow wires extending through the air pipe connector (9). The eye sockets massager in accordance with the present invention can independently operate eye sockets massage, temples massage or simultaneously massage the eye sockets and the temples.

In the preferred embodiment of the eye sockets massager, as described above, there are two exhaust valves in the present invention. However, the number of the exhaust valve can be design to be one or three. The number of the exhaust valve is decided relative to the practically operational demand or the design of the present invention. There is only one air pump in the above embodiment. However, the number of the air pump can be design to be two or three relative to the practically operational demand of the present invention.

In addition, as described above, the exhaust valves and the air pump is received in the controller and the controller is separated from the eyeshade such that the total weight of the eyeshade is reduced, it is comfortable to wear the present and the noise during operating is reduced. The central bladder, the left bladder and the right bladder are separately disposed from one another such that the three bladders are independently operated to promote the comfort during massaging.

Although the invention has been explained in relation to its preferred

embodiment, it is to be understood that many other possible modifications and variations can be made without departing from the spirit and scope of the invention as hereinafter claimed.

CLAIMS:

1. An eye sockets massager comprising an eyeshade, air bladder assembly, an air pump and at least one exhaust valve, wherein the air bladder assembly includes a central bladder, a left bladder and a right bladder separately disposed from one another and respectively connected to the at least one exhaust valve, the air pump provided to respectively pump air into the central bladder, the left bladder and the right bladder.

2. The eye sockets massager as claimed in claim 1 comprising a first exhaust valve and a second exhaust valve, wherein the central bladder is connected to the first exhaust valve, and the left bladder and the right bladder are respectively connected to the second exhaust valve.

3. The eye sockets massager as claimed in claim 2, wherein both the first exhaust and the second exhaust valve are electromagnetic valve, the central bladder connected to an outlet of the first exhaust valve and an inlet of the first exhaust valve connected to the air pump, and an exhauster of the first exhaust valve communicating with the atmosphere, the left bladder and the right bladder respectively connected to an outlet of the second exhaust valve, an inlet of the second exhaust valve connected to the air pump and an exhauster of the second exhaust valve communicating with the atmosphere.

4. The eye sockets massager as claimed in claim 3, wherein the central bladder, the left bladder and the right bladder are connected to the same air pump.

5. The eye sockets massager as claimed to claims 1, 2, 3 or 4, wherein the central bladder has two annular partitions respectively corresponding two

user's two eyes and divided the central blade into two first central bladders within the two annular partitions and a second central bladder out of the two annular partitions, the two first central bladders and the second central bladder separated from one another, the second central bladder connected to a corresponding exhaust valve and pumped by the air pump.

6. The eye sockets massager as claimed in claim 5, wherein each exhaust valve and the air pump are received in a controller that is separated from the eyeshade and connected to the air bladder assembly by air pipes.

7. The eye sockets massager as claimed in claim 1 further comprising an air pipe connector mounted to the eyeshade, the air pipe connector having two joints each communicating with a corresponding one of the four joints, a first joint and a second joint of the air pipe connector communicating with the bladders, a third joint and a fourth joint respectively connected to a corresponding exhaust valve.

8. The eye sockets massager as claimed in claim 7, wherein the air pipe connector has a through hole defined therein to allow wires extending through the air pipe connector.