

FOOTBATH BUCKET

BACKGROUND

1. Field of the Invention

5 The present invention relates to the field of physiotherapy equipment, and particularly to a footbath bucket.

2. Description of the Prior Arts

10 With the improvement of living standards, people pay more attention to health issues, so various physiotherapy equipment has emerged. A footbath bucket is one of the physiotherapy equipment. It is popular among the public because of its convenience, practicality, low price, and the fact that foot bath therapy can be performed at home. The commonly used footbath bucket comprises a bucket, and is equipped with an additional inflation device (such as a fan, etc.). The air pipe of the inflation device is placed in the footbath bucket to generate bubbles, such that the user can have a better experience during the foot bath. However, the bubbles can only be generated on the side where the air pipe is
15 mounted, and cannot cover the entire bottom of the footbath bucket, which will make the user experience less immersive.

To overcome the shortcomings, the present invention provides a footbath bucket to mitigate or obviate the aforementioned problems.

SUMMARY

20 The main objective of the present invention is to provide a footbath bucket. By forming multiple vents on a baffle and making the vents communicating with an inflation duct, the user only needs to connect an inflation device to the inflation duct, and then gas can overflow from the vents to form bubbles, thereby enhancing the user experience.

The footbath bucket comprises a container, a baffle, and an inflation duct. The container forms a foot bath space and comprises a top opening. The top opening spatially communicates with the foot bath space.

5 The baffle is mounted in the container, and the baffle is mounted at a lower part of the container to divide the foot bath space into an upper space and a lower space. Multiple vents are formed on the baffle and communicate with the upper space and the lower space.

The inflation duct spatially communicates with the lower space. A check valve is mounted on the inflation duct, and a connector is formed at an end of the inflation duct.

10 When using the footbath bucket, the user only needs to connect the inflation duct to the lower space, and gas can overflow from the vents to generate bubbles to enhance the user's experience. There is no need to connect additional pipes and installation kits to the footbath bucket.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a front view of a footbath bucket in accordance with the present invention;
15 Fig. 2 is a sectional view of the footbath bucket in Fig. 1;
Fig. 3 is a top view of the footbath bucket in Fig. 1;
Fig. 4 is a rear view of the footbath bucket in Fig. 1;
Fig. 5 is an operational front view of the footbath bucket in Fig. 1, with a spa machine; and
20 Fig. 6 is a rear view of the spa machine in Fig. 5.

DETAILED DESCRIPTION

With reference to Fig. 1 to Fig. 6, a footbath bucket in accordance with the present invention comprises a container 1, a baffle 25, and an inflation duct 41. A foot bath space 2 is formed in the container 1, and the container 1 further comprises a top opening spatially
25 communicating with the foot bath space 2. The baffle 25 is mounted in the container 1 at a

lower part of the container 1 to divide the foot bath space 2 into an upper space and a lower space. Multiple vents are formed on the baffle 25 and communicate with the upper space and the lower space. The inflation duct 41 connects to the lower space. A check valve is mounted on the inflation duct 41, and a connector is formed at an end of the inflation duct 41.

In this embodiment, water is injected into the container 1 during use, and an air pipe of an inflation device is connected to the inflation duct 41. The inflation device inflates the inflation duct 41, and the air flows into the lower space through the inflation duct 41, and then bubbles are injected into the upper space through the vents to enhance the user experience. The check valve can prevent water from flowing out of the container 1.

Furthermore, position and amount of the vents are mounted according to position of the soles of feet, such that when the inflation device is activated, the bubbles can relax the soles of feet.

Furthermore, multiple anti-sliding blocks are mounted on a bottom of the container 1.

Furthermore, a heater 24 is mounted in the lower space. The heater 24 can heat the water in the lower space. Preferably, when the inflation duct 41 is inflated, the gas drives part of the hot water to flow upward, thereby causing convection of the temperature of the water in the container 1.

Furthermore, the heater 24 can be turned on or off by remote control.

Furthermore, an inlet hole 22 and an outlet hole 21 are formed on the baffle 25 and communicate the upper space and the lower space. A circulation pump 23 is mounted in the lower space and is connected to the inlet hole 22. When the footbath bucket is in use, water in the upper space enters the lower space through the inlet hole 22 and then is heated by the heater 24. Then, the heated water is returned to the upper space through the outlet

hole 21 by the circulation pump 23, such that the water in the foot bath space 2 is heated or kept at a constant temperature.

Furthermore, the circulation pump 23 can be turned on or off by remote control.

Furthermore, the baffle 25 is tilted, such that a height of the outlet hole 21 is lower
5 than a height of the inlet hole 22. Preferably, after the water flows through the heater 24, the heater 24 heats the water, and the water flows back into the upper space. Through the convection of the water, the water temperature in the foot bath space 2 is kept constant or increased, thereby avoiding uneven distribution of water temperature in the upper space.

Furthermore, a drain port is formed on a side part of the container 1 and
10 communicates with the lower space. A protective cover 5 is detachably mounted on the drain port. The protective cover 5 can block the drain port. When the water in the container 1 needs to be drained, the protective cover 5 can be removed to drain the water in the upper space and the lower space through the drain port.

Furthermore, a power cord 43 is mounted on the side part of the container 1 and
15 connects the circulation pump 23 and the heater 24.

Furthermore, an installing seat 42 is mounted on the side part of the container 1 and is vertically mounted on the installing seat 42.

Furthermore, a spa machine 6 is mounted on the installing seat 42 and is connected to the inflation duct 41 by plugging. Preferably, a wireless control module is mounted in
20 the spa machine 6 and the installing seat 42. The heater 24 and the circulation pump 23 are connected and controlled by the wireless control module. A fan is mounted in the spa machine 6, such that gas can be injected into the foot bath space 2 through the spa machine 6 to generate bubbles.

Furthermore, the power cord 43 connects the installing seat 42. A power cable 44
25 is mounted on the installing seat 42, and a plug is mounted at an end of the power cable 44.

An adapter 61 is mounted on the spa machine 6 and corresponds in location to the plug. The installing seat 42 and the spa machine 6 are connected by inserting the plug into the adapter 61. When the spa machine 6 is plugged into and installed on the installing seat 42, the power cord 43 can supply power to the installing seat 42, such that the installing seat 42 can supply power to the spa machine 6 through the power cable 44.

Furthermore, an installing cavity 4 is formed on the container 1 and corresponds in location to the spa machine 6. The spa machine 6 is inserted and mounted in the installing cavity 4.

Furthermore, a cushion 3 is mounted on an edge of the top opening of the container 1, and the edge of the top opening is away from the installing seat 42. Preferably, the cushion 3 is made of a soft material, the soft material can be sponge, silicone, etc. The cushion 3 can protect the user's legs when using the footbath bucket and reduce the discomfort caused by the legs pressed against the side wall of the foot bath space 2 when using the footbath bucket.

The following is a process of using the footbath bucket in accordance with the present invention.

When the footbath bucket is in use, water is firstly poured into the footbath bucket, and the spa machine 6 is connected to the inflation duct 41 of the installing seat 42. Then, the power cable 44 of the installing seat 42 is connected to the adapter 61 of the spa machine 6, such that the power cord 43 mounted on the side part of the container 1 can simultaneously supply power to the spa machine 6, the heater 24, and the circulation pump 23. The spa machine 6 can inflate the inflation duct 41, such that the air flows into the container 1 through the inflation duct 41 and injects the bubbles into the upper space through the vents to enhance the user experience. The heater 24 and the circulation pump 23 are remotely controlled by the spa machine 6, such that the water in the upper space

flows into the lower space through the outlet hole 21 and flows through the heater 24, and finally the heated water is re-injected into the upper space through the circulation pump 23, such that the water in the foot bath space 2 is heated or kept at a constant temperature.

5 The following is another process of using the footbath bucket in accordance with the present invention.

When the footbath bucket is in use, water is firstly poured into the footbath bucket, and the inflation duct 41 of the installing seat 42 is connected to the air pipe of the inflation device. The air pipe is plugged and connected to the inflation duct 41 to inflate the inflation duct 41. The air flows into the lower space of the container 1 through the inflation duct 41
10 and injects the bubbles into the upper space through the vents to enhance the user experience. When using the footbath bucket, the heater 24 and the circulation pump 23 can also be turned on to allow the water in the upper space to flow into the lower space through the outlet hole 21 and flow through the heater 24 under the pumping of the circulation pump 23. The heated water pumped by the circulation pump 23 is re-injected into the upper
15 space, such that the water in the foot bath space 2 is heated or kept at a constant temperature.

WHAT IS CLAIMED IS:

1. A footbath bucket comprising:

a container forming a foot bath space; the container comprising a top opening spatially communicating with the foot bath space;

5 a baffle mounted in the container; the baffle mounted at a lower part of the container to divide the foot bath space into an upper space and a lower space; multiple vents formed on the baffle and spatially communicating with the upper space and the lower space; and

an inflation duct spatially communicating with the lower space; a check valve
10 mounted on the inflation duct, and a connector formed at an end of the inflation duct.

2. The footbath bucket as claimed in claim 1, wherein a heater is mounted in the lower space.

3. The footbath bucket as claimed in claim 2, wherein:

an inlet hole and an outlet hole are formed on the baffle; the inlet hole and the
15 outlet hole spatially communicating with the upper space and the lower space;

a circulation pump is mounted in the lower space and connects to the inlet hole.

4. The footbath bucket as claimed in claim 2, wherein a power cord is mounted on a side part of the container; the power cord connecting the circulation pump and the heater.

5. The footbath bucket as claimed in claim 3, wherein the baffle is tilted; a height
20 of the outlet hole being lower than a height of the inlet hole.

6. The footbath bucket as claimed in claim 1, wherein:

a drain port is formed on a side part of the container; the drain port spatially communicating with the lower space;

a protective cover is detachably mounted on the drain port.

25 7. The footbath bucket as claimed in claim 1, wherein an installing seat is formed

on a side part of the container; the inflation duct vertically mounted on the installing seat.

8. The footbath bucket as claimed in claim 7, wherein a spa machine is mounted on the installing seat; the spa machine connected to the inflation duct by plugging.

5 9. The footbath bucket as claimed in claim 7, wherein an installing cavity is formed on the container and corresponds in location to the spa machine; the installing seat is mounted in the installing cavity.

10. The footbath bucket as claimed in claim 1, wherein a cushion is mounted on an edge of the top opening of the container; the edge of the top opening being away from the inflation duct.