

RADIATION SAUNA BATH APPARATUS

This invention relates to a radiation sauna bath apparatus, more particularly to a radiation sauna bath apparatus including a rays generating unit for generating infrared rays in a sauna therapy, and a foot massaging unit.

A conventional far infrared rays sauna bath apparatus normally includes a housing, a seat mounted in the housing for the user to sit thereon, and a plurality of far infrared rays generating units for generating infrared rays in a sauna therapy. However, since there are only the far infrared rays generating units and the seat are mounted in the housing, the user can merely stay in the housing to carry out the infrared sauna therapy process.

The object of the present invention is to provide a radiation sauna bath apparatus which can be used to carry out infrared sauna therapy and foot massaging processes.

According to this invention, the radiation sauna bath apparatus includes a housing having a bottom wall which is provided with a floor surface, a surrounding wall which extends from a periphery of the bottom wall upwardly to cooperatively confine an inner space with the bottom wall, and which defines an access opening to permit a user to access the inner space, and a door which is pivotally mounted on the surrounding wall to close the access opening. The bottom wall has a recess which extends inwardly and downwardly of the floor surface. A seat is disposed in the inner space, and is spaced apart from the floor surface for the user to sit thereon. A rays

generating unit is disposed in the inner space to generate infrared rays for infrared sauna therapy. A foot massaging unit is disposed in the recess, and has a massaging member for massaging the sole of a user's foot.

5 Other features and advantages of the present invention will become apparent in the following detailed description of the preferred embodiments of the invention, with reference to the accompanying drawings, in which:

10 Fig. 1 is a perspective view of the first preferred embodiment of a radiation sauna bath apparatus according to this invention;

 Fig. 2 is a fragmentary sectional view of the first preferred embodiment;

15 Fig. 3 is a sectional view of the first preferred embodiment but taken from another angle;

 Fig. 4 is a fragmentary exploded perspective view of a foot massaging unit of the first preferred embodiment;

20 Fig. 5 is a perspective view of the second preferred embodiment of a radiation sauna bath apparatus according to this invention, a housing thereof being removed for the sake of clarity; and

 Fig. 6 is a sectional view of the second preferred embodiment.

25 Before the present invention is described in greater detail, it should be noted that same reference numerals have been used to denote like elements throughout the specification.

 Referring to Figs. 1 to 3, the first preferred embodiment

of a radiation sauna bath apparatus according to the present invention is shown to comprise a housing 3, a seat 4, two first rays generating unit 5, two foot massaging units 6, a control unit 71, a stereo sound system 72, and a lighting unit 73.

The housing 3 includes a bottom wall 33 which has a floor surface 331, a surrounding wall 31 which extends from a periphery of the bottom wall 33 upwardly to cooperatively confine an inner space 30 with the bottom wall 33, and which defines an access opening 34 to permit a user to access the inner space 30, a top wall 35 which is opposite to the bottom wall 33, and a door 32 which is pivotally mounted on the surrounding wall 31 to close the access opening 34. The surrounding wall 31 includes a backside wall portion 312 which confronts and which is opposite to the door 32 in a longitudinal direction, and left and right wall portions 313, 314 which are respectively interposed between the door 32 and the backside wall portion 312, and which confront and which are opposite to each other in a lateral direction. The bottom wall 33 has two recesses 332 which extend inwardly and downwardly of the floor surface 331 and which are spaced apart from each other in the lateral direction. The top wall 35 has an air hole region 311 formed with a plurality of air holes. The door 32 has a plurality of air passages 321 formed in a lower portion thereof to be in fluid communication with the inner space 30.

The seat 4 is disposed in the inner space 30, and is secured

onto the backside wall portion 312 so as to be spaced apart from the floor surface 331 for the user to sit thereon.

The first rays generating units 5 are disposed in the inner space 30, and are mounted on the left and right wall portions 313, 314, respectively, at different height levels. Each of the first rays generating units 5 includes a casing 51 which is fitted into an inner recess of the respective one of the left and right wall portions 313, 314, three upright ceramic tubes 52 which are disposed in the casing 51, which are spaced apart from one another, and which emit far infrared rays for infrared sauna therapy, and a grid 53 which is disposed to cover an opening of the casing 51 so as to prevent the user from coming into contact with the ceramic tubes 52. It is noted that the arrangement of the first rays generating units 5 and the number of the ceramic tubes 52 are not limited to that which is disclosed hereinabove.

Referring to Figs. 2 and 4, the foot massaging units 6 are disposed in the recesses 332, respectively. Each of the foot massaging units 6 has a casing 61 which is disposed in the recess 332, and a massaging member 62 including four rollers 621 which are rollably mounted in the casing 61 and which are displaced from one another in the longitudinal direction. Each of the foot massaging units 6 has massaging protrusions on an outer surface thereof for massaging a sole of the user's foot. In addition, each of the foot massaging units 6 further includes two ceramic tubes 63 which are disposed below the massaging member 62 and which extend in the longitudinal

direction so as to generate infrared rays for infrared sauna therapy of the sole of the user's foot, and two protecting grids 64 which are mounted between the massaging member 62 and the ceramic tubes 63.

5 Referring once again to Fig. 1, the control unit 71 is mounted on the surrounding wall 31 adjacent to the door 32, and is disposed to be operated by the user to regulate the operation time of the first rays generating unit 5 and the foot massaging units 6, respectively.

10 The stereo sound system 72 includes a music player 721 which is mounted on an outer surface of the surrounding wall 31 adjacent to the door 32, and four speakers 722 which are electrically connected to the music player 721, which are disposed in the inner space 30, and which are mounted at four
15 corners of the top wall 35. The lighting unit 73 is mounted on the top wall 35 in the inner space 30.

In this embodiment, the rollers 621 of the massaging member 62 are disposed to be rolled by the user's foot, and are placed at the same horizontal level. However, the rollers 621 may
20 also be provided to be rolled by a power source (not shown), and are arranged in a slanting manner from front to rear for comfortable resting of the user's foot thereon.

Referring to Figs. 5 and 6, the second preferred embodiment of a radiation sauna bath apparatus according to this invention
25 is shown to be similar to the previous embodiment in construction. The differences reside in that a second rays generating device 8 is additionally mounted on the backside

wall portion 312 of the housing 3 and under the seat 4, and includes a casing 81 with an opening facing upwardly and forwardly, two ceramic tubes 82 which are disposed in the casing 81 to generate infrared rays for infrared sauna therapy of the user's legs, and a grid 83 which is disposed to cover the opening of the casing 81 so as to prevent the user from coming into contact with the ceramic tubes 82. The seat 4 includes a seat portion 41 and a backrest portion 42 which are formed by a plurality of spaced apart bars 411, 421 such that far infrared rays generated by the second rays generating device 8 can pass through clearances between two adjacent ones of the bars 411, 421 to reach the back and the lower part of the user's body for infrared therapy. Moreover, the bars 421 of the backrest portion 42 can be configured to fit the contour of the user's back to enhance comfort.

CLAIMS:

1. A radiation sauna bath apparatus comprising:

a housing including a bottom wall which has a floor surface,
a surrounding wall which extends from a periphery of said
bottom wall upwardly to cooperatively confine an inner space
with said bottom wall, and which defines an access opening
to permit a user to access said inner space, and a door
which is pivotally mounted on said surrounding wall to close
said access opening;

a seat disposed in said inner space and spaced apart
from said floor surface for the user to sit thereon; and

at least one first rays generating unit disposed in said
inner space and generating infrared rays for infrared sauna
therapy, characterized in that:

said bottom wall having a recess which extends inwardly
and downwardly of said floor surface;

at least one foot massaging unit disposed in said recess,
and having a massaging member for massaging a sole of the
user's foot.

2. The radiation sauna bath apparatus of Claim 1,
characterized in that said massaging member includes a
plurality of rollers which are rollably mounted in said
bottom wall and each of which has massaging protrusions
on an outer surface thereof.

3. The radiation sauna bath apparatus of Claim 1,
characterized in that said foot massaging unit further
includes at least one ceramic tube which is disposed below

said massaging member and which generates infrared rays for infrared sauna therapy of the sole of the user's foot.

4. The radiation sauna bath apparatus of Claim 1, characterized in that said surrounding wall includes a
5 backside wall portion which confronts and which is opposite to said door, and left and right wall portions which are respectively interposed between said door and said backside wall portion, and which confront and which are opposite to each other, said seat being secured onto said
10 backside wall portion, said first rays generating device being mounted on one of said left and right wall portions.
5. The radiation sauna bath apparatus of Claim 4, further characterized by a second rays generating device which is mounted on said backside wall portion and under said
15 seat so as to generate infrared rays for infrared sauna therapy of the user's legs.
6. The radiation sauna bath apparatus of Claim 1, characterized in that said first rays generating device includes a casing which is disposed on said one of said
20 left and right wall portions, and a plurality of ceramic tubes which are disposed in said casing for emitting far infrared rays.