Claims

1. A training apparatus capable of rotating in only two-axes for training neuraxis of a trainee comprising:

a base including a plurality of extending legs, wherein each of the plurality of extending legs has a slip-resisting device being disposed at the distal end of the legs;

a frame with a horizontal bottom and two lateral upright sides, wherein the frame is rotatably mounted on the base through the horizontal bottom by a vertical shaft, and wherein the two upright sides defines a vertical axis;

a cabin for receiving the trainee, wherein the cabin has a yaw-axis, a pitch-axis and a roll-axis that are perpendicular to each other, wherein the cabin is pivoted to the two lateral upright sides through a first lateral shaft and a second lateral shaft of the frame, wherein the first and second lateral shafts defines a lateral axis that perpendicular to the vertical axis, and wherein when the cabin is in an upright orientation, the yaw-axis and the pitch axis of the cabin is in line with the vertical axis and lateral axis respectively;

a driving assembly that operatively drives the rotations of the frame and cabin to rotate about the vertical axis and lateral axis respectively, wherein the cabin is operationally reclined about the lateral axis into a recumbent orientation, and is rotated about the vertical axis while maintaining the cabin in the recumbent orientation to render a roll-axis rotation in relation to the cabin.

2. The apparatus according to claim 1, wherein the rotation of the frame about the vertical axis is independent of the rotation of the cabin about the lateral axis.

3. The apparatus according to claim 1, wherein the rotation of the frame about the vertical axis the rotation of the cabin about the lateral axis can be provided in any combination of rotations.

4. The apparatus according to claim 1, further comprises a computer system for controlling the operations thereof.

5. The apparatus according to claim 4, wherein the computer system further comprises:

a storage device for storing instructions and training protocols for training neuraxis;

a processor for executing operations of the training apparatus**;**

a displaying device for displaying operation parameters of the training apparatus to an operator; and

an input device that allows the operator to input personal information of the trainee.

6. The apparatus according to claim 5, wherein the storage device is further configured to operatively store the personal information of the trainee.

7. The apparatus according to claim 5, wherein the training protocols are determined according to the needs of the trainee.

8. The apparatus according to claim 1, wherein the cabin further comprises a seat for the trainee to sit thereon.

9. The apparatus according to claim 8, further comprises a fastening means operable to allow the trainee to be seated securely on the seat.

10. The apparatus according to claim 1, further comprises an alarm that gives a signal about a problem related to the training apparatus.

~~11. A method for rendering a roll axis rotation to a cabin of a training apparatus, comprising:~~

~~providing the training apparatus comprising:~~

~~a base;~~

~~a frame with a horizontal bottom and two lateral upright sides, wherein the frame is rotatably mounted on the base through the horizontal bottom by a vertical shaft, and wherein the two upright sides defines a vertical axis;~~

~~the cabin for receiving the trainee, wherein the cabin has a yaw-axis, a pitch axis and a roll axis that are perpendicular to each other, wherein the cabin is pivoted to the two lateral upright sides through a first lateral shaft and a second lateral shaft of the frame, wherein the first and second lateral shafts defines a lateral axis that perpendicular to the vertical axis, and wherein when the cabin is in an upright orientation, the yaw-axis and the pitch axis of the cabin is in line with the vertical axis and lateral axis respectively;~~

~~a driving assembly that operatively drives the rotation of the frame and cabin to rotate about the vertical axis and horizontal axis, respectively;~~

~~reclining the cabin to a recumbent orientation relative to the base and maintaining the cabin in the recumbent orientation; and~~

~~rotating the frame about the vertical axis to render the roll-axis rotation in relation to the cabin.~~

~~12. A method of claim 11, wherein the base includes a plurality of extending legs, wherein each of the plurality of extending legs has a slip-resisting device being disposed at the distal end of the legs.~~