WHAT IS CLAIMED IS:

1. A motion simulating apparatus comprising:

a support base;

a coupling part, pivotally connected to the support base about a first pivot axis;

an occupant platform adapted to carry one or more occupants, the occupant platform being disposed above the support base and pivotally connected to the coupling part about a second pivot axis, the first pivot axis being substantially orthogonal to the second pivot axis; and

an actuating system connected with the occupant platform, the actuating system being operable to cause the occupant platform to rotate about the first pivot axis and the second pivot axis, characterized in that

the first pivot axis is located at an underside of the second pivot axis.

2. The motion simulating apparatus according to claim 1, wherein the actuating system includes at least one linear actuator that is pivotally connected to the occupant platform at a first pivot connecting location and is pivotally connected to the support base at a second pivot connecting location;

wherein, optionally, the occupant platform is pivotally connected to the coupling part at a third pivot connecting location, the third pivot connecting location being at a height relative to the support base that is between a height of the first pivot connecting location relative to the support base and a height of the second pivot connecting location relative to the support base; and/or

wherein, optionally, the linear actuator is tilted an angle relative to the second pivot axis.

3. The motion simulating apparatus according to claim 1 or 2, further comprising a bottom part and a motor, the support base being pivotally connected to the bottom part about a third pivot axis that extends substantially vertically, the motor being operable to drive the support base to rotate about the third pivot axis relative to the bottom part; and/or wherein the coupling part includes a frame portion and two extensions, the frame portion being adapted to couple to the occupant platform, the two extensions protruding at an underside of the frame portion and being respectively connected pivotally to the support base about the first pivot axis.

4. The motion simulating apparatus according to any one of claims 1 to 3, wherein the support base includes a support frame, and the coupling part includes two brackets that are respectively connected with the support frame via two cushioning parts; and/or wherein the first pivot axis is a pitch axis, and the second pivot axis is a roll axis.

5. The motion simulating apparatus according to claim 1, wherein the actuating system comprises:

two linear actuators respectively disposed at two opposite sides of the second pivot axis, wherein the two linear actuators are respectively connected pivotally to the support base and are respectively connected pivotally to the occupant platform at the two opposite sides of the second pivot axis.

6. The motion simulating apparatus according to claim 5, wherein the two linear actuators are symmetrically disposed at the two opposite sides of the second pivot axis; and/or

wherein the two linear actuators are parallel to each other and are respectively connected pivotally to the occupant platform at two pivot connecting locations, the second pivot axis being substantially equidistant to the two pivot connecting locations.

7. The motion simulating apparatus according to claim 5 or 6, wherein the two linear actuators are tilted an angle relative to the second pivot axis; and/or

wherein the two linear actuators are operable to cause the occupant platform to rotate about the first pivot axis; and/or

wherein the two linear actuators are operable to cause the occupant platform to rotate about the second pivot axis.

8. The motion simulating apparatus according to any one of claims 5 to 7, wherein the two linear actuators are respectively connected pivotally to the occupant platform at two first pivot connecting locations and are respectively connected pivotally to the support base at two second pivot connecting locations, and the occupant platform is pivotally connected to the coupling part at a third pivot connecting location, the third pivot connecting location being at a height relative to the support base that is between a height of the two first pivot connecting locations relative to the support base and a height of the two second pivot connecting locations relative to the support base.

9. The motion simulating apparatus according to any one of claims 5 to 8, wherein the coupling part includes a frame portion and two extensions, the frame portion being adapted to couple to the occupant platform, the two extensions protruding at an underside of the frame portion and being respectively connected pivotally to the support base about the first pivot axis.

10. The motion simulating apparatus according to any one of claims 5 to 9, wherein the occupant platform includes at least one seat, and a seat support frame fixedly connected with a backrest portion of the at least one seat, the seat support frame being pivotally connected to the coupling part about the second pivot axis at a rear of the at least one seat.

11. The motion simulating apparatus according to any one of claims 5 to 10, further comprising a bottom part and a motor, the support base being pivotally connected to the bottom part about a third pivot axis that extends substantially vertically, the motor being operable to drive the support base to rotate about the third pivot axis relative to the bottom part.

12. The motion simulating apparatus according to any one of claims 5 to 11, wherein the support base includes a support frame, and the coupling part includes two brackets that are respectively connected with the support frame via two cushioning parts.

13. The motion simulating apparatus according to any one of claims 5 to 12, wherein the first pivot axis is a pitch axis, and the second pivot axis is a roll axis.