stopped in unexpected situations, such as cases in which an occupant makes a sudden movement resulting in the moving seat interfering with the occupant or another seat.

[0024] A vehicle seat control device according to a seventh aspect includes: a first seat arrangement information acquisition section configured to acquire position information of a first seat arrangement representing current seat positions of plural seats that are configured to be capable of moving in a cabin interior; a second seat arrangement information acquisition section configured to acquire position information of a second seat arrangement representing post-movement seat positions of the plural seats; a path identification section configured to identify a movement path of a moving seat of the plural seats when moving from the first seat arrangement acquired by the first seat arrangement information acquisition section to the second seat arrangement acquired by the second seat arrangement information acquisition section; an occupant detection section configured to detect occupants sitting on the plural seats; a seat operation section configured to operate the moving seat so as to move the moving seat along the movement path identified by the path identification section, and a warning generation section configured to issue a warning. In a case in which an occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected by the occupant detection section, the seat operation section is controlled so as to move the other seat in a direction away from the moving seat before moving the moving seat along the movement path to the second seat arrangement. The warning generation section is controlled so as to issue the warning coordinated with movement of the moving seat in a case in which an occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected by the occupant detection section.

[0025] The vehicle seat control device according to the seventh aspect includes the first seat arrangement information acquisition section, the second seat arrangement information acquisition section, the path identification section, the occupant detection section, and the seat operation section. The first seat arrangement information acquisition section acquires position information of the first seat arrangement representing the current seat positions of the plural seats that are configured to be capable of moving in the cabin interior. The second seat arrangement information acquisition section acquires position information of the second seat arrangement representing the post-movement seat positions of the plural seats. The path identification section identifies the movement path of the moving seat when moving from the first seat arrangement acquired by the first seat arrangement information acquisition section to the second seat arrangement acquired by the second seat arrangement information acquisition section. The occupant detection section detects for occupants sitting on the plural seats. The seat operation section operates the moving seat so as to move along the movement path.

[0026] In the present aspect, in a case in which an occupant sitting on the other seat disposed peripherally to the movement path of the moving seat has been detected by the occupant detection section, the vehicle seat control device moves the other seat in a direction away from the moving seat before moving the moving seat along the movement path to the second

seat arrangement.

[0027] Namely, in the present aspect, in a case in which an occupant is sitting on the other seat disposed peripherally to the movement path of the moving seat, this other seat is moved in a direction away from the moving seat (more specifically, away from the second seat arrangement), thereby enabling a separation distance between the moving seat and the other seat to be increased. After the separation distance between the moving seat and the other seat has been increased, the moving seat is then moved along the movement path to the second seat arrangement.

[0028] In the present aspect, since the moving seat is moved toward the other seat after the other seat has first been moved away from the moving seat, interference between the moving seat and the occupant sitting on the other seat can be prevented or suppressed.

[0029] The vehicle seat control device according to the first aspect has an excellent advantageous effect of enabling interference between the moving seat and the occupant sitting on the other seat when the moving seat is moving to be prevented or suppressed.

[0030] The vehicle seat control device according to the second aspect has an excellent advantageous effect of enabling interference between the moving seat and the occupant sitting on the other seat to be suppressed by moving the moving seat at a slower speed.

[0031] The vehicle seat control device according to the third aspect has an excellent advantageous effect of enabling interference between the moving seat and the occupant sitting on the other seat to be avoided by not allowing the moving seat to move.

[0032] The vehicle seat control device according to the fourth aspect has an excellent advantageous effect of enabling interference with the moving seat to be avoided by issuing a warning when the moving seat moves such that the occupant withdraws their legs or the like.

[0033] The vehicle seat control device according to the fifth aspect has an excellent advantageous effect of enabling disturbance felt toward the warning by occupants other than the occupant seated in the other seat disposed peripherally to the movement path of the moving seat to be alleviated.

[0034] The vehicle seat control device according to the sixth aspect has an excellent advantageous effect of enabling unexpected situations to be dealt with by stopping the moving seat for example in a case in which an occupant moves suddenly such that the occupant interferes with the moving seat.

[0035] The vehicle seat control device according to the seventh aspect has an excellent advantageous effect of enabling interference between the moving seat and the occupant sitting on the other seat when the moving seat is moving to be prevented or suppressed.

[0035a] A vehicle seat control method being performed by a processor according to an eighth

aspect includes acquiring position information of a first seat arrangement representing current seat positions of a plurality of seats that are configured to be capable of moving in a cabin interior; acquiring position information of a second seat arrangement representing post-movement seat positions of the plurality of seats; identifying a movement path of a moving seat of the plurality of seats when moving from the acquired first seat arrangement to the acquired second seat arrangement; detecting occupants sitting on the plurality of seats; and operating the moving seat so as to move the moving seat along the identified movement path, wherein, in a case in which an occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected, the vehicle seat control method further comprises controlling so as to execute any one action of the group consisting of reducing a movement speed of the moving seat, canceling movement of the moving seat, and shortening a movement distance of the moving seat, or controlling so as to move the other seat in a direction away from the moving seat before moving the moving seat along the movement path to the second seat arrangement, issuing a warning coordinated with movement of the moving seat in a case in which an occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected.

[0035b] A non-transitory storage medium storing a program executable by a processor to perform a vehicle seat control process, the process according to a ninth aspect includes acquiring position information of a first seat arrangement representing current seat positions of a plurality of seats that are configured to be capable of moving in a cabin interior; acquiring position information of a second seat arrangement representing post-movement seat positions of the plurality of seats; identifying a movement path of a moving seat of the plurality of seats when moving from the acquired first seat arrangement to the acquired second seat arrangement; detecting occupants sitting on the plurality of seats; and operating the moving seat so as to move the moving seat along the identified movement path, wherein, in a case in which an occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected, the process further comprises controlling so as to execute any one action of the group consisting of reducing a movement speed of the moving seat, canceling movement of the moving seat, and shortening a movement distance of the moving seat, or controlling so as to move the other seat in a direction away from the moving seat before moving the moving seat along the movement path to the second seat arrangement, issuing a warning coordinated with movement of the moving seat in a case in which an occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected.

CLAIMS:

1. A vehicle seat control device comprising:

a first seat arrangement information acquisition section configured to acquire position information of a first seat arrangement representing current seat positions of a plurality of seats that are configured to be capable of moving in a cabin interior;

a second seat arrangement information acquisition section configured to acquire position information of a second seat arrangement representing post-movement seat positions of the plurality of seats;

a path identification section configured to identify a movement path of a moving seat of the plurality of seats when moving from the first seat arrangement acquired by the first seat arrangement information acquisition section to the second seat arrangement acquired by the second seat arrangement information acquisition section;

an occupant detection section configured to detect occupants sitting on the plurality of seats;

a seat operation section configured to operate the moving seat so as to move the moving seat along the movement path identified by the path identification section, and

a warning generation section configured to issue a warning,

wherein, in a case in which an occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected by the occupant detection section,

the seat operation section is controlled so as to execute any one action of the group consisting of reducing a movement speed of the moving seat, canceling movement of the moving seat, and shortening a movement distance of the moving seat, or

the seat operation section is controlled so as to move the another seat in a direction away from the moving seat before moving the moving seat along the movement path to the second seat arrangement,

wherein the warning generation section is controlled so as to issue the warning coordinated with the movement of the moving seat in a case in which the occupant sitting on the another seat disposed peripherally to the movement path of the moving seat has been detected by the occupant detection section.

2. The vehicle seat control device of claim 1, wherein, in a case in which the occupant sitting on the another seat disposed peripherally to the movement path of the moving seat has been detected by the occupant detection section, the seat operation section is controlled so as to reduce the movement speed of the moving seat in comparison to a case in which there is no

detection of any occupant sitting on the another seat.

3. The vehicle seat control device of claim 1, further comprising a movement distance computation section configured to compute the movement distance of the moving seat,

wherein the seat operation section is controlled so as to cancel the movement of the moving seat in a case in which a distance between the moving seat at the first seat arrangement and an occupant sitting on another seat is smaller than the movement distance of the moving seat when moving from the first seat arrangement to the second seat arrangement.

4. The vehicle seat control device of claim 1, wherein, in a case in which the occupant sitting on the another seat disposed peripherally to the movement path of the moving seat has been detected by the occupant detection section, the warning generation section is controlled so as to issue the warning to the occupant sitting on the another seat.

5. The vehicle seat control device of any one of claim 1 to claim 4, wherein the seat operation section is controlled so as to stop the moving seat in a case in which the moving seat has interfered with another occupant or another seat.

6. A vehicle seat control method being performed by a processor, the vehicle seat control method comprising:

acquiring position information of a first seat arrangement representing current seat positions of a plurality of seats that are configured to be capable of moving in a cabin interior;

acquiring position information of a second seat arrangement representing post-movement seat positions of the plurality of seats;

identifying a movement path of a moving seat of the plurality of seats when moving from the acquired first seat arrangement to the acquired second seat arrangement;

detecting occupants sitting on the plurality of seats; and

operating the moving seat so as to move the moving seat along the identified movement path,

wherein, in a case in which an occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected, the vehicle seat control method further comprises

controlling so as to execute any one action of the group consisting of reducing a movement speed of the moving seat, canceling movement of the moving seat, and shortening a movement distance of the moving seat, or

controlling so as to move the other seat in a direction away from the moving seat before moving the moving seat along the movement path to the second seat arrangement,

issuing a warning coordinated with the movement of the moving seat in a case in which the occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected.

7. The vehicle seat control method of claim 6, further comprising, in a case in which the occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected, reducing the movement speed of the moving seat in comparison to a case in which there is no detection of any occupant sitting on the another seat.

8. The vehicle seat control method of claim 6, further comprising:

computing the movement distance of the moving seat; and

cancelling the movement of the moving seat in a case in which a distance between the moving seat at the first seat arrangement and an occupant sitting on another seat is smaller than the movement distance of the moving seat when moving from the first seat arrangement to the second seat arrangement.

9. The vehicle seat control method of claim 6, further comprising, in a case in which the occupant sitting on the another seat disposed peripherally to the movement path of the moving seat has been detected, issuing the warning to the occupant sitting on the another seat.

10. The vehicle seat control method of any one of claim 6 to claim 9, further comprising stopping the moving seat in a case in which the moving seat has interfered with another occupant or another seat.

11. A non-transitory storage medium storing a program executable by a processor to perform a vehicle seat control process, the process comprising:

acquiring position information of a first seat arrangement representing current seat positions of a plurality of seats that are configured to be capable of moving in a cabin interior;

acquiring position information of a second seat arrangement representing post-movement seat positions of the plurality of seats;

identifying a movement path of a moving seat of the plurality of seats when moving from the acquired first seat arrangement to the acquired second seat arrangement;

detecting occupants sitting on the plurality of seats; and

operating the moving seat so as to move the moving seat along the identified movement path,

wherein, in a case in which an occupant sitting on another seat disposed peripherally to the movement path of the moving seat has been detected, the process further comprises

controlling so as to execute any one action of the group consisting of reducing a movement speed of the moving seat, canceling movement of the moving seat, and shortening a movement distance of the moving seat, or

controlling so as to move the other seat in a direction away from the moving seat before moving the moving seat along the movement path to the second seat arrangement,

issuing a warning coordinated with the movement of the moving seat in a case in which the occupant sitting on the another seat disposed peripherally to the movement path of the moving seat has been detected.

12. The non-transitory storage medium of claim 11, wherein the process further comprises, in a case in which the occupant sitting on the another seat disposed peripherally to the movement path of the moving seat has been detected, reducing the movement speed of the moving seat in comparison to a case in which there is no detection of any occupant sitting on the another seat.

13. The non-transitory storage medium of claim 11, wherein the process further comprises:

computing the movement distance of the moving seat; and

cancelling the movement of the moving seat in a case in which a distance between the moving seat at the first seat arrangement and an occupant sitting on another seat is smaller than the movement distance of the moving seat when moving from the first seat arrangement to the second seat arrangement.

14. The non-transitory storage medium of claim 11, wherein the process further comprises, in a case in which the occupant sitting on the another seat disposed peripherally to the movement path of the moving seat has been detected, issuing the warning to the occupant sitting on the another seat.

15. The non-transitory storage medium of any one of claim 11 to claim 14, wherein the process further comprises stopping the moving seat in a case in which the moving seat has interfered with another occupant or another seat.