CLAIMS

1. A seat structure for a passenger seat, the seat structure comprising:

a first seat pan for mounting to a frame structure of the passenger seat;

a second seat pan for disposing above the first seat pan such that the second seat pan is moveable relative to the first seat pan in forward and backward directions with reference to the frame structure, the second seat pan being rigid,

wherein the first seat pan or a guiding structure of the seat structure is configured for guiding the movement of the second seat pan on a curved trajectory along the forward and backward directions;

and wherein the respective profiles of the first and second seat pans are matched.

2. The seat structure as claimed in claim 1, wherein the second seat pan is moveable relative to the first seat pan independent from or coordinated with movement of a seat back of the passenger seat.

3. The seat structure as claimed in claims 1 or 2, wherein the guiding structure comprises interface structures for mounting to the frame structure.

4. The seat structure as claimed in any one of claims 1 to 3, wherein the curved trajectory comprises first and second opposing ends and an intermediate portion between the first and second ends, the intermediate portion being at a vertically lower position compared to the first and second ends.

5. The seat structure as claimed in any one of claims 1 to 4, wherein the first and second seat pans have substantially matching curvatures along respective depths thereof.

6. The seat structure as claimed in any one of claims 1 to 5, further comprising a roller mechanism or a sliding mechanism for the movement of the second seat pan relative to the first seat pan.

7. The seat structure as claimed in any one of claims 1 to 6, wherein one of the first and second seat pans comprises one or more slider blocks for being received in corresponding one or more retainer frames formed in the other.

8. The seat structure as claimed in any one of claims 1 to 7, further comprising biasing means for biasing the first and second seat pans in a first relative position to each other.

9. The seat structure as claimed in claim 8, wherein the biasing means comprises one or more springs.

10. The seat structure as claimed in claims 8 or 9, wherein in the first relative position, the second seat pan is substantially at a maximum backward position.

11. The seat structure as claimed in any one of claims 1 to 10, wherein the second seat pan is corrugated.

12. The seat structure as claimed in claim 11, wherein the second seat pan is corrugated along one or more directions thereof.

13. The seat structure as claimed in claims 11 or 12, wherein the first seat pan has substantially parallel curved top and bottom surfaces.

14. The seat structure as claimed in any one of claims 1 to 13, further comprising one or more retaining structures for limiting the relative movement of the first and second seat pans to a maximum displacement.

15. The seat structure as claimed in claim 14, wherein each retaining structure comprises a first element on one of the first and second seat pans and a second element on the other, for abutting each other at the maximum displacement.

16. The seat structure as claimed in any one of claims 1 to 15, wherein the second seat pan is further configured for receiving a force exerted by a seat back of the passenger seat for movement of the second seat pan relative to the first seat pan.

17. The seat structure as claimed in claim 16, wherein the second seat pan is configured to receive a pushing force exerted by the seat back.

18. The seat structure as claimed in claim 17, wherein the second seat pan is configured to receive the pushing force as a result of reclining of the seat back.

19. The seat structure as claimed in any one of claims 16 to 18, wherein the second seat pan comprises a flat surface disposed for receiving the force.

20. The seat structure as claimed in any one of claims 16 to 18, wherein the second seat pan comprises a surface with a recess formed therein for receiving the force.

21. The seat structure as claimed in claims 19 or 20, wherein the flat surface or the surface with the recess is disposed at one end of the second seat pan and extending substantially across a corrugation pattern of the second seat pan.

22. The seat structure as claimed in any one of claims 1 to 21, comprising a plurality of second seat pans and a common first seat pan.

23. A passenger seat comprising a seat structure as claimed in any one of the preceding claims.