CLAIMS:

1. A seat comprising:

a moveable seat carriage having a seat pan and a seat back supported thereon;

a seat base supporting the moveable seat carriage thereupon;

a support member comprising a scissor mechanism including a primary pair of arms pivotably coupled together and moveable between (i) a retracted configuration in which the primary pair of arms lie substantially on top of each other in a first direction and (ii) an extended configuration in which the primary pair of arms lie substantially on top of each other in a second direction perpendicular to the first direction, wherein a respective first end of each of the primary pair of arms is coupled to the moveable seat carriage and a respective second end of each of the primary pair of arms is coupled to the seat base; and

an actuator to move the moveable seat carriage relative to the seat base to thereby transition the seat between an upright position and a reclined position, with the movement of the seat carriage driving the support member between the retracted configuration and the extended configuration,

wherein, the support member stiffens the seat as the seat transitions away from the upright to the reclined position and while in the reclined position.

2. The seat according to claim 1, wherein the primary pair of arms is coupled together for pivoting movement about an axis extending perpendicular to a plane of each of the primary pair of arms.

3. The seat according to claim 2, wherein the axis bisects each of the primary pair of arms between the respective first and second ends thereof.

4. The seat according to claim 3~~ or claim 4~~, wherein the scissor mechanism further comprises:

a secondary pair of arms, the secondary pair of arms pivotally connected to one another at first ends thereof to form a V-shaped arrangement when viewed in plan view;

each second end of the secondary pair of arms being pivotally connected to one of each of the ~~first~~ second ends of the primary pair of arms, respectively

such that the ~~first~~ second ends of the primary pair of arms are coupled to the seat base via the secondary pair of arms.

5. The seat according to claim 4, wherein the scissor mechanism further comprises:

a tertiary pair of arms, the tertiary pair of arms pivotally connected to one another at first ends thereof to form a V-shaped arrangement when viewed in plan view;

each second end of the tertiary pair of arms being pivotally connected to one of each of the ~~second~~ first ends of the primary pair of arms, respectively

such that the ~~second~~ first ends of the primary pair of arms are coupled to the moveable seat carriage via the tertiary pair of arms.

6. The seat according to any one of the preceding claims, wherein the moveable seat carriage comprises a seat pan frame and a complementary seat frame which support the seat pan and the seat back.

7. The seat according to claim 6, wherein the seat frame comprises a cam surface and the seat pan frame comprises a cam follower, with the cam follower movably supported on the cam surface, such that movement of the seat pan frame relative to the seat frame follows the cam surface to vary orientation of the seat pan frame.

8. The seat according to any one of the preceding claims, wherein the seat back is pivotally connected to the seat pan, such that movement of the seat pan causes movement of the seat back.

9. The seat according to any one of the preceding claims, comprising a deployment mechanism connected to the seat back, such that, in use, as the movable seat carriage moves away from the seat base, the deployment mechanism is caused to move a pair of wings mounted to the seat back.

10. The seat according to claim 9, wherein the pair of wings is coupled on opposing sides of the seat back and the wings are configured to move between an operative position where the wings extend from the seat back in an angled configuration and a storage position where the wings extend in alignment with the seat back to provide a substantially flat seat back.

11. The seat according to ~~claim 9 or~~ claim 10, wherein the deployment mechanism comprises a pair of telescoping members, an outboard end of each being respectively coupled to one of the pair of wings.

12. The seat according to claim 11, wherein the outboard end of each of the pair of telescoping members is coupled with each of the wings respectively, such that movement of the movable seat carriage towards the seat base causes the telescoping members to urge the wings of the seat back into the operative position.

13. The seat according to ~~any one of~~ claim ~~s 10 to~~ 12, wherein each wing comprises a front portion that is located on a passenger facing side of the seat and a rear portion that is located on a rear facing side of the seat.

14. The seat according to claim 13, wherein the front portion of each wing is rigidly connected to the rear portion of each wing and the rear portion extends through the seat, such that movement of the rear portion of the wing moves the front portion of the wing.

15. The seat according to claim 14, wherein an outboard end of each telescoping member engages with the respective rear portions of the wing to drive the wings between the storage position and the operative position.

16. The seat according to claim 15, comprises an armature extending along the seat ~~-~~back, the armature configured to respond to movement of the movable seat carriage and thereby effect movement of the outboard ends of each telescoping member along the arched track to move the wings between the operative position and the storage position.

17. The seat according to any one of claims ~~9~~ 11 to 16, wherein an inboard end of each of the pair of telescoping members is movably mounted to a seat back frame, such that when the movable seat carriage moves the seat to a bed mode the telescoping members urge the wings into the storage position.

18. The seat according to any one of the preceding claims, wherein the seat is an aircraft seat.

19. A support member for a seat, the support member comprising:

a scissor mechanism including a primary pair of arms coupled together for pivoting movement about an axis extending perpendicular to a plane of each of the primary pair of arms, the primary pair of arms pivotable between (i) an extended configuration in which the primary pair of arms lie substantially on top of each other ~~parallel to the~~in a first direction and (ii) a retracted configuration in which the primary pair of arms lie substantially on top of each other in a second direction, perpendicular to the first direction~~; , and~~

wherein ~~the~~ first ends of each of the primary pair of arms are couplable with a moveable seat carriage ~~base~~ of the seat and ~~the~~ second ends of each of the primary pair of arms are couplable with a seat base~~moveable carriage~~ of the seat, such that, in use, movement of the moveable seat carriage away from the seat base causes movement of the scissor mechanism towards the extended configuration.

20. The support member according to claim 19, wherein the axis bisects each of the primary pair of arms between the respective ~~a~~ first ~~end~~ and ~~a~~ second ends thereof ~~each arm~~.

21. The support member according to claim 19 or claim 20, wherein the scissor mechanism further comprises:

a secondary pair of arms, the secondary pair of arms pivotally connected to one another at first ends thereof to form a V-shaped arrangement when viewed in plan view;

each second end of the secondary pair of arms being pivotally connected to one of each of the ~~first~~ second ends of the primary pair of arms, respectively

such that the ~~first~~ second ends of the primary pair of arms are couplable with the seat base via the secondary pair of arms.

22. The support member according to claim 21, wherein the scissor mechanism further comprises:

a tertiary pair of arms, the tertiary pair of arms pivotally connected to one another at first ends thereof to form a V-shaped arrangement when viewed in plan view;

each second end of the tertiary pair of arms being pivotally connected to one of each of the ~~second~~ first ends of the primary pair of arms, respectively

such that the ~~second~~ first ends of the primary pair of arms are couplable with the moveable seat carriage via the tertiary pair of arms.