Claims

1. A seat-back table comprising:

a table top,

a coupling member, the coupling member configured to pivotably couple the table top to a back of a passenger seat,

wherein the table top is configured to be collapsible into a folded state and expandable into an unfolded state,

wherein an area of a greatest exposed surface of the table top in the folded state is less than half of an area of the table top in the unfolded state for increasing a disposable space on the back of the passenger seat;

wherein the table top comprises six table leaves, wherein the six table leaves are arranged and joined along at least six joints; and

wherein the six table leaves comprise two trapezoid shaped table leaves and four right angled triangle shaped table leaves.

2. The seat-back table as claimed in claim 1, wherein the table top in the folded state has a substantially uniform thickness.

3. The seat-back table as claimed in claim 1, wherein the table top comprises a plurality of table leaves with one or more discontinuities at respective boundaries between adjacent sides of two of the table leaves.

4. The seat-back table as claimed in claim 3, further comprising one or more separately formed hinges interconnecting the adjacent sides of two of the table leaves across the one or more discontinuities.

5. The seat-back table as claimed in claim 3 or 4, wherein the table top is foldable along the one or more discontinuities to stack the plurality of table leaves such that the table top in the folded state has a substantially uniform thickness.

6. The seat-back table as claimed in any one of claims 1 to 5, wherein, the four right angled triangle shaped table leaves are sandwiched between the two trapezoid shaped table leaves in the folded state of the table top.

7. The seat-back table as claimed in claim 6, wherein two of the four right angled triangle shaped table leaves are sandwiched between first portions of the two trapezoid shaped table leaves and another two of the four right angled triangle shaped table leaves are sandwiched between second portions of the two trapezoid shaped table leaves.

8. The seat-back table as claimed in any one of claims claim 1 to 7, wherein a first lateral side of a first trapezoid shaped table leaf is joined to a hypotenuse of a first right angled triangle shaped table leaf along a first joint, a cathetus of the first right-angled triangle shaped table leaf is joined to a cathetus of a second right angled triangle shaped table leaf along a second joint, a hypotenuse of the second right angled triangle shaped table leaf is joined to a first lateral side of a second trapezoid shaped table leaf along a third joint, a second lateral side of the second trapezoid shaped table leaf is joined to a hypotenuse of a third right angled triangle shaped table leaf along a fourth joint, a cathetus of the third right angled triangle shaped table leaf is joined to a cathetus of a fourth right angled triangle shaped table leaf along a fifth joint, and a hypotenuse of the fourth right angled triangle shaped table leaf is joined to a second lateral side of the first trapezoid shaped table leaf along a sixth joint.

9. The seat-back table as claimed in any one of claims 1 to 8, wherein each joint comprises at least one hinge.

10. The seat-back table as claimed in claim 9, wherein the at least one hinge comprises a mechanical hinge.

11. The seat-back table as claimed in any one of claims 1 to 10, further comprising a cup holder coupled to an exposed surface of the table top in the folded state.

12. The seat-back table as claimed in any one of claims 1 to 11, wherein a surface of the table top in the unfolded state comprises an indentation for receiving a base of a cup.

13. The seat-back table as claimed in any one of claims 1 to 12, wherein the table top further comprises a slider mechanism.

14. The seat-back table as claimed in any one of claims 1 to 13, further comprising an arm, wherein a first end of the arm is pivotably coupled to the coupling member of the table top, and wherein a second end of the arm is configured to be coupled to the back of the passenger seat.

15. A seat-back comprising:

a seat-back body; and

a seat-back table, according to any one of claims 1 to 14, pivotably coupled to the seat-back body.

16. The seat-back according to claim 15, wherein the seat-back body comprises a recess configured to receive the seat-back table in the folded state.

17. The seat-back according to claim 16, further comprising a locking mechanism configured to lock the seat-back table in the folded state received in the recess of the seat-back body.

18. A method of manufacturing a seat-back table according to any one of claims 1 to 14, the method comprising:

providing a table top,

providing a coupling member configured to pivotably couple the table top to a back of a passenger seat, and

configuring the table top to be collapsible into a folded state and expandable into an unfolded state,

wherein an area of a greatest exposed surface of the table top in the folded state is less than half of an area of the table top in the unfolded state for increasing a disposable space on the back of the passenger seat.