**WHAT IS CLAIMED IS:**

1. A fixing belt assembly for securing a carrier to a vehicle seat, wherein

the carrier comprises a box body and a bottom support member, the bottom support member is detachably connected to the box body and is arranged below the box body, a storage space is disposed at the bottom of the bottom support member, and

the fixing belt assembly is configured to be connected to the carrier and at least a portion of the fixing belt assembly is capable of being stored in the storage space of the carrier.

2. The fixing belt assembly according to claim 1, wherein the fixing belt assembly comprises:

a first belt assembly, at least a portion of which being routed from a side of the carrier away from a backrest of the vehicle seat to a bottom of the carrier, and one end of the first belt assembly is provided with a first connecting device connected to a top of the vehicle seat; and

a second belt assembly provided at the bottom of the carrier, one end of the second belt assembly is connected to the other end of the first belt assembly, and the other end of the second belt assembly is provided with a second connecting device, and the second connecting device is connected to the vehicle seat, to secure the carrier to the vehicle seat.

3. The fixing belt assembly according to claim 2, wherein

the bottom support member is provided with a fixing belt limiting structure, and the fixing belt limiting structure is configured to position the fixing belt assembly, such that at least a portion of the fixing belt assembly is connected to the carrier.

4. The fixing belt assembly according to claim 3, wherein

the carrier further comprises a reinforcing bracket provided at an underside of the bottom support member, and the fixing belt limiting structure is provided on the reinforcing bracket; and/or

wherein the fixing belt limiting structure comprises two first limiting structures and two second limiting structures, and

a spacing between the two second limiting structures is greater than or equal to a spacing between the two first limiting structures.

5. The fixing belt assembly according to claim 3 or 4, wherein the fixing belt limiting

structure comprises:

a first tubular structure having a length extending along a longitudinal axis direction of the bottom support member;

a second tubular structure provided to intersect with the first tubular structure;

wherein a clearance gap through which the fixing belt assembly passes is formed on the first tubular structure or the second tubular structure, or between the first tubular structure and the second tubular structure.

6. The fixing belt assembly according to claim 5, wherein

the first tubular structure is provided substantially perpendicular to the second tubular structure; or

at least a portion of the second tubular structure is inclined relative to both the longitudinal axis direction and a transverse axis direction of the carrier, such that a distance between first ends of the two second tubular structures of the two fixing belt limiting structures is less than a distance between second ends of the two second tubular structures.

7. A carrier, wherein the carrier comprises

the fixing belt assembly according to any one of claims 1 to 6.

8. A connecting and fixing apparatus for securing a carrier to a vehicle seat, wherein the connecting and fixing apparatus comprises:

a first belt connecting assembly and a second belt connecting assembly, one end of the first belt connecting assembly forming a first connecting end of the connecting and fixing apparatus, the other end of the first belt connecting assembly being connected to one end of the second belt connecting assembly, and the other end of the second belt connecting assembly forming a second connecting end of the connecting and fixing apparatus, the first connecting end being connected to a first anchoring point, at least a portion of the connecting and fixing apparatus being routed from a side of the carrier away from a backrest of the vehicle seat to the underside of the carrier, so that the second connecting end is connected to a second anchoring point; and

a buffer structure provided on the connecting and fixing apparatus.

9. The connecting and fixing apparatus according to claim 8, wherein the buffer structure comprises at least one buffer belt, the two ends of which are respectively connected to the

connecting and fixing apparatus by a first fixing member and a second fixing member.

10. The connecting and fixing apparatus according to claim 9, wherein an initial effective length of the buffer belt between the first fixing member and the second fixing member is less than an initial effective length of the connecting and fixing apparatus between the first fixing member and the second fixing member; and/or

wherein an elongation of the buffer belt is greater than an elongation of the connecting and fixing apparatus on which the buffer belt is provided; and/or

wherein the buffer structure comprises at least one first knot point, and the at least one first knot point is provided on the connecting and fixing apparatus and located between the first fixing member and the second fixing member.

11. The connecting and fixing apparatus according to claim 9 or 10, wherein the buffer belt is provided with at least one second knot point,

wherein when the at least one second knot point is released, a buffering effective length of the buffer belt between the first fixing member and the second fixing member is greater than an effective length of the connecting and fixing apparatus between the first fixing member and the second fixing member, and an elongation of the buffer belt is less than an elongation of the connecting and fixing apparatus on which the buffer belt is provided.

12. A connecting and fixing apparatus for securing a carrier to a vehicle seat, wherein the connecting and fixing apparatus has a first connecting end and a second connecting end respectively connected to a first anchoring point and a second anchoring point, at least a portion of the connecting and fixing apparatus is routed around a side of the carrier away from a backrest of the vehicle seat,

the connecting and fixing apparatus comprises a first belt connecting assembly and a second belt connecting assembly detachably connected to each other, and the first belt connecting assembly comprises a first belt structure and a second belt structure,

wherein the first belt structure and the second belt structure are alternatively used and detachably connected to the second belt connecting assembly, and

wherein the first belt structure and the second belt structure have different elongations.

13. The connecting and fixing apparatus according to claim 12, wherein

the first belt structure comprises a first belt body as well as a first end and a second end

located at two ends of the first belt body, when the first belt structure is connected to the second belt connecting assembly, a first end of the first belt structure forms a first connecting end of the connecting and fixing apparatus, and the second end is detachably connected to the second belt connecting assembly;

the second belt structure comprises a second belt body as well as a first end and a second end located at two ends of the second belt body, when the second belt structure is connected to the second belt connecting assembly, a first end of the second belt structure forms a first connecting end of the connecting and fixing apparatus, and the second end is detachably connected to the second belt connecting assembly; and

the second end of the second belt connecting assembly forms the second connecting end.

14. The connecting and fixing apparatus according to claim 12 or 13, wherein

the elongation of the first belt structure is greater than the elongation of the second belt structure,

when the first anchoring point is close to the carrier, the first belt structure is connected to the second belt connecting assembly,

when the first anchoring point is away from the carrier, the second belt structure is connected to the second belt connecting assembly; and/or

wherein a buffer structure is provided on at least one of the first belt structure, the second belt structure, and the second belt connecting assembly.

15. A carrier, wherein

the carrier is secured to a vehicle seat by the connecting and fixing apparatus according to any one of claims 8 to 14.