CARRYCOT TO BE DETACHABLY MOUNTED ON A BASE BEING DISMOUNTABLY ATTACHED IN A VEHICLE OR ON A STROLLER FRAME

Field of the Invention

The present invention relates to a carrycot, a carrycot structure, and a child carrier according to the pre-characterizing clause of claims 1, 19 and 22.

Background of the Invention

Carrycots are one of juvenile products that can be installed on strollers or vehicle seats to provide comfortable and safe sleeping environments for children, and to help caregivers to look after the children. However, conventional carrycots cannot be used universally. In other words, the carrycots designed for strollers cannot be installed on vehicle seats, and the carrycots designed for vehicle seats cannot be installed on strollers. Therefore, the caregivers would need different carrycots in different situations, this is inconvenient for the caregivers. Furthermore, most of the conventional carrycots have complicated structure and difficult attachment and detachment operations, and therefore, they are not easy to use.

Summary of the Invention

Therefore, the present invention aims to provide a carrycot that is easy to use and has a universal design adapted for a stroller and a vehicle seat. The invention aims to provide a carrycot structure that has simple structure and is adapted for various vehicle seats. The present invention also aims to provide a child carrier having the carrycot.

This is achieved by a carrycot, a carrycot structure, and a child carrier according to claims 1, 19 and 22. The dependent claims pertain to corresponding further developments and improvements.

As will be seen more clearly from the detail description, the claimed carrycot includes a carrycot body and a mounting bracket. The carrycot body is for accommodating a child and for a harness to pass through. The mounting bracket is disposed on an outer surface of the carrycot body. The mounting bracket includes a bracket body, at least one engaging component and a mounting assembly. The at least one engaging component is for positioning the carrycot. The mounting assembly is for

the harness to be coupled to. The harness is coupled to the mounting assembly and passes through the carrycot body.

According to an embodiment of the present invention, the at least one engaging component includes an engaging portion protruding from the bracket body for positioning the carrycot body.

According to an embodiment of the present invention, a fixing portion is formed on at least one end of the at least one engaging component and is affixed to the bracket body.

According to an embodiment of the present invention, the at least one engaging component is a rod-shaped structure.

According to an embodiment of the present invention, the at least one engaging component and the mounting bracket are integrally formed with each other.

According to an embodiment of the present invention, an installation slot is formed on the carrycot for cooperating with the mounting bracket, and the bracket body is installed on the installation slot.

According to an embodiment of the present invention, the mounting bracket includes a plurality of pipes.

According to an embodiment of the present invention, the bracket body includes a bottom pipe and at least one lateral pipe. The bottom pipe is disposed on a bottom portion of the carrycot body. The at least one lateral pipe is disposed on a lateral portion of the carrycot body, and the at least one engaging component is disposed on the bottom pipe.

According to an embodiment of the present invention, the bottom pipe and the at least one lateral pipe are integrally formed with each other.

According to an embodiment of the present invention, the carrycot further includes

a handle movably disposed on the carrycot body or the mounting bracket.

According to an embodiment of the present invention, the mounting assembly includes a shoulder strap mount and a crotch strap mount for mounting a shoulder strap and a crotch strap of the harness respectively.

According to an embodiment of the present invention, at least one first shoulder strap hole is formed on the shoulder strap mount. At least one second shoulder strap hole is formed on a bottom portion of the carrycot body, and the at least one first shoulder strap hole is aligned with the at least one second shoulder strap hole.

According to an embodiment of the present invention, at least one first crotch strap hole is formed on the crotch strap mount. At least one second crotch strap hole is formed on a bottom portion of the carrycot body, and the at least one first crotch strap hole is aligned with the at least one second crotch strap hole.

According to an embodiment of the present invention, the mounting bracket further includes at least one fixing component for restraining the at least one engaging component, and the at least one fixing component includes two fixing blocks respectively disposed on two ends of the at least one engaging component.

According to an embodiment of the present invention, the at least one fixing component includes a first fixing component and a second fixing component. The mounting bracket further includes at least one reinforcing component. The at least one reinforcing component is disposed between one of two fixing blocks of the first fixing component and one of two fixing blocks of the second fixing component, so that the one of two fixing blocks of the first fixing component is affixed to the one of two fixing blocks of the second fixing component by the at least one reinforcing component.

According to an embodiment of the present invention, the mounting bracket further includes at least one supporting block disposed on an end of the bottom pipe away from the at least one engaging component, and a height of the at least one supporting block from the bracket body is equal to a height of each of the two fixing blocks from the bracket body, so that the carrycot body is supported in a horizontal direction by the at

least one supporting block and the two fixing blocks cooperatively.

According to an embodiment of the present invention, the mounting bracket further includes at least one auxiliary reinforcing component disposed between the mounting assembly and the bracket body, so that the mounting assembly is affixed to the bracket body by the at least one auxiliary reinforcing component.

According to an embodiment of the present invention, the carrycot body is made of foam material.

According to an embodiment of the present invention, a longitudinal direction of the at least one engaging component is parallel to a longitudinal direction of the carrycot body.

Besides, the claimed carrycot structure for a vehicle seat includes a base and the carrycot of any one of the aforementioned embodiments, and the carrycot is detachably installed on the base.

According to an embodiment of the present invention, at least one locking component protrudes from the base and is for cooperating with the at least one engaging component, and a locking slot is formed on the at least one locking component and for engaging with the at least one engaging component.

According to an embodiment of the present invention, at least one restraining block protrudes from the base and is for restraining a movement of the carrycot relative to the base.

Furthermore, the claimed child carrier includes a carrier frame and the carrycot of any one of the aforementioned embodiments, and the carrycot is detachably installed on the carrier frame.

According to an embodiment of the present invention, the carrycot further includes at least one first connecting component. The carrier frame includes at least one second connecting component for cooperating with the at least one first connecting component.

The carrycot is detachably installed on the carrier frame by a cooperation of the at least one first connecting component and the at least one second connecting component.

According to an embodiment of the present invention, the at least one first connecting component is disposed on the carrycot body or the mounting bracket.

According to an embodiment of the present invention, the carrier frame is a stroller frame or a crib frame.

Comparing with the prior art, in the present invention, the engaging component is used for positioning the carrycot body, and the mounting assembly is used for installing the harness. Therefore, the advantages of the present invention are simple structure and easy operation. The present invention also provides a comfortable and safe environment for the child. Besides, the carrycot provided by the present invention can be adapted for installing on various vehicle seats, such as car seats, ship seats or aircraft seats. The carrycot provided by the present invention can also be adapted for installing on various carrier frames, such as stroller frames or crib frame. Therefore, the carrycot provided by the present invention is versatile. Furthermore, in the present invention, the carrycot body can be made of foam material, and the mounting bracket includes the pipes. Thus, the structure of the carrycot provided by the present invention is stable, compact, and lightweight.

These and other objectives of the present invention will no doubt become obvious to those of ordinary skill in the art after reading the following detailed description of the preferred embodiment that is illustrated in the various figures and drawings.

Brief Description of the Drawings

In the following, the invention is further illustrated by way of example, taking reference to the accompanying drawings. Thereof

FIG. 1 and FIG. 2 are diagrams of a carrycot structure in different views according to an embodiment of the present invention,

FIG. 3 and FIG. 4 are diagrams of a carrycot in different views according to the embodiment of the present invention,

FIG. 5 is a partial view of the carrycot according to the embodiment of the present

invention,

FIG. 6 is another partial view of the carrycot according to the embodiment of the present invention, and

FIG. 7 is a diagram of a base according to the embodiment of the present invention.

Detailed Description

In the following detailed description of the preferred embodiments, reference is made to the accompanying drawings which form a part hereof, and in which is shown by way of illustration specific embodiments in which the invention may be practiced. In this regard, directional terminology, such as “top”, “bottom”, “right”, “left”, “front”, “back”, etc., is used with reference to the orientation of the Figure(s) being described. The components of the present invention can be positioned in a number of different orientations. As such, the directional terminology is used for purposes of illustration and is in no way limiting. Accordingly, the drawings and descriptions will be regarded as illustrative in nature and not as restrictive. Also, the term “connect” is intended to mean either an indirect or direct mechanical connection. Thus, if a first device is connected to a second device, that connection may be through a direct mechanical connection, or through an indirect mechanical connection via other devices and connections.

In order to illustrate technical specifications and structural features as well as achieved purposes and effects of the present invention, relevant embodiments and figures are described as follows.

Please refer to FIG. 1 to FIG. 7. FIG. 1 and FIG. 2 are diagrams of a carrycot structure 1000 in different views according to an embodiment of the present invention. FIG. 3 and FIG. 4 are diagrams of a carrycot 100 in different views according to the embodiment of the present invention. FIG. 5 is a partial view of the carrycot 100 according to the embodiment of the present invention. FIG. 6 is another partial view of the carrycot 100 according to the embodiment of the present invention. FIG. 7 is a diagram of a base 200 according to the embodiment of the present invention. As shown in FIG. 1 to FIG. 7, the carrycot structure 1000 includes the carrycot 100 and the base 200. The base 200 can be installed on a vehicle seat, such as a car seat, a ship seat, or an aircraft seat. The carrycot 100 is detachably mounted on the base 200. The carrycot

100 includes a carrycot body 10 and a mounting bracket 20. The carrycot body 10 is for accommodating a child and can allow a harness to pass through. The mounting bracket 20 is disposed on an outer surface of the carrycot body 10. Specifically, the mounting bracket 20 includes a bracket body 2A, two engaging components 23 and a mounting assembly 24. The two engaging components 23 can be detachably engaged with the base 200, so that the carrycot body 10 can be detachably installed on the base 200 for achieving positioning of the carrycot body 10. The harness can be coupled to the mounting assembly 24, and passed through the carrycot body 10, and stretched into an interior of the carrycot body 10. However, the number of the engaging component is not limited to this embodiment. For example, in another embodiment, the mounting bracket can include only one engaging component.

As shown in FIG. 1, FIG. 3, FIG. 5 and FIG. 6, each of the engaging components 23 includes an engaging portion 231 for positioning the carrycot body 10. Each of the engaging portions 231 protrudes from the bracket body 2A and spaced apart from the bracket body 2A by a gap. The aforementioned configuration allows more convenient engagements between the engaging components 23 and the base 200 more convenient, therefore would be easier to use.

Furthermore, as shown in FIG. 3, FIG. 5 and FIG. 6, a fixing portion 232 is formed on each end of each of the engaging components 23 and is affixed to the bracket body 2A, so that each of the engaging portions 231 can be fixed on the bracket body 2A by the corresponding fixing portion 232. In order to make an overall structure stable, the two fixing portions 232 at the two ends of each of the engaging components 23 can be integrally formed with the corresponding engaging portion 231 at a middle portion of each of the engaging components 23, and the two fixing portions 232 of each of the engaging components 23 can be integrally formed with the bracket body 2A. Specifically, in order to make the overall structure reasonably compact, each of the engaging components 23 can be a curved rod-shaped structure, so that the middle portion of each of the engaging components 23 can form the corresponding engaging portion 231, and the two ends of each of the engaging components 23 can form the two corresponding fixing portions 232. However, the structure of the engaging component is not limited to this embodiment. For example, in another embodiment, the fixing portion can be fixed onto the bracket body by engaging, screwing or welding, and the engaging portion can

be fixed onto the fixing portion by engaging, screwing or welding. Alternatively, in another embodiment, the engaging component can be formed in another shape, e.g., the engaging component can be an engaging block with an engaging recess.

Alternatively, as shown in FIG. 3 to FIG. 6, the mounting bracket 20 is disposed on the outer surface of the carrycot body 10. Specifically, an installation slot 14 is formed on the carrycot body 10 and for cooperating with the mounting bracket 20. The bracket body 2A is installed on the installation slot 14. By a cooperation between the bracket body 2A and the installation slot 14, a connection of the mounting bracket 20 and the carrycot body 10 can be more stable.

As shown in FIG. 5 and FIG. 6, the mounting bracket 20 includes a plurality of pipes. The pipes can be a plurality of metal pipes. The plurality of metal pipes can be fabricated individually and installed on the carrycot body 10 individually after fabrication, or can be welded together after fabrication and then be installed on the carrycot body 10 after being welded together. The mounting bracket 20 with the plurality of metal pipes makes the overall structure stable and compact, but also makes an installation of the mounting bracket 20 more convenient. However, the present invention is not limited to this embodiment. For example, in another embodiment, the plurality of pipes can be a plurality of plastic pipes, and the plurality of plastic pipes can be integrally formed together.

Specifically, as shown in FIG .5 and FIG. 6, the bracket body 2A includes a bottom pipe 21 and two lateral pipes 22. The bottom pipe 21 is disposed on a bottom portion of the carrycot body 10. The two lateral pipes 22 are respectively disposed on two lateral portions of the carrycot body 10. The two engaging components 23 are disposed on the bottom pipe 21. The two engaging components 23 can be integrally formed with the bottom pipe 21. By the aforementioned configuration of the bottom pipe 21 and the two lateral pipes 22, structure of the carrycot 100 can be more stable. However, the structure of the bracket body is not limited to this embodiment. For example, in another embodiment, the bracket body can include only one lateral pipe at one lateral portion of the carrycot body.

In addition, as shown in FIG. 1 to FIG. 6, the carrycot 100 further includes a handle

101 movably disposed on the mounting bracket 20. Specifically, the handle 101 is pivotally connected to the lateral pipes 22 of the mounting bracket 20, i.e., the handle 101 is pivotally installed on the carrycot body 10 by the mounting bracket 20. By the aforementioned configuration of the handle 101, a user can carry or transport the carrycot 100 with the child easily by holding the handle 101, or pivotally fold the handle 101 to abut against the carrycot body 10 for reducing an occupied space of the carrycot 100 when it is not required to carry or transport the carrycot 100. However, the structure of the handle is not limited to this embodiment. For example, in another embodiment, the handle can be movably and directly connected to the carrycot body.

As shown in FIG. 3, FIG. 5 and FIG. 6, the mounting assembly 24 includes a shoulder strap mount 242 and a crotch strap mount 241 for mounting a shoulder strap and a crotch strap of the harness respectively, so as to allow the shoulder strap and the crotch strap of the harness to pass through the carrycot body 10 to stretch into the interior of the carrycot body 10 easily. Therefore, with the aforementioned configuration of the shoulder strap mount 242 and the crotch strap mount 241, the present invention can provide a comfortable and safe environment for a child inside the carrycot body 10.

Specifically, as shown in FIG. 3 to FIG. 6, two first shoulder strap holes 2421 are formed on the shoulder strap mount 242. Two second shoulder strap holes 12 are formed on the bottom portion of the carrycot body 10. The two first shoulder strap holes 2421 are respectively aligned with the two second shoulder strap holes 12, so that the shoulder strap can pass through the two first shoulder strap holes 2421 and the two second shoulder strap holes 12 to stretch into the interior of the carrycot body 10 easily. A first crotch strap hole 2411 is formed on the crotch strap mount 241. A second crotch strap hole 11 is formed on the bottom portion of the carrycot body 10. The first crotch strap hole 2411 is aligned with the second crotch strap hole 11, so that the crotch strap can pass through the first crotch strap hole 2411 and the second crotch strap hole 11 to stretch into the interior of the carrycot body 10 easily. However, the numbers of the first shoulder strap hole, the second shoulder strap hole, the first crotch strap hole and the second crotch strap hole are not limited to this embodiment, and the numbers would depend on practical designs of the shoulder strap and the crotch strap. For example, in another embodiment, there can be only one first shoulder strap hole formed on the shoulder strap mount and only one second shoulder strap hole formed on the bottom

portion of the carrycot body. Alternatively, in another embodiment, there can be two first crotch strap holes formed on the crotch strap mount and two second crotch strap holes formed on the bottom portion of the carrycot body.

As shown in FIG. 3 and FIG. 6, the mounting bracket 20 further includes a first fixing component 2B and a second fixing component 2C for respectively restraining the two engaging components 23. Each of the first fixing component 2B and the second fixing component 2C includes two fixing blocks 26 respectively disposed on the two ends of the corresponding engaging component 23. The fixing blocks 26 can not only make connections of the engaging components 23 and the bracket body 2A stable but also restrain a movement of the carrycot 100 relative to the base 200 by abutting against the base 200. By restraining the relative movement between the carrycot 100 and the base 200, the restraining blocks 26 ensures the safe use of the carrycot 100 when the two engaging components 23 engage with the base 200.

Furthermore, as shown in FIG. 3 and FIG. 6, the mounting bracket 20 further includes two reinforcing components 27. Each of the reinforcing components 27 is disposed between a corresponding one of the two fixing blocks 26 of the first fixing component 2B and a corresponding one of the two fixing blocks 26 of the second fixing component 2C, so that the corresponding one of the two fixing blocks 26 of the first fixing component 2B is affixed to the corresponding one of the two fixing blocks 26 of the second fixing component 2C by the corresponding reinforcing component 27. The reinforcing components 27 can not only make the overall structure more stable and but also restrain the movement of the carrycot 100 relative to the base 200 by abutting against the base 200. By restraining the relative movement between the carrycot 100 and the base 200, the reinforcing component 27 ensures the safe use of the carrycot 100 when the two engaging components 23 engage with the base 200. Specifically, each of the reinforcing components 27 can be a rod-shaped structure. However, the structure of the mounting bracket is not limited to this embodiment. For example, in another embodiment, the reinforcing component can be a block-shaped structure. Alternatively, in another embodiment, the mounting bracket can include only one reinforcing component disposed between the two corresponding fixing blocks. Alternatively, in another embodiment, the mounting bracket can include only one of the first fixing component and the second fixing component, i.e., there can be only one fixing

component.

Besides, as shown in FIG. 3 and FIG. 6, the mounting bracket 20 further includes an auxiliary reinforcing component 28 disposed between the mounting assembly 24 and the bracket body 2A, and affixed to the mounting assembly 24 and the bracket body 2A for making the overall structure more stable. Specifically, the auxiliary reinforcing component 28 is disposed between the shoulder strap mount 242, the crotch strap mount 241 and the bracket body 2A. However, the present invention is not limited to this embodiment. For example, in another embodiment, the mounting bracket can include a plurality of auxiliary reinforcing components separately disposed between the shoulder strap mount and the bracket body and/or between the crotch strap mount and the bracket body.

Moreover, as shown in FIG. 3, FIG. 5 and FIG. 6, the mounting bracket 20 further includes two supporting blocks 25 disposed on an end of the bottom pipe 21 away from the two engaging components 23. A height of each of the supporting blocks 25 from the bracket body 2A is equal to a height of each of the fixing blocks 26 from the bracket body 2A. Therefore, the supporting blocks 25 and the fixing blocks 26 can cooperatively support the carrycot body 10 in a horizontal direction. When the carrycot 100 is independently used, e.g., when the carrycot 100 is placed on a ground or a desktop, the aforementioned configuration is to prevent injuries of the child in the carrycot body 10 due to unintentional tipping of the carrycot body 10. However, the number of the supporting block is not limited to this embodiment. For example, in another embodiment, the mounting bracket can include only one supporting block.

As shown in FIG. 1 to FIG. 3, in order to make the overall structure stable but not bulky, the carrycot body 10 can be made of foam material. By cooperation of the carrycot body 10 made of foam material and the mounting bracket 20 including the metal pipes, the structure of the carrycot 100 is stable and lightweight. Furthermore, a plurality of through holes 13 can be formed on the carrycot body 10, which can not only achieve a purpose of ventilation and breathability but also reduce the weight of the carrycot body 10 for bringing convenience in use and transportation.

As shown in FIG. 7, two locking components 201 protrude from the base 200 and

respectively cooperate with the two engaging components 23. A locking slot 202 is formed on each of the locking components 201 and for engaging with the corresponding engaging component 23. Each of the locking components 201 can be a protruding structure, and each of the locking slots 202 can be a recess structure, so that an engagement of each of the engaging components 23 with the base 200 is convenient. However, the number of the locking component is not limited to this embodiment. For example, in another embodiment, there can be only one locking component protruding from the base.

Besides, as shown in FIG. 1 and FIG. 4 to FIG. 7, two restraining blocks 203 protrude from the base 200 and for restraining the movement of the carrycot 100 relative to the base 200. Specifically, when each of the engaging components 23 engages with the corresponding locking slot 202, each of the locking components 201 can abut against the corresponding fixing blocks 26 along a first direction X, and each of the restraining blocks 203 can abut against the corresponding fixing blocks 26 along a second direction Y, so as to restrain each of the engaging components 23 from moving relative to the corresponding locking slot 202 along the first direction X and the second direction Y. The first direction X can be perpendicular to the second direction Y. Specifically, the first direction X can be parallel to a longitudinal direction of the carrycot body 10, i.e., a longitudinal direction of the carrycot 100, and a transverses direction of the base 200. The second direction Y can be parallel to a transverse direction of the carrycot body 10, i.e., a transverses direction of the carrycot 100, and a longitudinal direction of the base 200. A longitudinal direction of each of the engaging components 23 can be parallel to the first direction X, that is, the longitudinal direction of each of the engaging components 23 can be parallel to the longitudinal direction of the carrycot body 10, i.e., the longitudinal direction of the carrycot 100.

Furthermore, as shown in FIG. 3, the carrycot 100 not only can be detachably installed on the base 200, but also can be detachably installed on a carrier frame when it is detached from the base 200, so a child carrier is jointly formed by the carrycot 100 and the carrier frame. Therefore, the carrycot 100 is versatile. Specifically, the child carrier can be a stroller or a crib, and the carrier frame can be a stroller frame or a crib frame.

As shown in FIG. 3 to FIG. 6, the carrycot 100 further includes two first connecting components 102. The carrier frame includes two second connecting components for respectively cooperating with the two first connecting components 102. The carrycot 100 is detachably installed on the carrier frame by cooperation of the two first connecting components 102 and the two second connecting components. Specifically, the two first connecting components 102 are respectively disposed on the two lateral pipes 22 of the bracket body 2A, and the two second connecting components are respectively disposed on two lateral portions of the carrier frame. Each of the first connecting components 102 can be engaged with or disengaged from the corresponding second connecting component, for the purpose of attaching or detaching the carrycot 100 from the carrier frame. However, the structures and the numbers of the first connecting component and the second connecting component are not limited to this embodiment. For example, in another embodiment, the two first connecting components can be disposed on two lateral portions of the carrycot body respectively. Alternatively, in another embodiment, the carrycot can include only one first connecting component disposed on the bottom portion of the carrycot body, and carrier frame can include only one second connecting component located at a position corresponding to the first connecting component.

Comparing with the prior art, in the present invention, the engaging component is used for positioning the carrycot body, and the mounting assembly is used for installing the harness. Therefore, the advantages of the present invention are simple structure and easy operation. The present invention also provides a comfortable and safe environment for the child. Besides, the carrycot provided by the present invention can be adapted for installing on various vehicle seats, such as car seats, ship seats or aircraft seats. The carrycot provided by the present invention can also be adapted for installing on various carrier frames, such as stroller frames or crib frame. Therefore, the carrycot provided by the present invention is versatile. Furthermore, in the present invention, the carrycot body can be made of foam material, and the mounting bracket includes the pipes. Thus, the structure of the carrycot provided by the present invention is stable, compact, and lightweight.

Those skilled in the art will readily observe that numerous modifications and alterations of the device and method may be made while retaining the teachings of the

invention. Accordingly, the above disclosure should be construed as limited only by the metes and bounds of the appended claims.

Claims

What is claimed is:

1. A carrycot (100) comprising:
   a carrycot body (10) for accommodating a child and for a harness to pass though; and
   a mounting bracket (20) disposed on an outer surface of the carrycot body (10), the mounting bracket (20) comprising:
   a bracket body (2A);
   at least one engaging component (23) for positioning the carrycot (100); and
   a mounting assembly (24) for the harness to be coupled to, and the harness being coupled to the mounting assembly (24) and passing through the carrycot body (10).

2. The carrycot (100) of claim 1, characterized in that the at least one engaging component (23) comprises an engaging portion (231) protruding from the bracket body (2A) for positioning the carrycot body (10).

3. The carrycot (100) of claim 2, characterized in that a fixing portion (232) is formed on at least one end of the at least one engaging component (23) and is affixed to the bracket body (2A).

4. The carrycot (100) of any one of claims 1 to 3, characterized in that the at least one engaging component (23) is a rod-shaped structure.

5. The carrycot (100) of any one of claims 1 to 4, characterized in that the at least one engaging component (23) and the mounting bracket (20) are integrally formed with each other.

6. The carrycot (100) of any one of claims 1 to 5, characterized in that an installation slot (14) is formed on the carrycot (100) for cooperating with the mounting bracket (20), and the bracket body (2A) is installed on the installation slot (14).

7. The carrycot (100) of any one of claims 1 to 6, characterized in that the mounting bracket (20) comprises a plurality of pipes.

8. The carrycot (100) of any one of claims 1 to 7, characterized in that the bracket body (2A) comprises a bottom pipe (21) and at least one lateral pipe (22), the bottom pipe (21) is disposed on a bottom portion of the carrycot body (10), the at least one lateral pipe (22) is disposed on a lateral portion of the carrycot body (10), and the at least one engaging component (23) is disposed on the bottom pipe (21).

9. The carrycot (100) of claim 8, characterized in that the bottom pipe (21) and the at least one lateral pipe (22) are integrally formed with each other.

10. The carrycot (100) of any one of claims 1 to 9, further characterized by a handle (101) movably disposed on the carrycot body (10) or the mounting bracket (20).

11. The carrycot (100) of any one of claims 1 to 10, characterized in that the mounting assembly (24) comprises a shoulder strap mount (242) and a crotch strap mount (241) for mounting a shoulder strap and a crotch strap of the harness respectively.

12. The carrycot (100) of claim 11, characterized in that at least one first shoulder strap hole (2421) is formed on the shoulder strap mount (242), at least one second shoulder strap hole (12) is formed on a bottom portion of the carrycot body (10), and the at least one first shoulder strap hole (2421) is aligned with the at least one second shoulder strap hole (12).

13. The carrycot (100) of claim 11, characterized in that at least one first crotch strap hole (2411) is formed on the crotch strap mount (241), at least one second crotch strap hole (11) is formed on a bottom portion of the carrycot body (10), and the at least one first crotch strap hole (2411) is aligned with the at least one second crotch strap hole (11).

14. The carrycot (100) of any one of claims 1 to 13, characterized in that the mounting bracket (20) further comprises at least one fixing component for restraining the at least one engaging component (23), and the at least one fixing component comprises two fixing blocks (26) respectively disposed on two ends of the at least one engaging component (23).

15. The carrycot (100) of claim 14, characterized in that the at least one fixing component comprises a first fixing component (2B) and a second fixing component (2C), the mounting bracket (20) further comprises at least one reinforcing component (27), the at least one reinforcing component (27) is disposed between one of two fixing blocks (26) of the first fixing component (2B) and one of two fixing blocks (26) of the second fixing component (2C), so that the one of two fixing blocks (26) of the first fixing component (2B) is affixed to the one of two fixing blocks (26) of the second fixing component (2C) by the at least one reinforcing component (27).

16. The carrycot (100) of claim 14, characterized in that the mounting bracket (20) further comprises at least one supporting block (25) disposed on an end of the bottom pipe (21) away from the at least one engaging component (23), and a height of the at least one supporting block (25) from the bracket body (2A) is equal to a height of each of the two fixing blocks (26) from the bracket body (2A), so that the carrycot body (10) is supported in a horizontal direction by the at least one supporting block (25) and the two fixing blocks (26) cooperatively.

17. The carrycot (100) of any one of claims 1 to 16, characterized in that the mounting bracket (20) further comprises at least one auxiliary reinforcing component (28) disposed between the mounting assembly (24) and the bracket body (2A), so that the mounting assembly (24) is affixed to the bracket body (2A) by the at least one auxiliary reinforcing component (28).

18. The carrycot (100) of any one of claims 1 to 17, characterized in that the carrycot body (10) is made of foam material.

19. The carrycot (100) of any one of claims 1 to 18, characterized in that a longitudinal direction of the at least one engaging component (23) is parallel to a longitudinal direction of the carrycot body (10).

20. A carrycot structure (1000) for a vehicle seat, the carrycot structure (1000)

comprising a base (200) and the carrycot (100) of any one of claims 1 to 19, and the carrycot (100) being detachably installed on the base (200).

21. The carrycot structure (1000) of claim 20, characterized in that at least one locking component (201) protrudes from the base (200) and is for cooperating with the at least one engaging component (23), and a locking slot (202) is formed on the at least one locking component (201) and for engaging with the at least one engaging component (23).

22. The carrycot structure (1000) of any one of claims 20 to 21, characterized in that at least one restraining block (203) protrudes from the base (200) and is for restraining a movement of the carrycot (100) relative to the base (200).

23. A child carrier comprising a carrier frame and the carrycot (100) of any one of claims 1 to 19, and the carrycot (100) being detachably installed on the carrier frame.

24. The child carrier of claim 23, characterized in that the carrycot (100) further comprises at least one first connecting component (102), the carrier frame comprises at least one second connecting component for cooperating with the at least one first connecting component (102), the carrycot (100) is detachably installed on the carrier frame by a cooperation of the at least one first connecting component (102) and the at least one second connecting component.

25. The child carrier of claim 24, characterized in that the at least one first connecting component (102) is disposed on the carrycot body (10) or the mounting bracket (20).

26. The child carrier of any one of claims 23 to 25, characterized in that the carrier frame is a stroller frame or a crib frame.