

Specification

A kind of luggage which can be opened both on the long side and on the short side

Field of Technology

The utility model belongs to the technical field of luggage, and particularly relates to a kind of luggage which can be opened on both the long side and the short side.

Background Technology

Existing travel luggage and backpacks since its inception has been only one direction of opening, either the case width of the left and right way to open, or the case height of the up and down way to open. However, in some usage scenarios, different opening directions are required, i.e., some need to open in the length direction and some need to open in the height direction. For example, some hotel rooms are so cramped that it is impossible to fit a suitcase up or down in the height direction, and for example, if the same luggage doesn't fit on the table by opening it from side to side along the width, it can be opened along the height without taking up any space. Therefore, the development of a product that opens up and down in the height direction and opens left and right in the width direction has been a challenge for the technicians in this field.

Utility Model Content

The purpose of the utility model is to provide a kind of luggage that can be opened on both the long side and the short side, and to solve the technical problem that the opening direction of the luggage in the above mentioned prior art is single, and cannot be adapted to all the use scenarios.

The technical solution adopted by the utility model to solve its technical problems is:

There is a kind of luggage which can be opened both on the long side and on the short side, with characteristics including the said upper case and the lower case are fastened, the long sides of the fastening surfaces of the said upper case and the said lower case have a long-side joint part, a first zipper is provided between the upper case and the lower case on the outer side of the said long-side joint part, the said first zipper has a first pull lock, a middle connecting part is provided between the said first zipper and the said lower case, a second zipper is provided between the said middle connecting part and the said lower case, the said second zipper is located on the short-side of the lower case corresponding to the interrupt part, the said interrupt part is provided with the short-side joint part, the said short-side joint part is connected to the middle connecting part on the one side and connected to the lower case on the another side, the said second zipper is provided with a second pull lock.

For the utility model of a luggage which can be opened both on the long side and on the short side, the said first pull lock is provided with a pull ring, the said second pull lock is provided with a pull tongue, and the said pull tongue can pass through the pull ring and press a part of the pull ring when the positions of the said first pull lock and the said second pull lock correspond.



For the utility model of a luggage which can be opened both on the long side and on the short side, the number of the said first pull lock and the second pull lock is two.

For the utility model of a luggage which can be opened both on the long side and on the short side, the said lower case has a lock on one side, and the said lock can lock or separate the pull tongue.

For the utility model of a luggage which can be opened both on the long side and on the short side, the said upper case and one side of the lower case are provided with rollers.

For the utility model of a luggage which can be opened both on the long side and on the short side, the lengths of the said long-side joint part and the short-side joint part are $2/1-3/4$ of the length of the side of the lower case in which they are located.

The utility model has the following beneficial effects: A luggage which can be opened both on the long side and on the short side, by providing two rows of first zipper and second zipper between the upper case and the lower case, so that there are two openings between the upper case and the lower case, and the middle of the first zipper and the second zipper are respectively provided with a long-side joint part and a short-side joint part, and the long-side joint part and the short-side joint part are arranged on the different side lengths of the lower case, so that different opening directions can be realized by controlling the matching between the zipper and the joint parts; at the same time, the matching of pull ring and pull tongue is set on the pull lock corresponding to the position, the pull ring is pressed by the pull tongue, and the pull tongue is locked by locking head, so as to achieve the effect of only one lock head for two rows of zippers.

Instruction with Pictures

The utility model will be further described below in conjunction with the accompanying pictures and embodiments, in the accompanying pictures:

Figure 1 is a schematic diagram of a short-side joint part of the embodiment of the utility model;

Figure 2 is a schematic diagram of a long-side joint part of the embodiment of the utility model;

Figure 3 is a schematic diagram of the lock head position of the embodiment of the utility model;

Figure 4 is a schematic diagram of the opening state of the embodiment of the utility model;

Figure 5 is a schematic diagram of the roller of the embodiment of the utility model.

Specific Implementation Mode

In order to make the purpose, technical solutions and advantages of the embodiments of the utility model clearer, the technical solutions in the embodiments of the utility model will be described clearly and completely in the following in conjunction with the accompanying pictures in the embodiments of the utility model, and it is clear that the described embodiments are part of the embodiments of the utility model and not all of the embodiments. It shall be understood that the specific embodiments described herein are for the sole purpose of explaining the utility model and are not intended to limit the utility model. Based on the embodiments of the utility model, all other embodiments obtained by



the person of ordinary skill in the field without making creative labor are within the scope of protection of the utility model.

As shown in the figure 1-5, there is a kind of luggage which can be opened both on the long side and on the short side, including the said upper case 1 and the lower case 2, the said upper case 1 and the lower case 2 are fastened, the long sides of the fastening surfaces of the said upper case 1 and the said lower case 2 have a long-side joint part 11, a first zipper 3 is provided between the upper case 1 and the lower case 2 on the outer side of the said long-side joint part (11), the said first zipper 3 has a first pull lock 6, a middle connecting part 5 is provided between the said first zipper 3 and the said lower case 2, a second zipper 4 is provided between the said middle connecting part 5 and the said lower case 2, the said second zipper 4 is located on the short-side of the lower case 2 corresponding to the interrupt part, the said interrupt part is provided with the short-side joint part 10, the said short-side joint 10 part is connected to the middle connecting part 5 on the one side and connected to the lower case 2 on the another side, the said second zipper 4 is provided with a second pull lock 8.

It is to be noted that the middle connecting part 5 can be provided separately, and its material shall be hard, which can be the same as the material of the upper case 1 and the lower case 2, or it can be directly connected by using the mounting portions of the first zipper 3 and the second zipper 4, and locally reinforced to form a joint part.

In the preferred embodiment of the utility model, the said first pull lock 6 is provided with a pull ring 7, the said second pull lock 8 is provided with a pull tongue 9, the said pull tongue 9 can pass through the pull ring 7 and press a part of the pull ring 7 when the positions of the said first pull lock 6 and the said second pull lock 8 correspond. It shall be noted that, the size of the pull ring 7 therein is sufficient to facilitate the passage of the pull tongue 9, and shall not be too large, so as to have a large gap after locking, so as to be able to be pulled away from each other by a certain distance, so as to make the internal items lost.

In the preferred embodiment of the utility model, the number of the said first pull lock 6 and the second pull lock 8 is two, so that the two first pull lock 6 and the second pull lock 8 can be pulled apart and locked together, which is convenient for the user to use.

In the preferred embodiment of the utility model, the lower case 2 has a lock 12 on one side, the said lock 12 can lock or separate the pull tongue 9, and the lock can be a conventional padlock, or a coded lock, as long as it can be pulled into the tongue 9 for locking.

In the preferred embodiment of the utility model, the said upper case 1 and the lower case 2 are provided with rollers on one side, it shall be noted that, the rollers can be on any side, but the preferred solution is that the rollers are opposite to the pulling direction of the pulling rod, and at the same time, a backpack can also be provided on the side of the upper case 1 or the lower case 2, so as to facilitate the use of backpacking in the scenario in which it is not appropriate to pull.



In the preferred embodiment of the utility model, the lengths of said long-side joint part 11 and short-side joint part 10 are $2/1-3/4$ of the length of the side of the lower case 2 in which they are located, such a setup that does not affect the opening and closing and at the same time has a certain degree of stability of the opening and closing, and at the same time, generally speaking, the said long-side joint part 11 and the said short-side joint part 10 are set up in the center of the mounting position thereof.

In the description of the utility model, it shall be noted that, the terms “center”, “lengthways”, “lateral”, “top”, “bottom”, “front”, “back”, “left”, “right”, “vertical”, “horizontal”, “top”, “bottom”, “inside”, “outside”, etc. indicate an orientation or positional relationship based only on the orientation or positional relationship shown in the accompanying pictures, and are only intended to facilitate the description of the present utility model and to simplify the description, and are not intended to indicate or imply that the device or element referred must have a specific orientation, be constructed and operated with a specific orientation. Therefore, it is not to be construed as a limitation of the utility model. Furthermore, the terms “first” and “second” are used for descriptive purposes only and shall not be understood as indicating or implying relative importance.

In the description of the utility model, it shall be noted that, unless otherwise expressly specified and limited, the terms “mounting”, “linking”, “connecting” shall be understood in a broad sense, e.g. as a fixed connection, a detachable connection, or a one-piece connection, a mechanical connection, an electrical connection, a direct connection, an indirect connection through an intermediate medium, a connection within two components. To a person of ordinary skill in the field, the specific meaning of the above terms in the present utility model may be understood in specific cases. Furthermore, in the description of the utility model, unless otherwise indicated, “multiple” means two or more.

It is to be understood that one of ordinary skill in the field may make improvements or transformations in accordance with the above description, and all such improvements and transformations shall fall within the scope of protection of the appended claims of the utility model.



Figures Attached to Specification

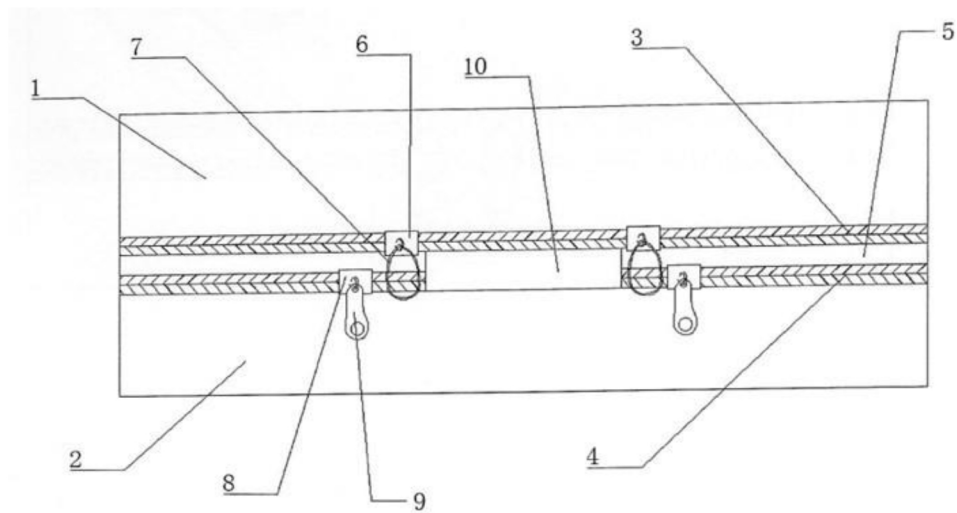


Figure 1

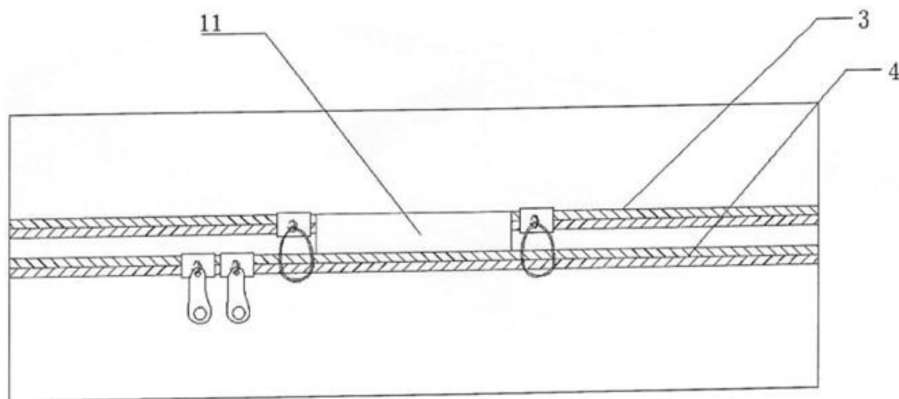


Figure 2

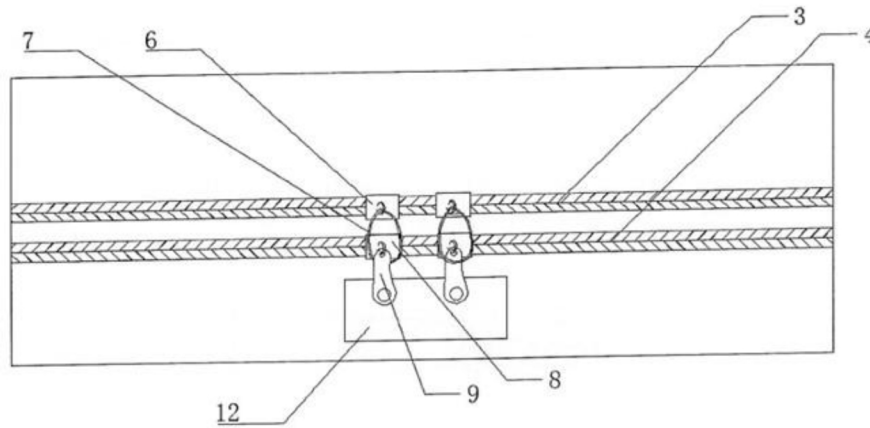


Figure 3

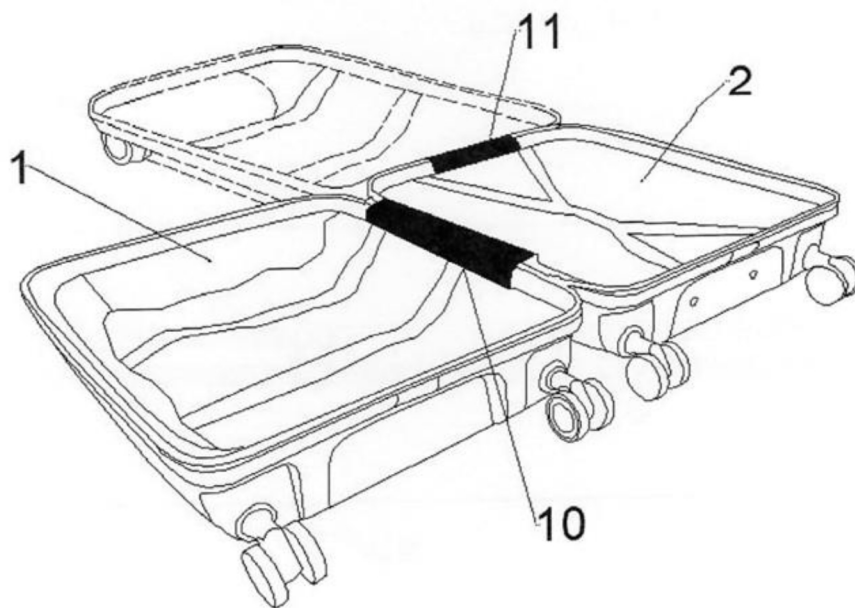


Figure 4

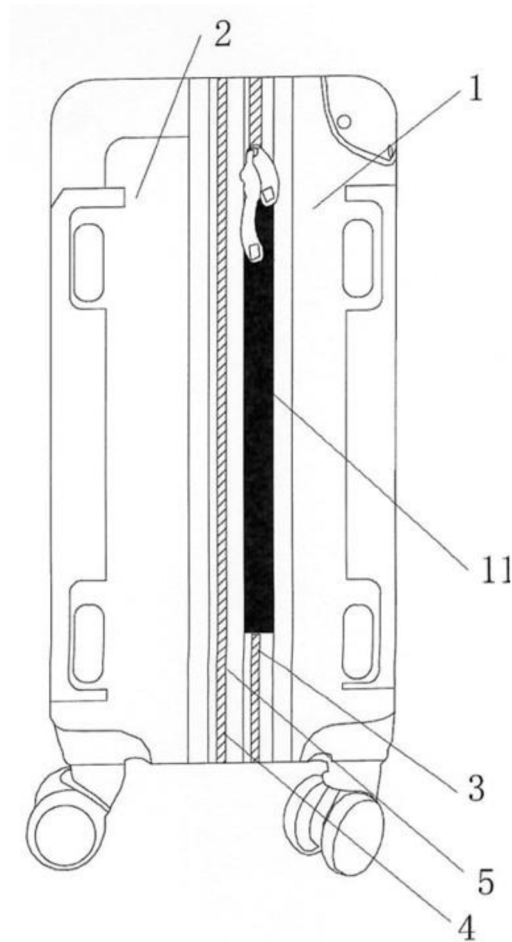


Figure 5

一种长边和短边均可开启的箱包

技术领域

本实用新型属于箱包技术领域，尤其涉及一种长边和短边均可开启的箱包。

背景技术

现有旅行拉杆箱和背包自启用以来一直只有一个打开方向，要么箱子宽度的左右打开方式，要么箱子高度的上下打开方式，但在一些使用场景下，需要不同方向的打开方式，即有的需要长度方向打开，有的需要高度方向打开，比如有些酒店房间非常狭窄，箱子高度方向上下打开根本放不下，又比如同样一个箱包在桌子上沿宽度方向左右打开放不下，那就可以沿着高度方向打开而不占地方，所以如何开发一款既沿着高度方向上下打开，同时又可以沿着宽度方向左右打开，是本领域技术人员一直在思考的难题。

实用新型内容

本实用新型的目的在于提供一种长边和短边均可开启的箱包，解决上述现有技术中箱包的开启方向单一，无法适应所有的使用场景的技术问题。

本实用新型解决其技术问题所采用的技术方案是：

一种长边和短边均可开启的箱包，包括：上箱体和下箱体，所述上箱体和下箱体相互扣合，所述上箱体和下箱体的扣合面的长边具有长边铰接部，所述长边铰接部外侧的上箱体和下箱体之间设置有第一拉链，所述第一拉链上具有第一拉锁，所述第一拉链与下箱体之间具有中间连接部，所述中间连接部与下箱体之间具有第二拉链，所述第二拉链位于下箱体短边位置对应处具有中断部，所述中断部设置有短边铰接部，所述短边铰接部一边与中间连接部连接，所述短边铰接部另一边与下箱体连接，所述第二拉链上具有第二拉锁。

本实用新型的一种长边和短边均可开启的箱包，所述所述第一拉锁设置有拉环，所述第二拉锁上设置有拉舌，所述第一拉锁和第二拉锁位置对应时，所述拉舌可穿过拉环，并将拉环一部分压住。

本实用新型的一种长边和短边均可开启的箱包，所述第一拉锁和第二拉锁的数量为两个。

本实用新型的一种长边和短边均可开启的箱包，所述下箱体一侧面具有锁头，所述锁头可将拉舌锁定或分离。

本实用新型的一种长边和短边均可开启的箱包，所述上箱体和下箱体的一侧面设置



有滚轮。

本实用新型的一种长边和短边均可开启的箱包，所述长边铰接部和短边铰接部的长度为其所在下箱体边长的 $2/1-3/4$ 。

本实用新型产生的有益效果是：提出一种长边和短边均可开启的箱包，通过在上箱体和下箱体之间设置两行的第一拉链和第二拉链，从而使上箱体和下箱体之间具有两条开合口，并在第一拉链和第二拉链中部分别设置长边铰接部和短边铰接部，并且长边铰接部和短边铰接部分别设置在下箱体不同边长上，从而可以通过控制拉链和铰接部的配合，来实现不同的打开方向；同时通过位置相对应的拉锁上分别设置拉环和拉舌的配合，通过拉舌对拉环进行压持，并通过锁头对拉舌进行锁定，实现两排拉链只需一个锁头的效果。

附图说明

下面将结合附图及实施例对本实用新型作进一步说明，附图中：

图 1 是本实用新型实施例的短边铰接示意图；

图 2 是本实用新型实施例的长边铰接示意图；

图 3 是本实用新型实施例的锁头位置示意图；

图 4 是本实用新型实施例的开启状态示意图；

图 5 是本实用新型实施例的带滚轮示意图。

具体实施方式

为使本实用新型实施例的目的、技术方案和优点更加清楚，下面将结合本实用新型实施例中的附图，对本实用新型实施例中的技术方案进行清楚、完整地描述，显然，所描述的实施例是本实用新型的一部分实施例，而不是全部的实施例。应当理解，此处所描述的具体实施例仅用以解释本实用新型，并不用于限定本实用新型。基于本实用新型中的实施例，本领域普通技术人员在没有做出创造性劳动的前提下所获得的所有其他实施例，都属于本实用新型保护的范围。

如图 1-5 所示，一种长边和短边均可开启的箱包，包括：上箱体 1 和下箱体 2，所述上箱体 1 和下箱体 2 相互扣合，所述上箱体 1 和下箱体 2 的扣合面的长边具有长边铰接部 11，所述长边铰接部 11 外侧的上箱体 1 和下箱体 2 之间设置有第一拉链 3，所述第一拉链 3 上具有第一拉锁 6，所述第一拉链 3 与下箱体 2 之间具有中间连接部 5，所述中间连接部 5 与下箱体 2 之间具有第二拉链 4，所述第二拉链 4 位于下箱体 2 短边位置对应处具有中断部，所述中断部设置有短边铰接部 10，所述短边铰接部 10 一边与中间连接部 5 连接，所述短边铰接部 10 另一边与下箱体 2 连接，所述第二拉链 4 上具有第二拉锁 8。



需要说明的是，其中中间连接部 5 可以单独设置，并且其材质应较硬，可以与上箱体 1 和下箱体 2 的材质一致，也可以利用第一拉链 3 和第二拉链 4 的安装部进行直接连接，并且在局部进行材质加强形成铰接部。

本实用新型的优选实施例中，所述所述第一拉锁 6 设置有拉环 7，所述第二拉锁 8 上设置有拉舌 9，所述第一拉锁 6 和第二拉锁 8 位置对应时，所述拉舌 9 可穿过拉环 7，并将拉环 7 一部分压住，需要说明的是，其中的拉环 7 的大小为方便拉舌 9 穿过即可，不宜过大，从而使锁定后具有较大间隙，从而可以相背拉开一定距离，从而使内部物品遗失。

本实用新型的优选实施例中，所述第一拉锁 6 和第二拉锁 8 的数量为两个，这样两个第一拉锁 6 和第二拉锁 8 可要相背拉开，相向锁合，方便使用者使用。

本实用新型的优选实施例中，所述下箱体 2 一侧面具有锁头 12，所述锁头 12 可将拉舌 9 锁定或分离，并且该锁头可以为常规的挂锁，也可以为密码锁，只要能将拉舌 9 进锁定即可。

本实用新型的优选实施例中，所述上箱体 1 和下箱体 2 的一侧面设置有滚轮，需要说明的是该滚轮可以在任何侧面，但较佳的方案是滚轮与拉杆的拉动方向相反，同时也可以在上箱体 1 或下箱体 2 的一侧设置背带，从而方便使用时在不宜拉的场景进行背负。

本实用新型的优选实施例中，所述长边铰接部 11 和短边铰接部 10 的长度为其所在下箱体 2 边长的 $2/1-3/4$ ，这样的设置即不影响开合，同时具有一定的开合稳定性，同时一般情况下，长边铰接部 11 和短边铰接部 10 均设置在其安装位置的中心处。

在本实用新型的描述中，需要说明的是，术语“中心”、“纵向”、“横向”、“上”、“下”、“前”、“后”、“左”、“右”、“竖直”、“水平”、“顶”、“底”、“内”、“外”等指示的方位或位置关系为基于附图所示的方位或位置关系，仅是为了便于描述本实用新型和简化描述，而不是指示或暗示所指的装置或元件必须具有特定的方位、以特定的方位构造和操作，因此不能理解为对本实用新型的限制。此外，术语“第一”、“第二”仅用于描述目的，而不能理解为指示或暗示相对重要性。

在本实用新型的描述中，需要说明的是，除非另有明确的规定和限定，术语“安装”、“相连”、“连接”应做广义理解，例如，可以是固定连接，也可以是可拆卸连接，或一体地连接；可以是机械连接，也可以是电连接；可以是直接相连，也可以通过中间媒介间接相连，可以是两个元件内部的连通。对于本领域的普通技术人员而言，可以根据具体情况理解上述术语在本实用新型中的具体含义。此外，在本实用新型的描述中，除非另有说明，“多个”的含义是两个或两个以上。



应当理解的是，对本领域普通技术人员来说，可以根据上述说明加以改进或变换，而所有这些改进和变换都应属于本实用新型所附权利要求的保护范围。



说明书附图

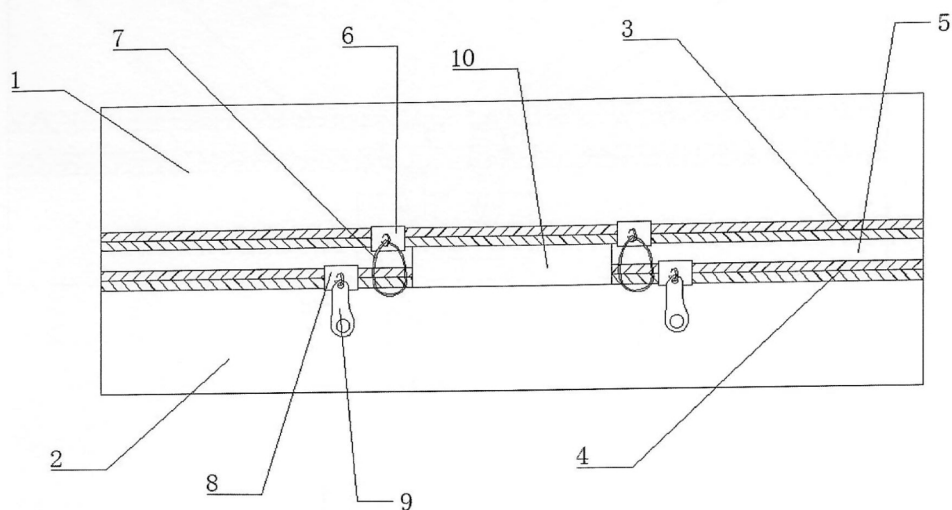


图 1

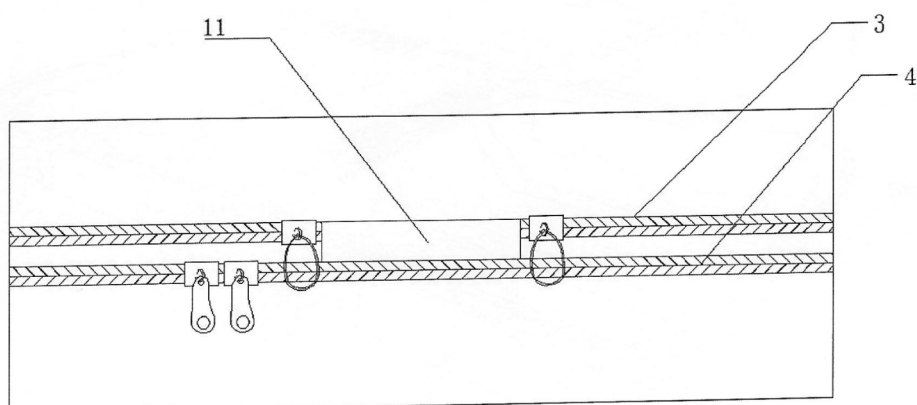


图 2

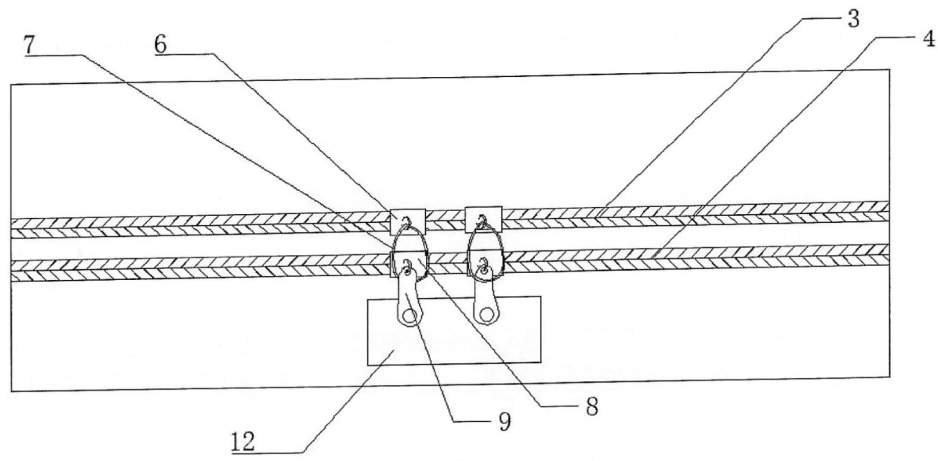


图 3

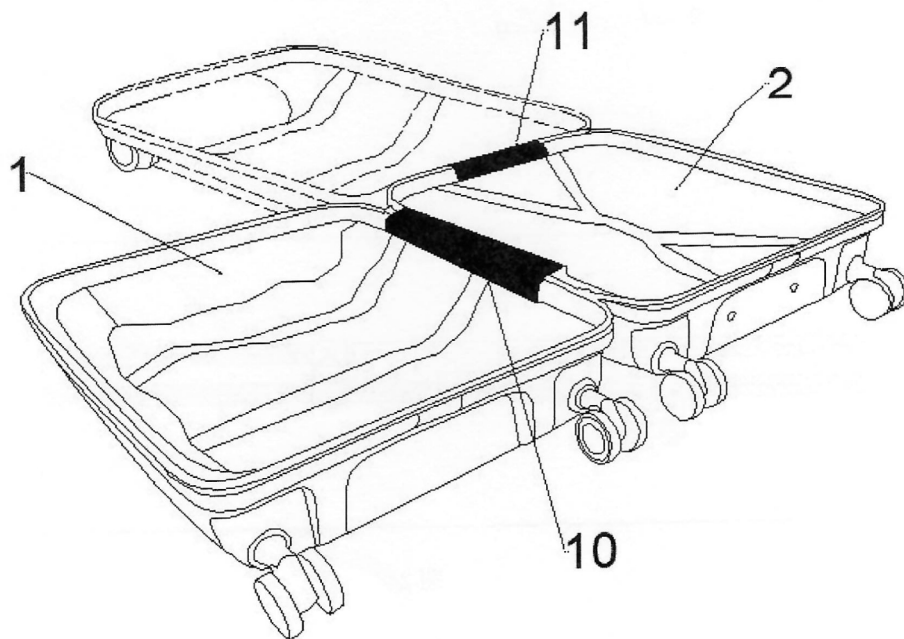


图 4

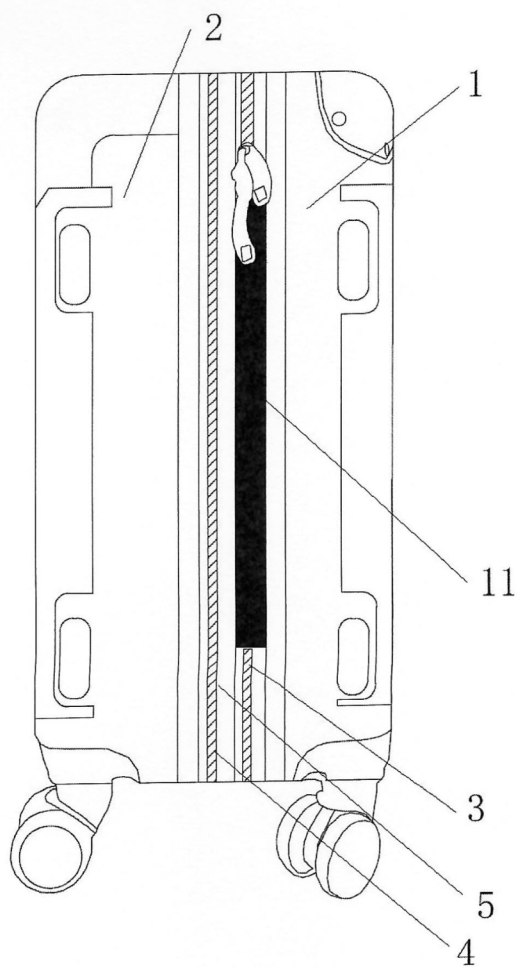


图 5