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(54) **OUTDOOR CANOPY**

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Publication Classification

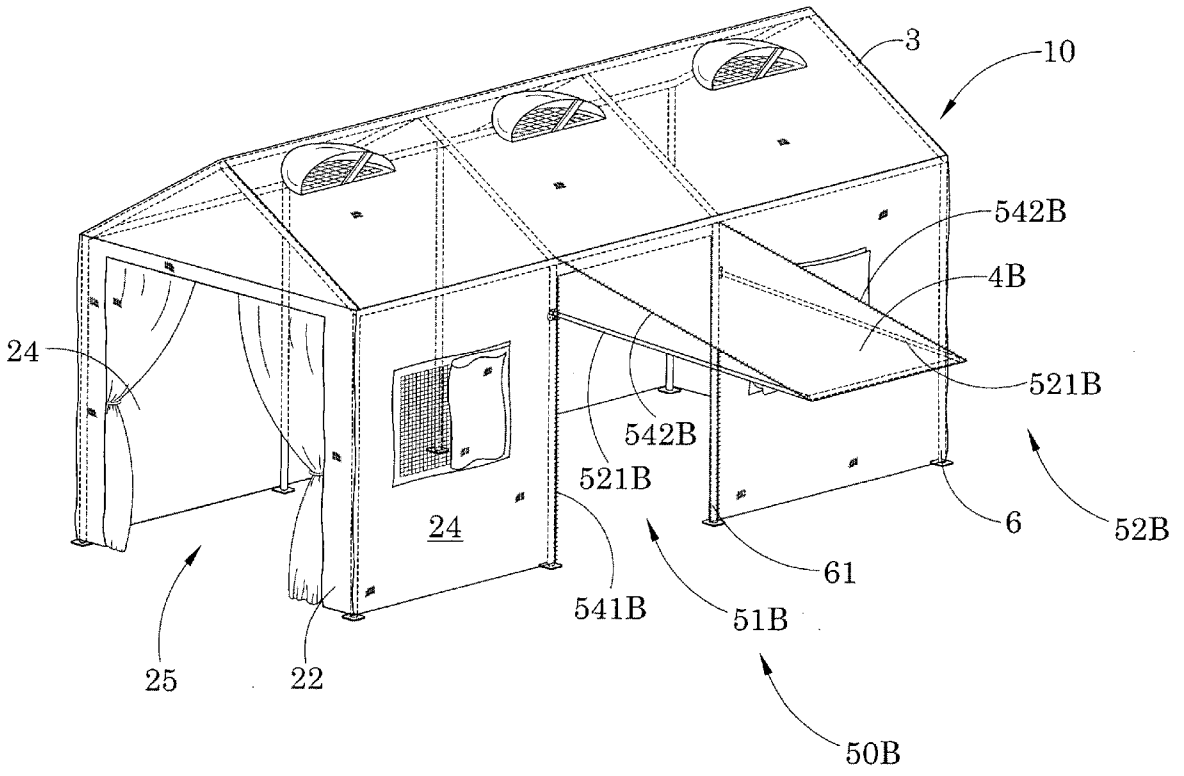
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(52) **U.S. Cl.** **135/122**; 135/115; 135/117; 135/119; 135/142

(57) **ABSTRACT**

An outdoor canopy includes a canopy frame, a canopy shelter and a side entrance arrangement. The canopy frame includes a roof frame and a legs frame downwardly extended from the roof frame to form a canopy area. The canopy shelter, which is made of waterproof fabric, is detachably fastening at the canopy frame to define a ceiling wall, a front wall, a rear wall and two sidewalls for enclosing the canopy area therewithin. The side entrance arrangement is formed on one of the sidewalls of the canopy shelter for a user to gain entry to and exit the canopy area without having to pass through the front entrance, wherein the side entrance arrangement contains a side entrance opening formed on the corresponding sidewall of the canopy shelter, and comprise at least one entrance fabric operatively mounted on the corresponding sidewall.



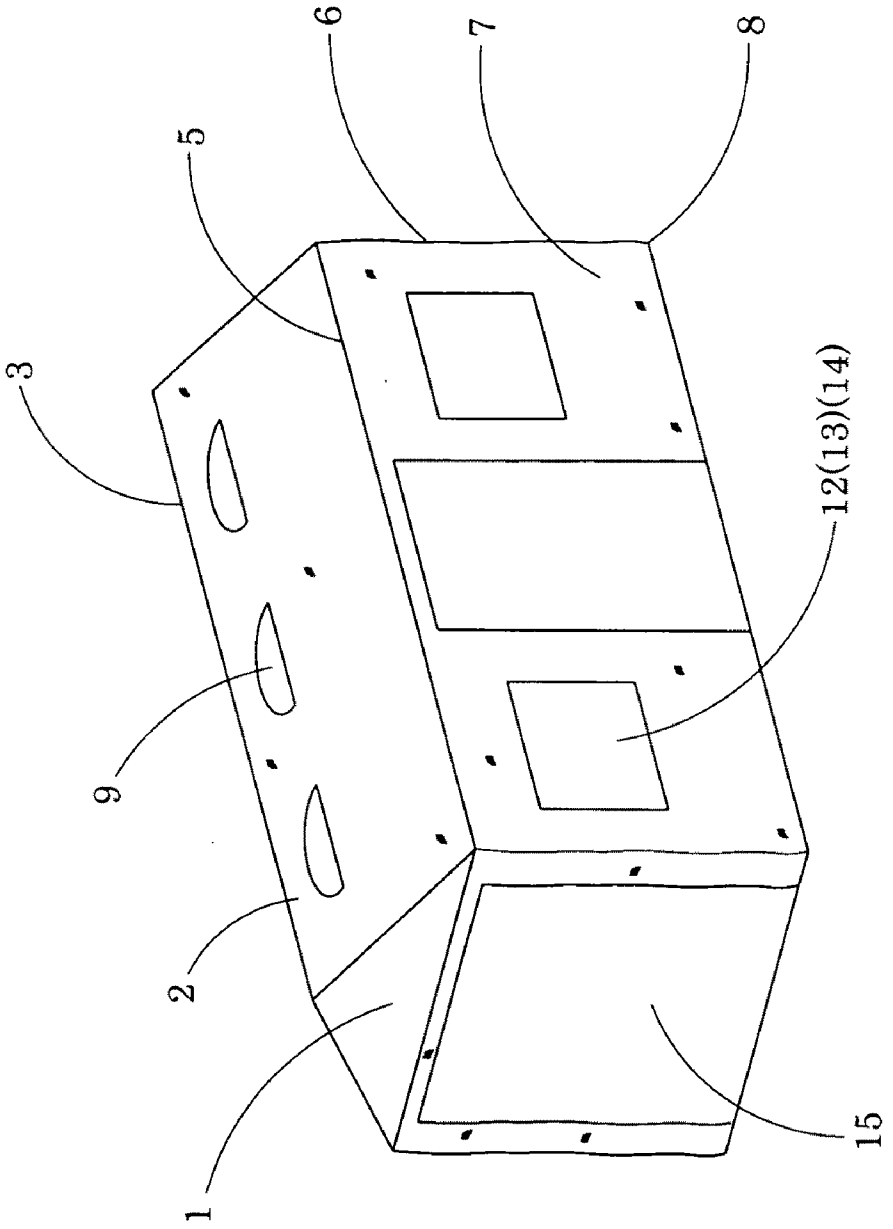


FIG. 1

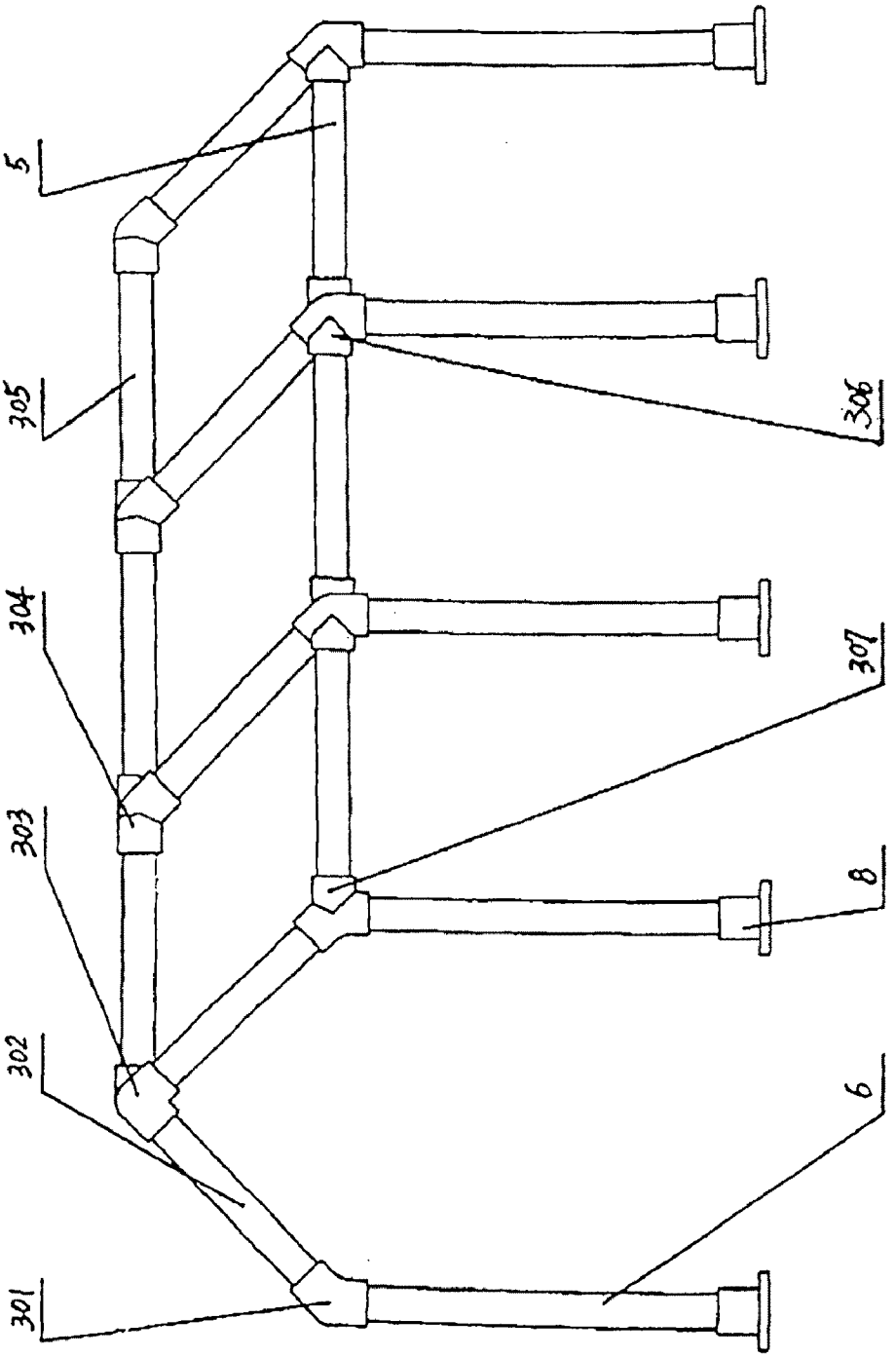


FIG. 2

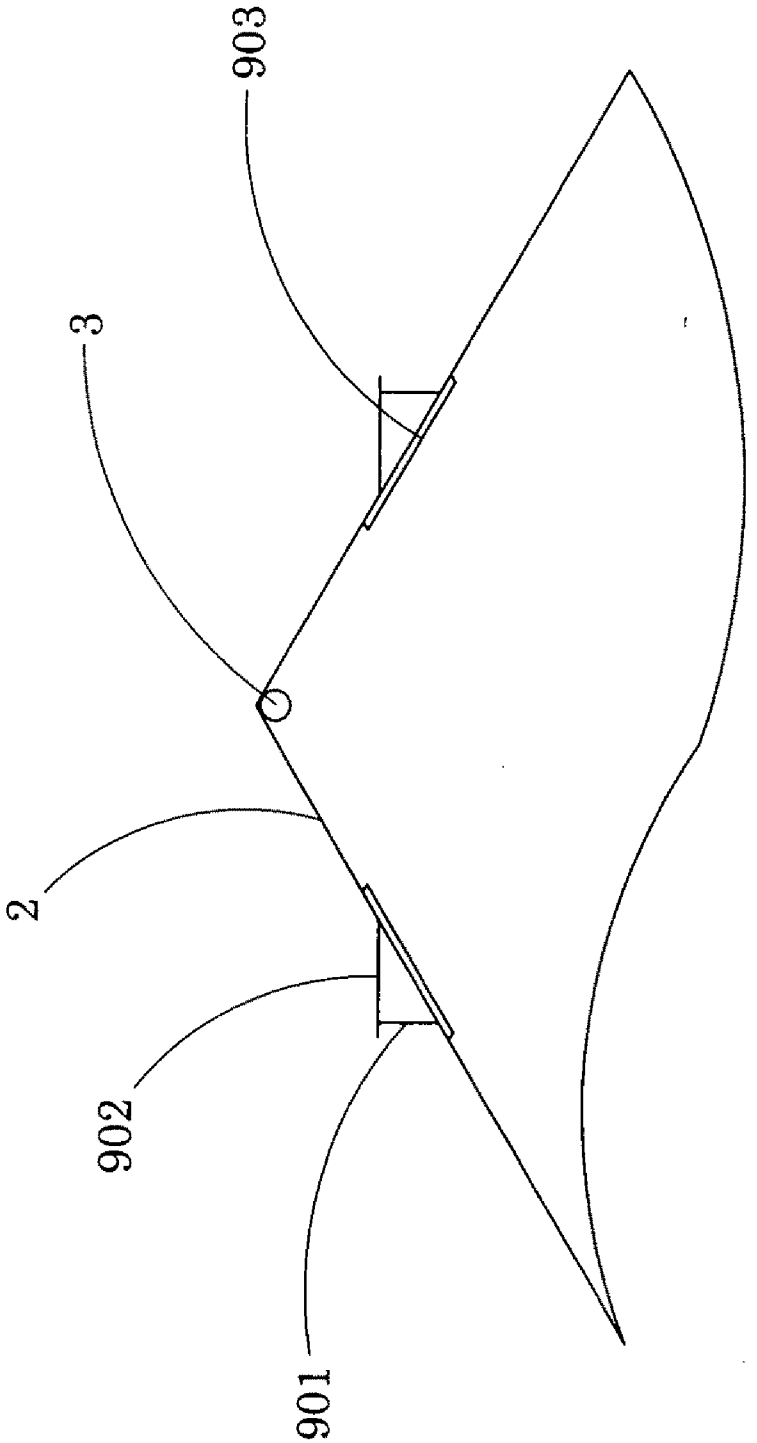


FIG.3

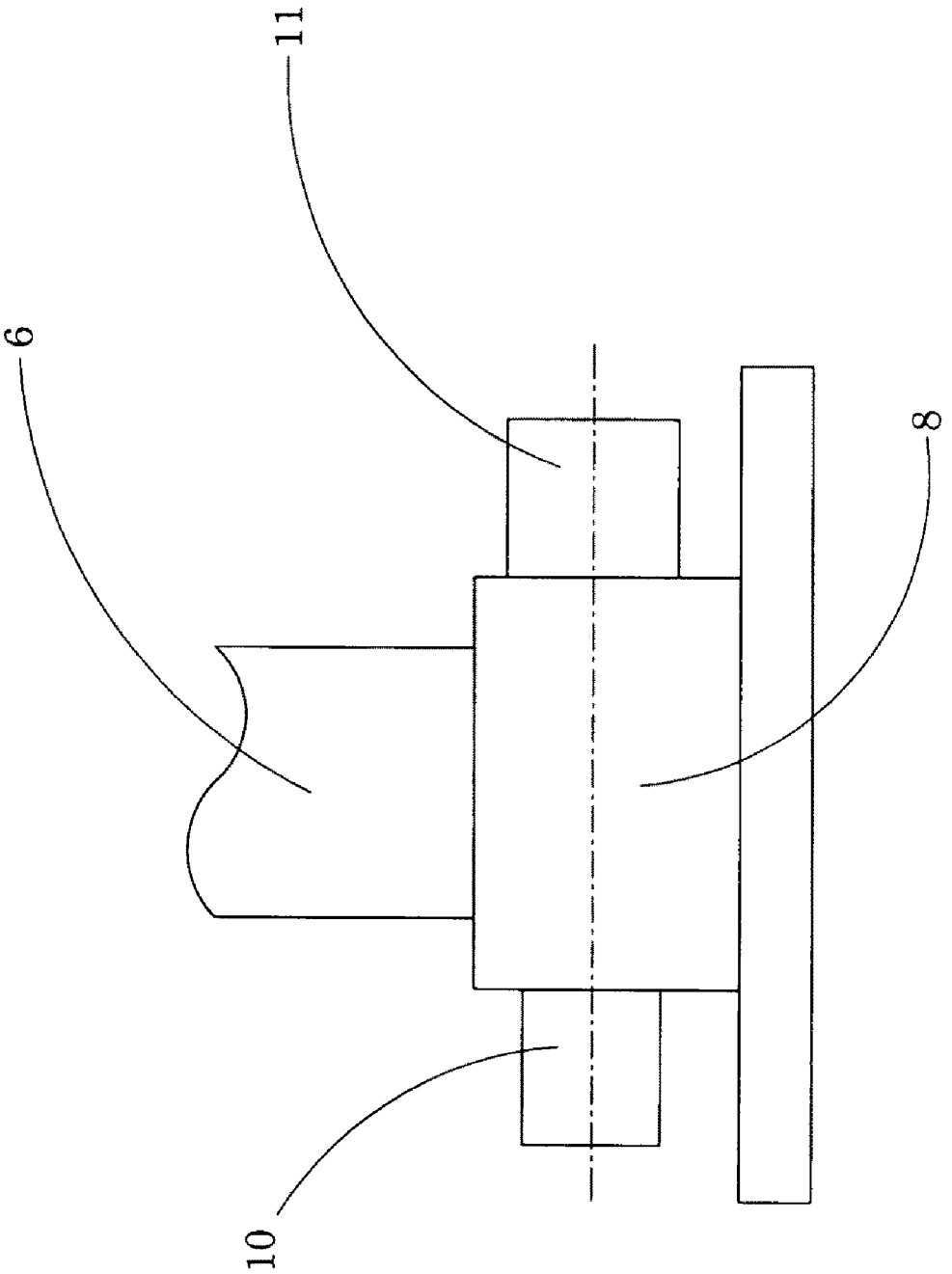


FIG. 4

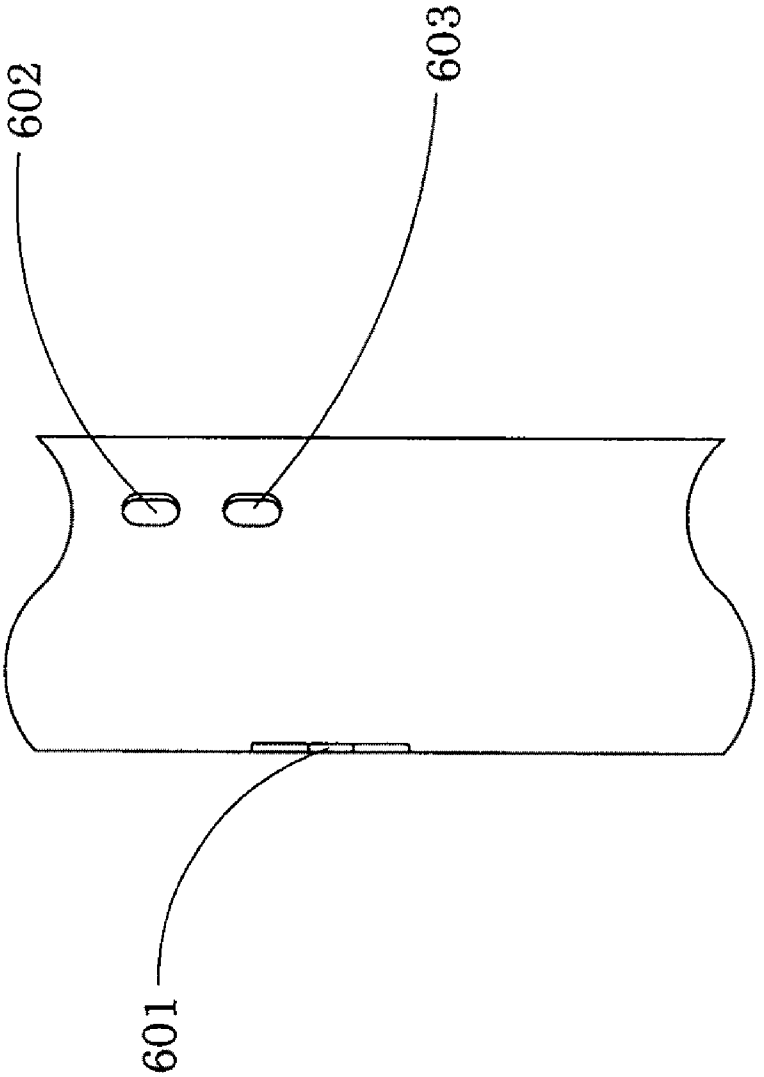


FIG.5

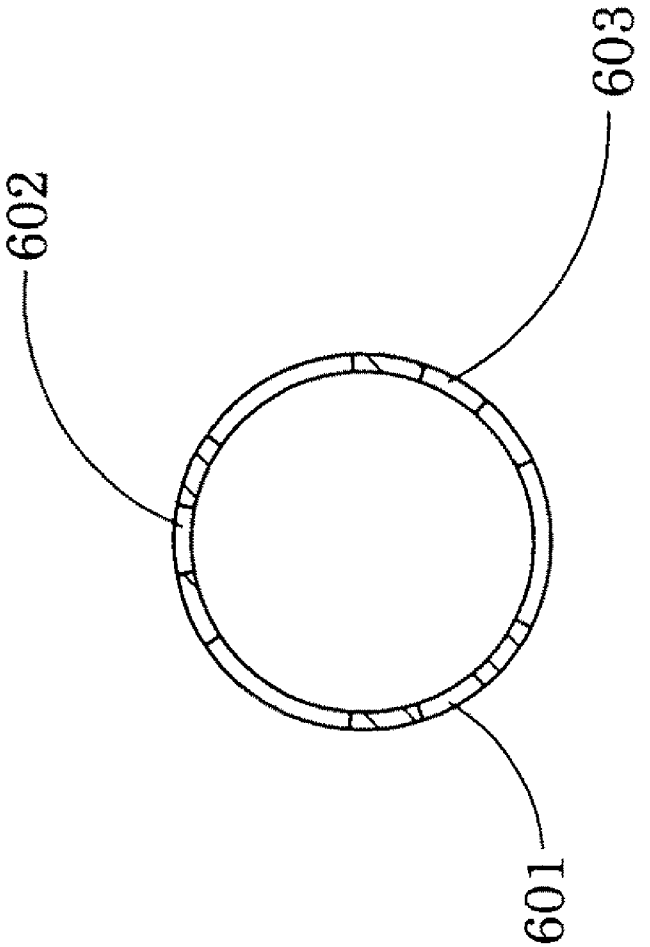


FIG.6

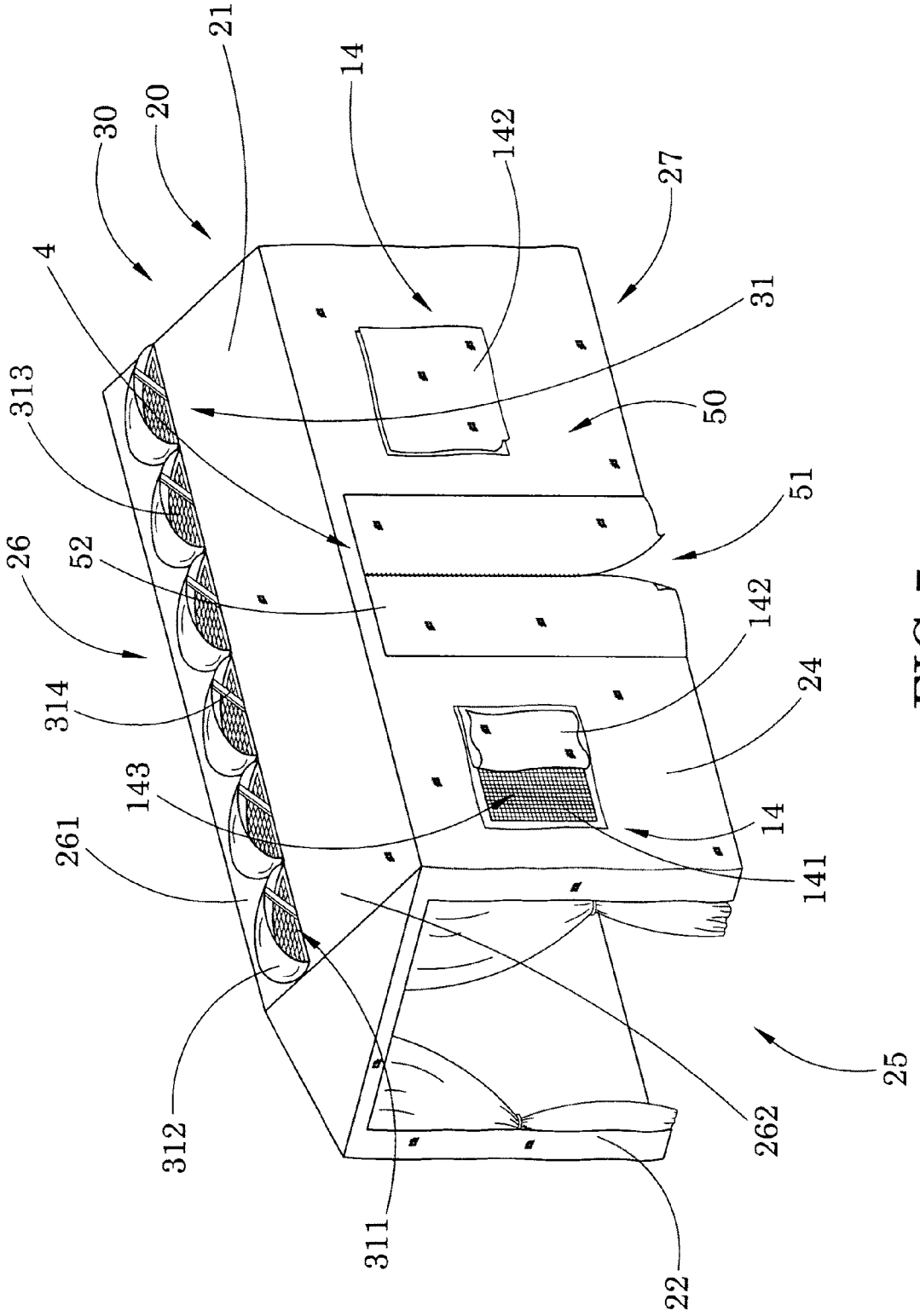

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FIG.7

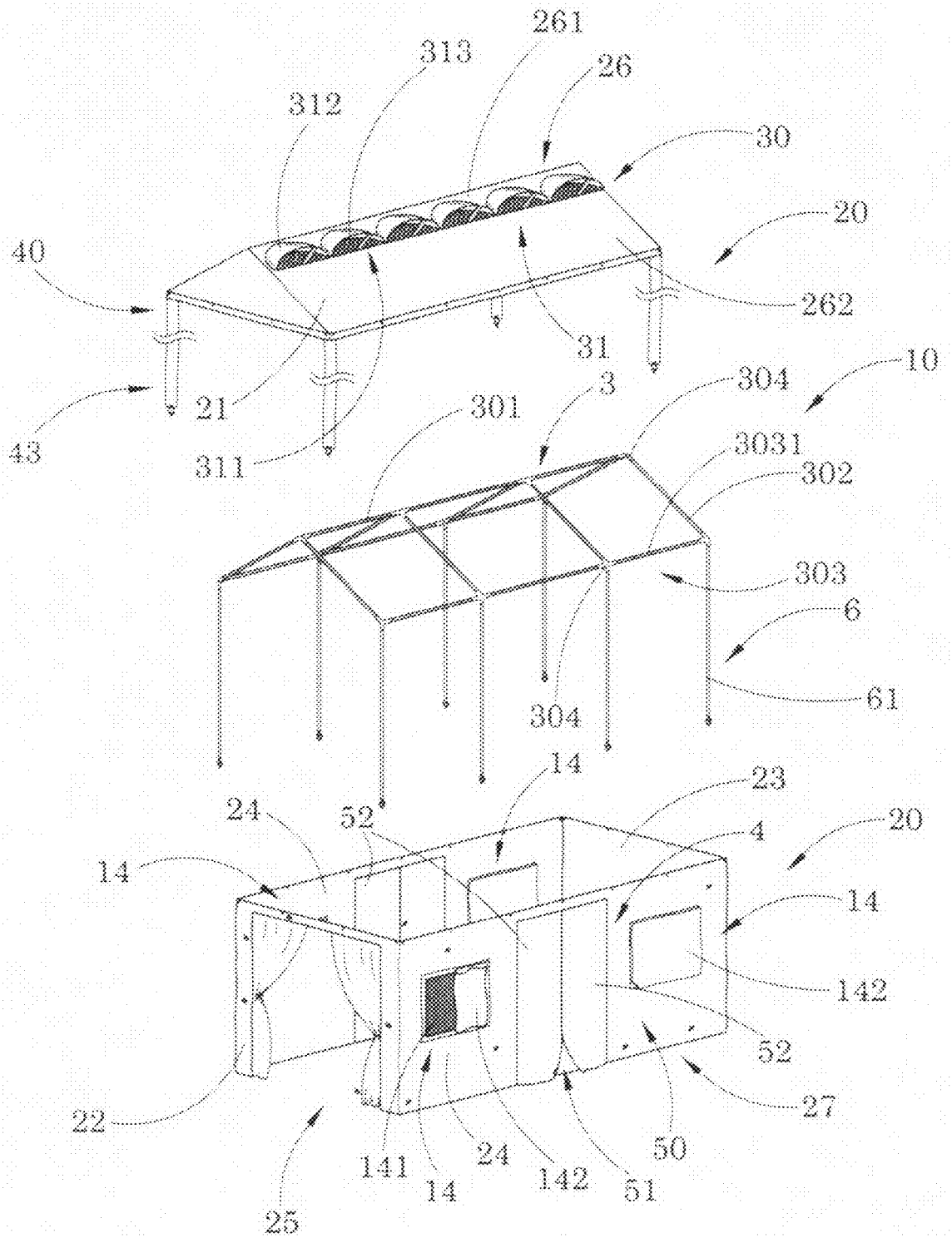

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FIG.8

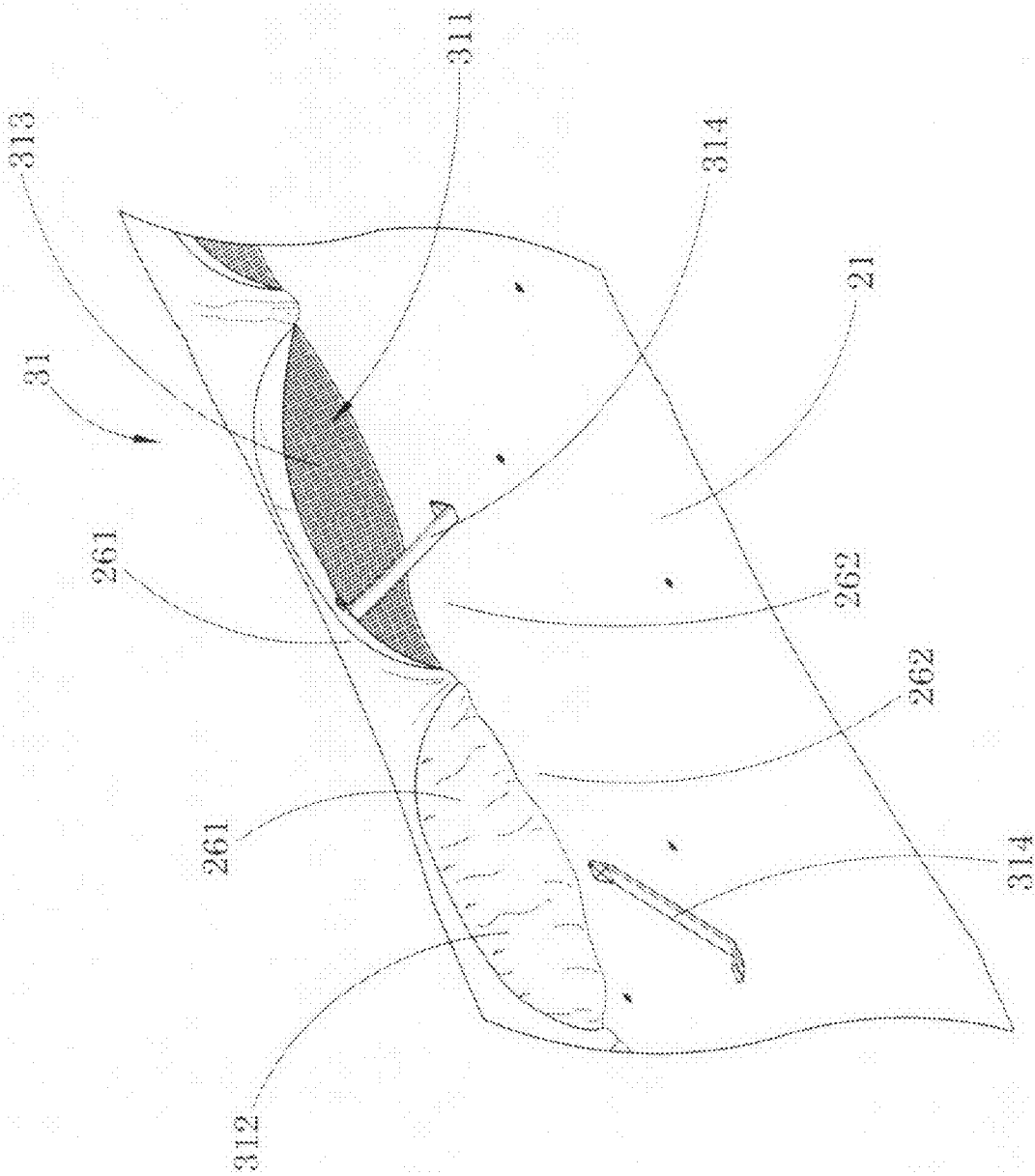


FIG.9

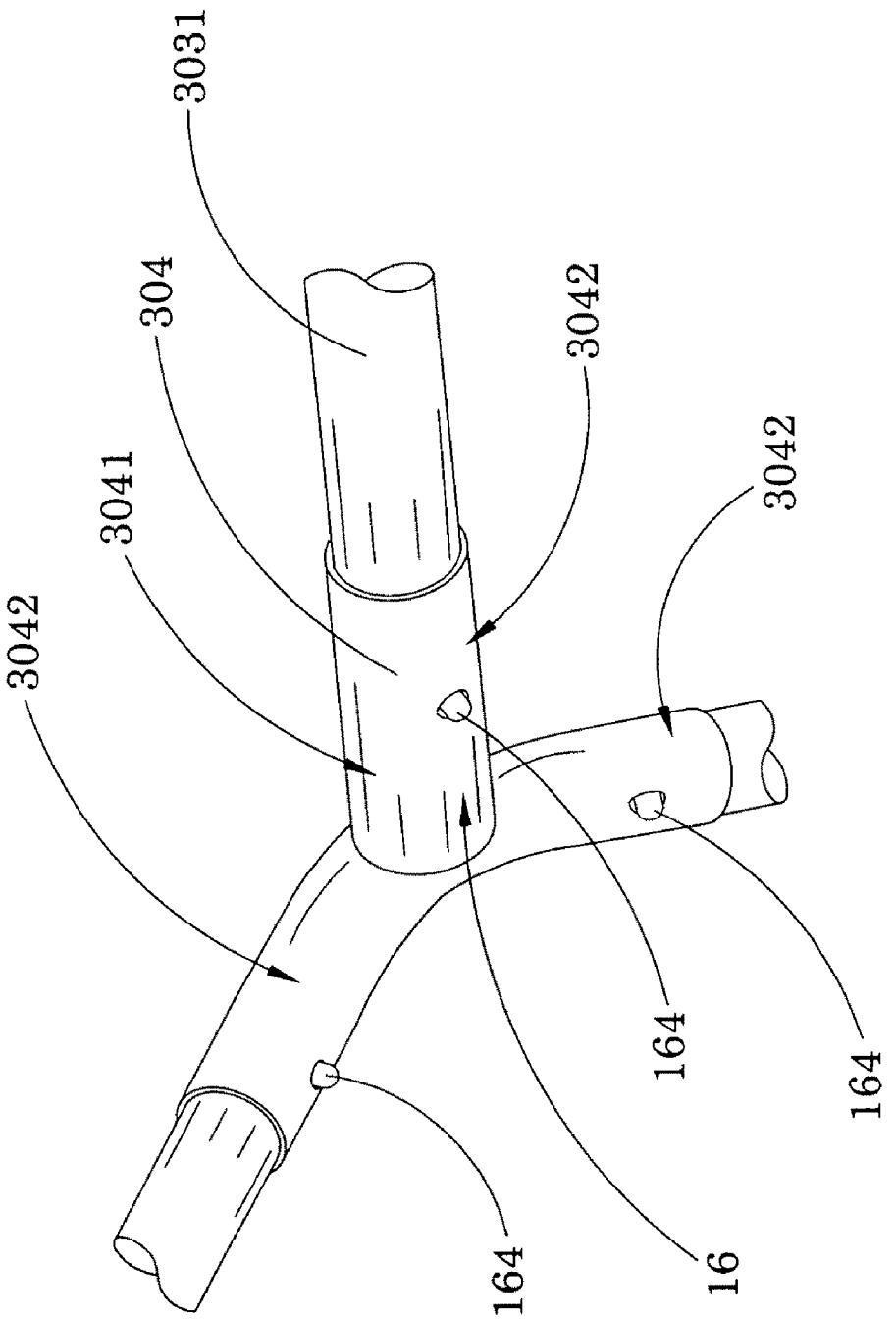


FIG.10A

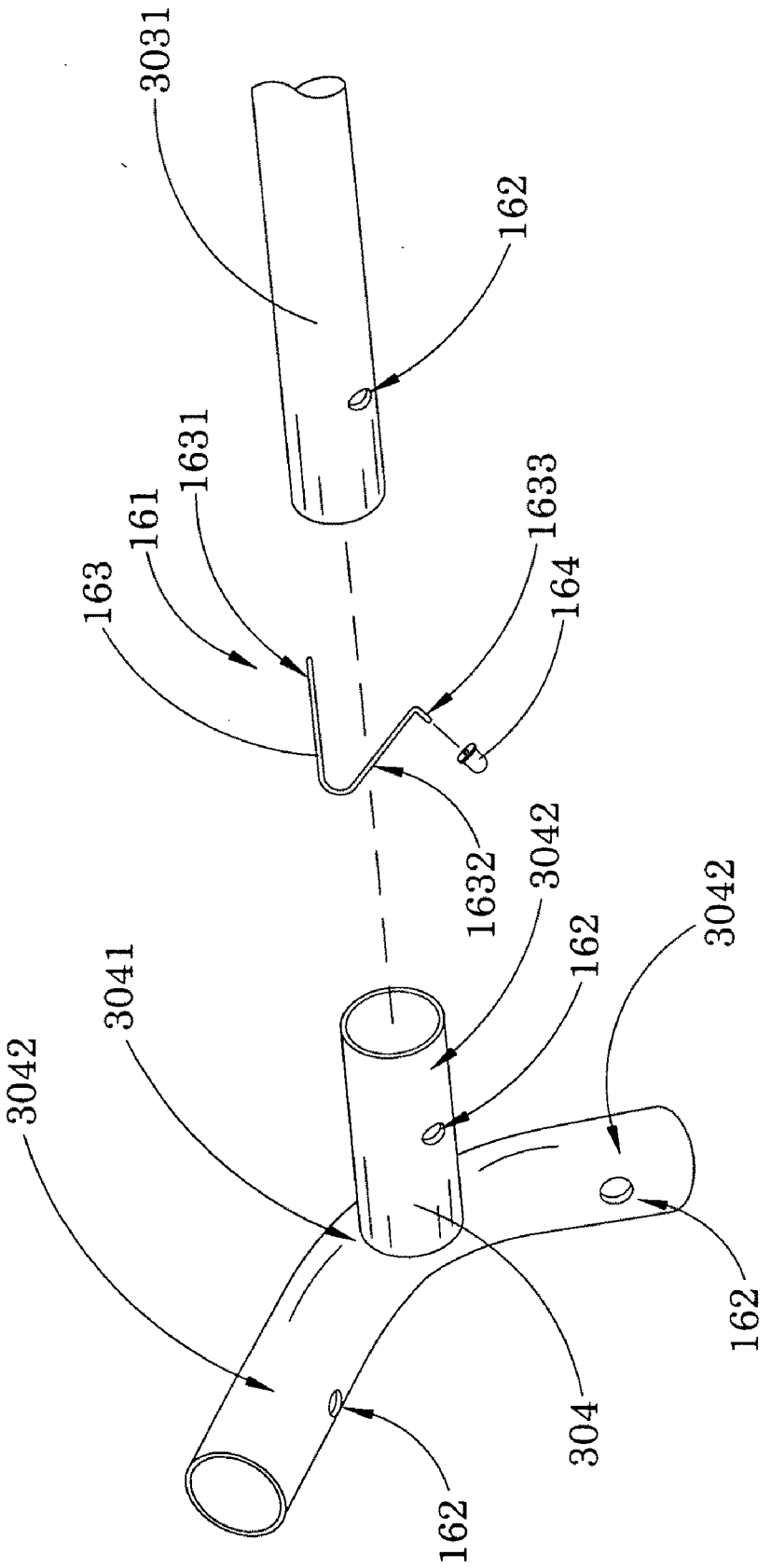

3031
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304
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FIG.10B

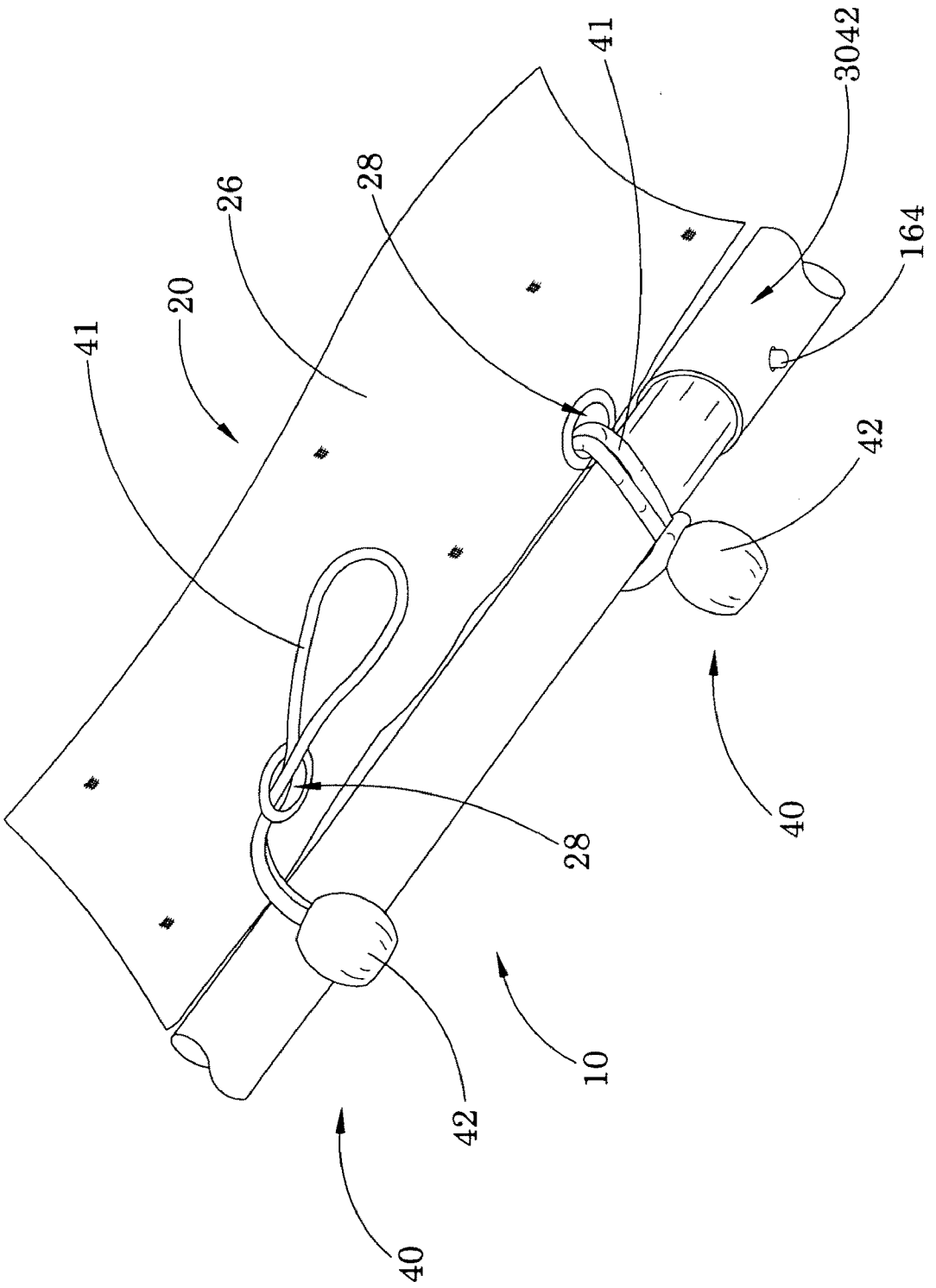


FIG.11

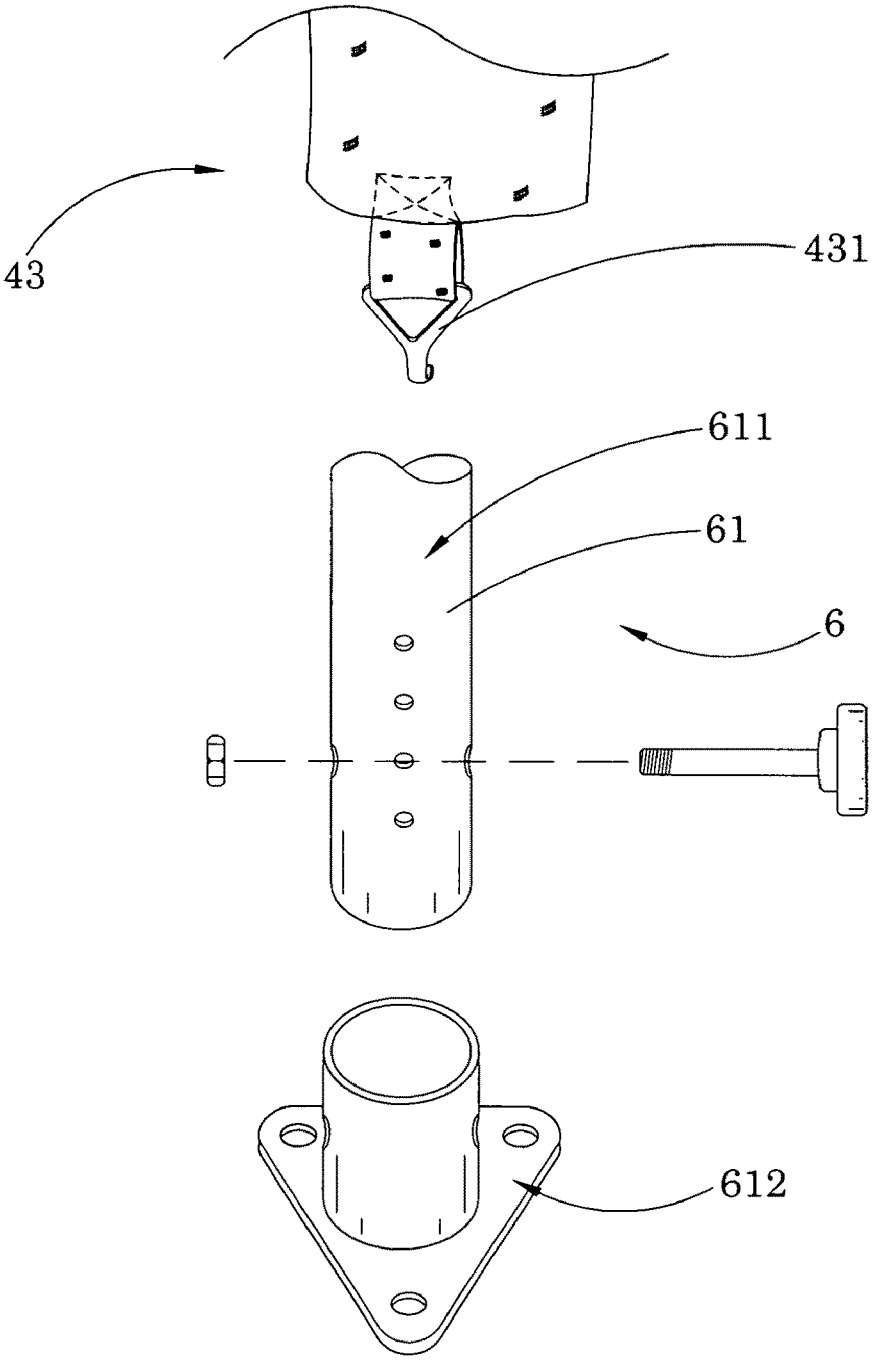


FIG.12

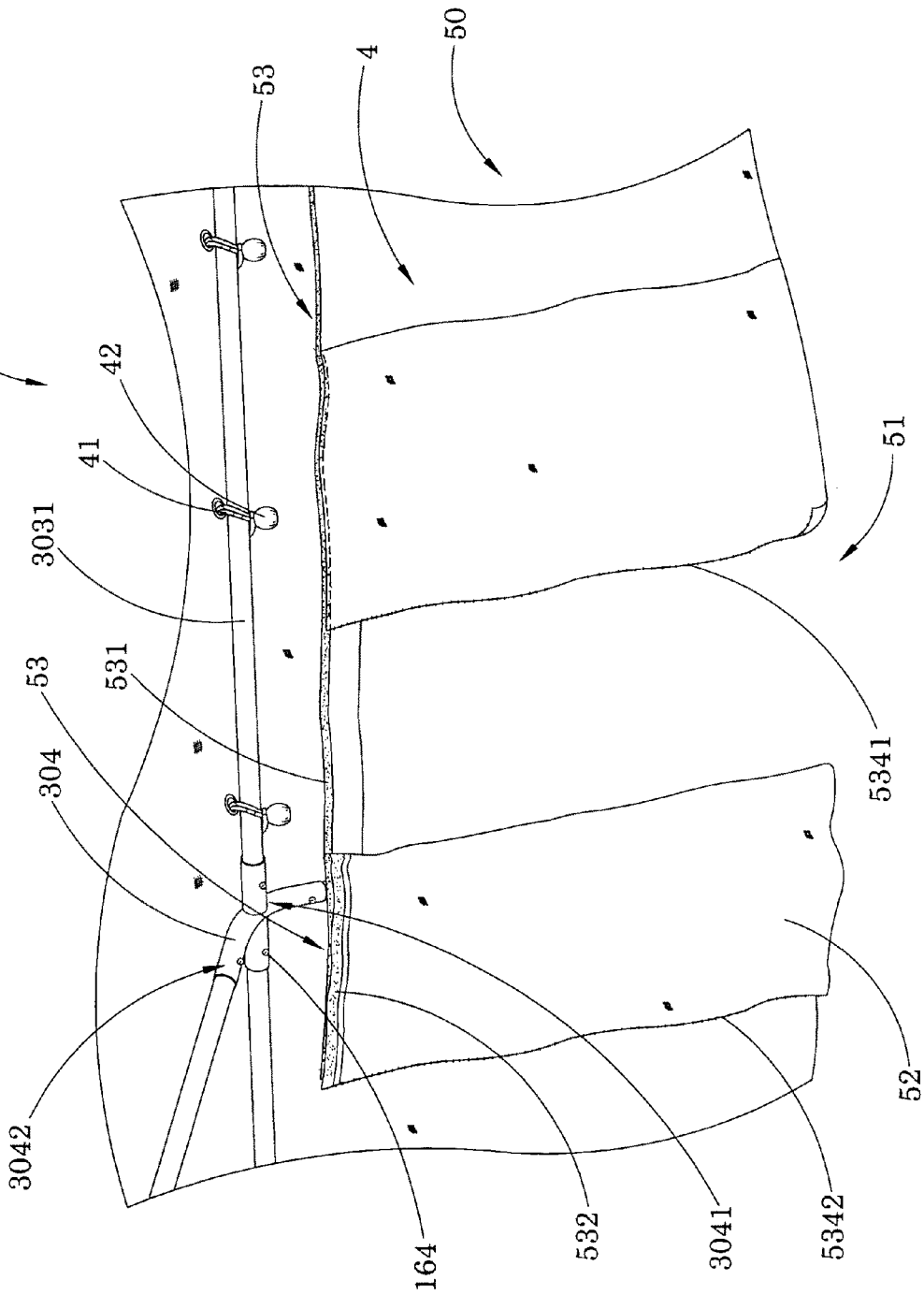


FIG.13

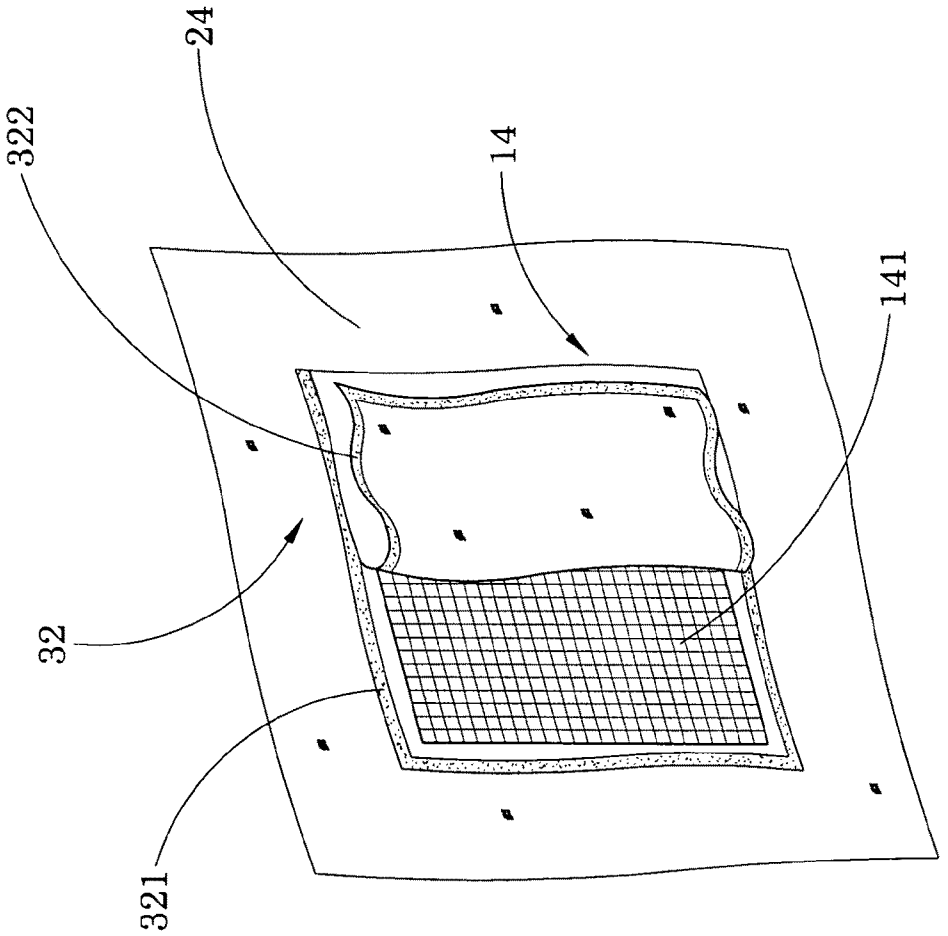


FIG.14

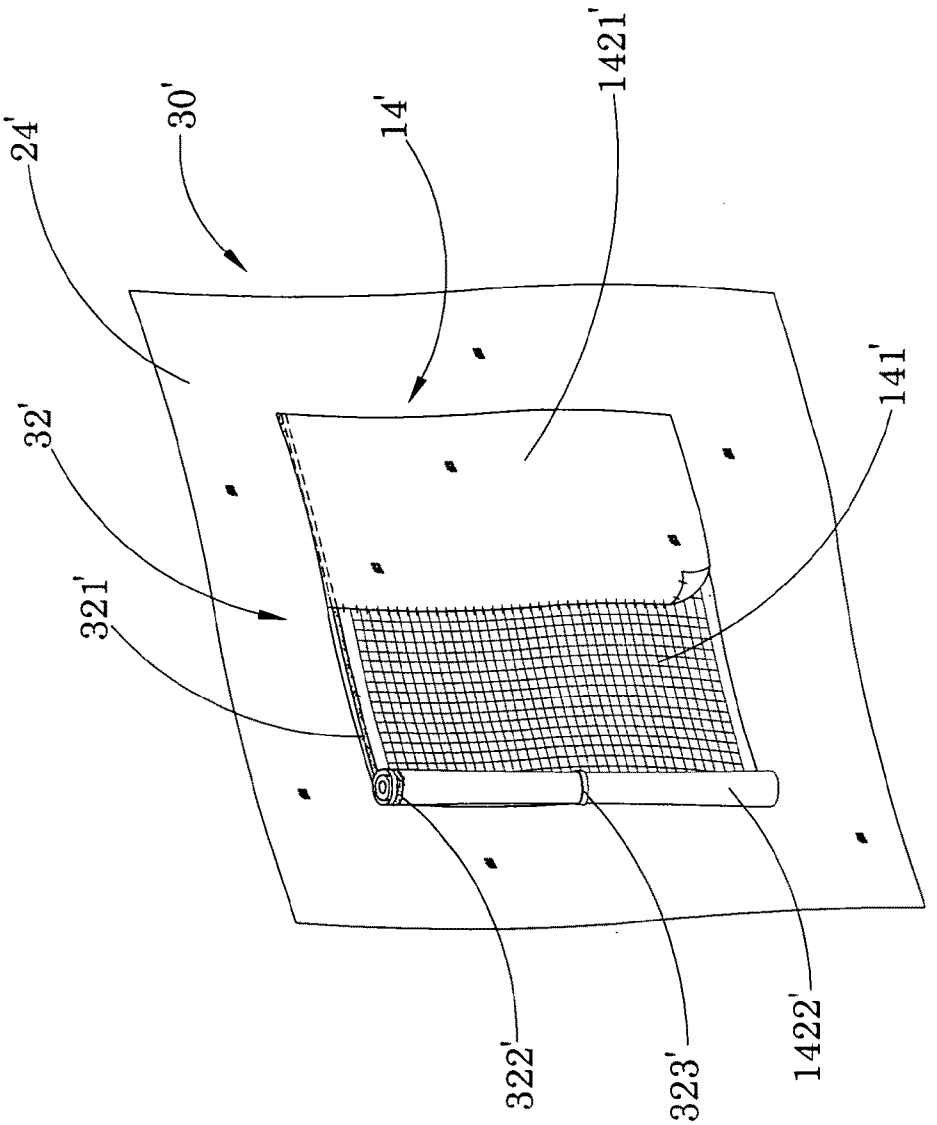


FIG.15

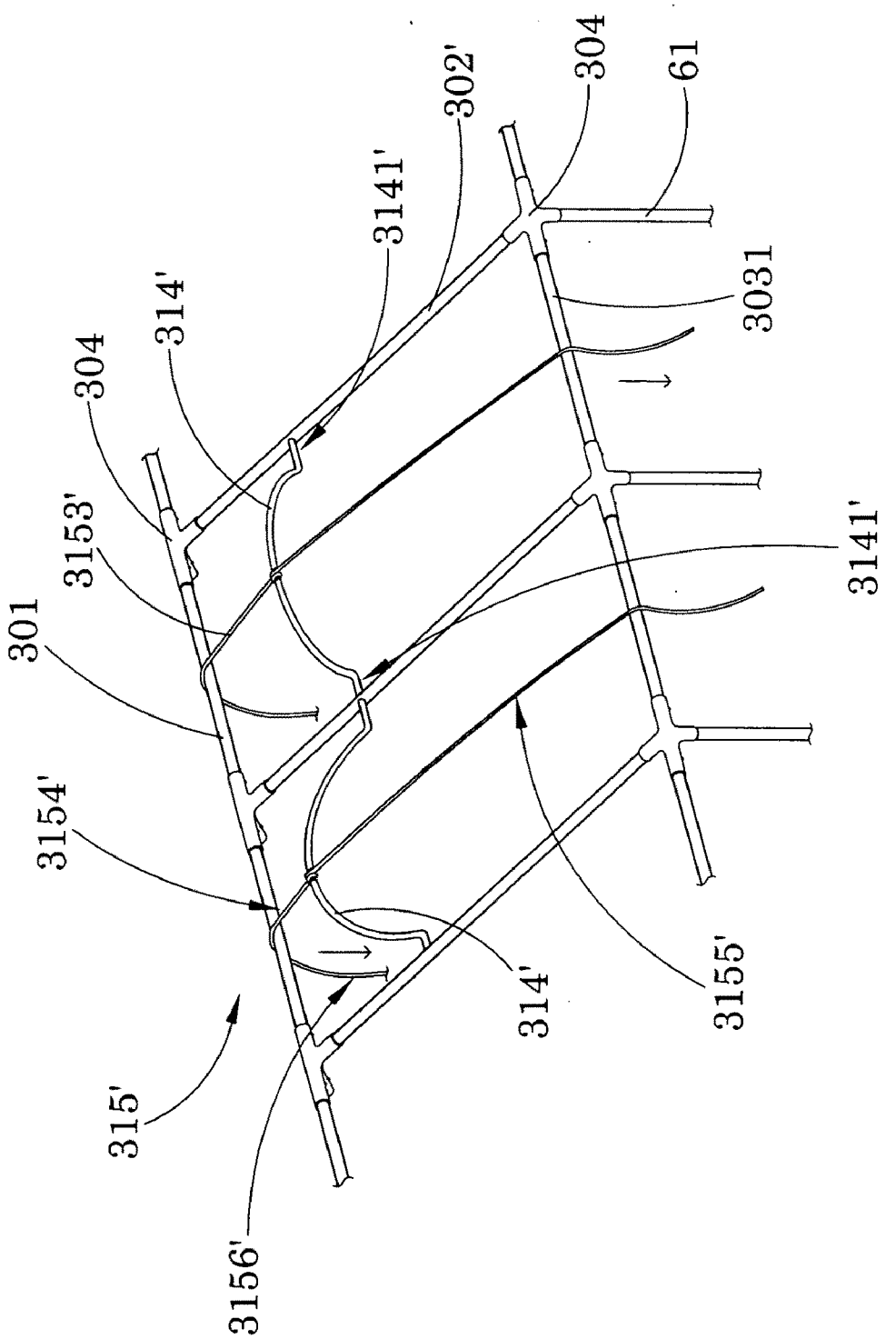

304
61
302'
3141'
314'
304
3031
3153'
3141'
301
3154'
315'
3156'
314'
3155'

FIG.16A

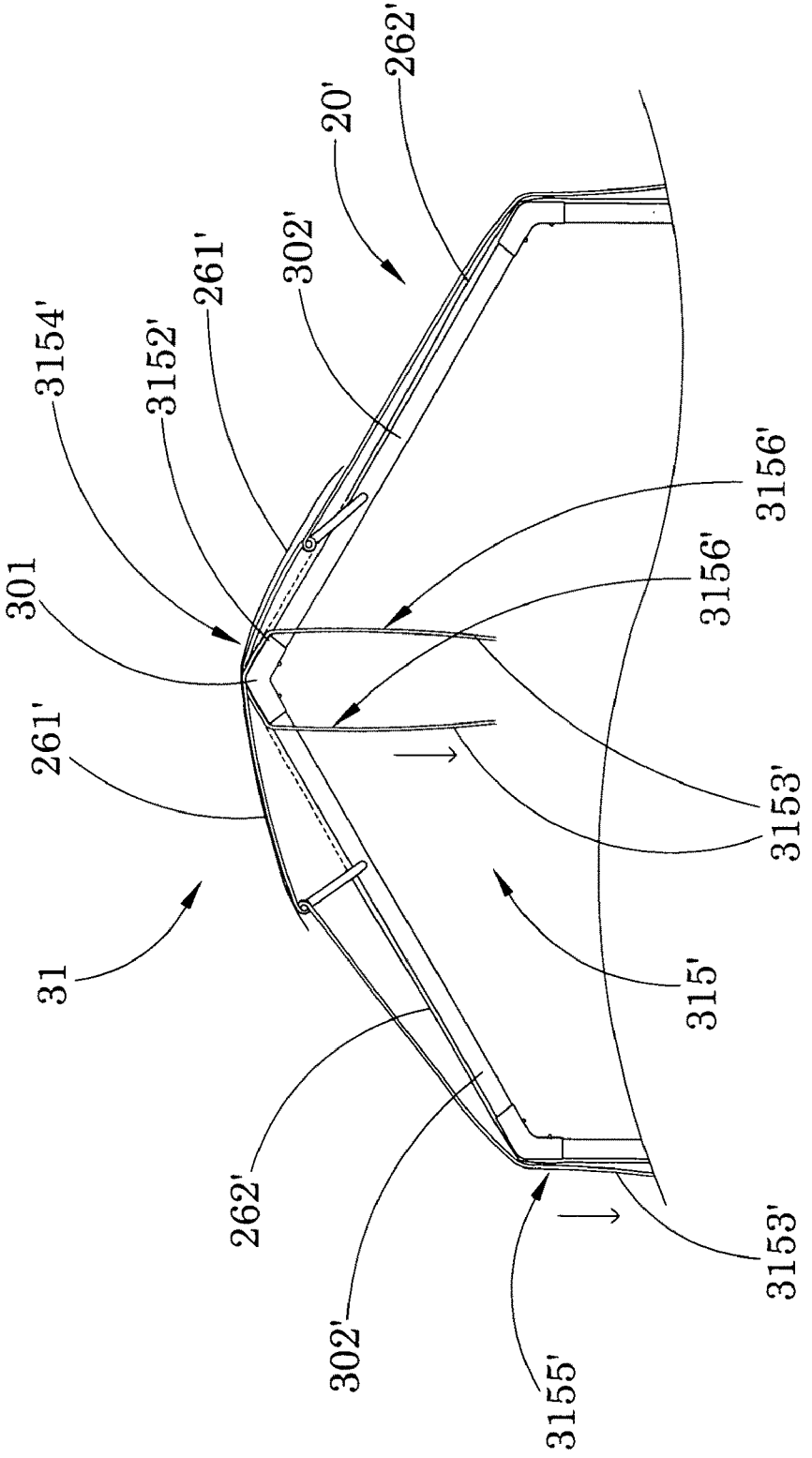

262'
20'
302'
261'
3152'
3154'
301
261'
31
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302'
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315'
3156'
3156'
3153'

FIG.16B

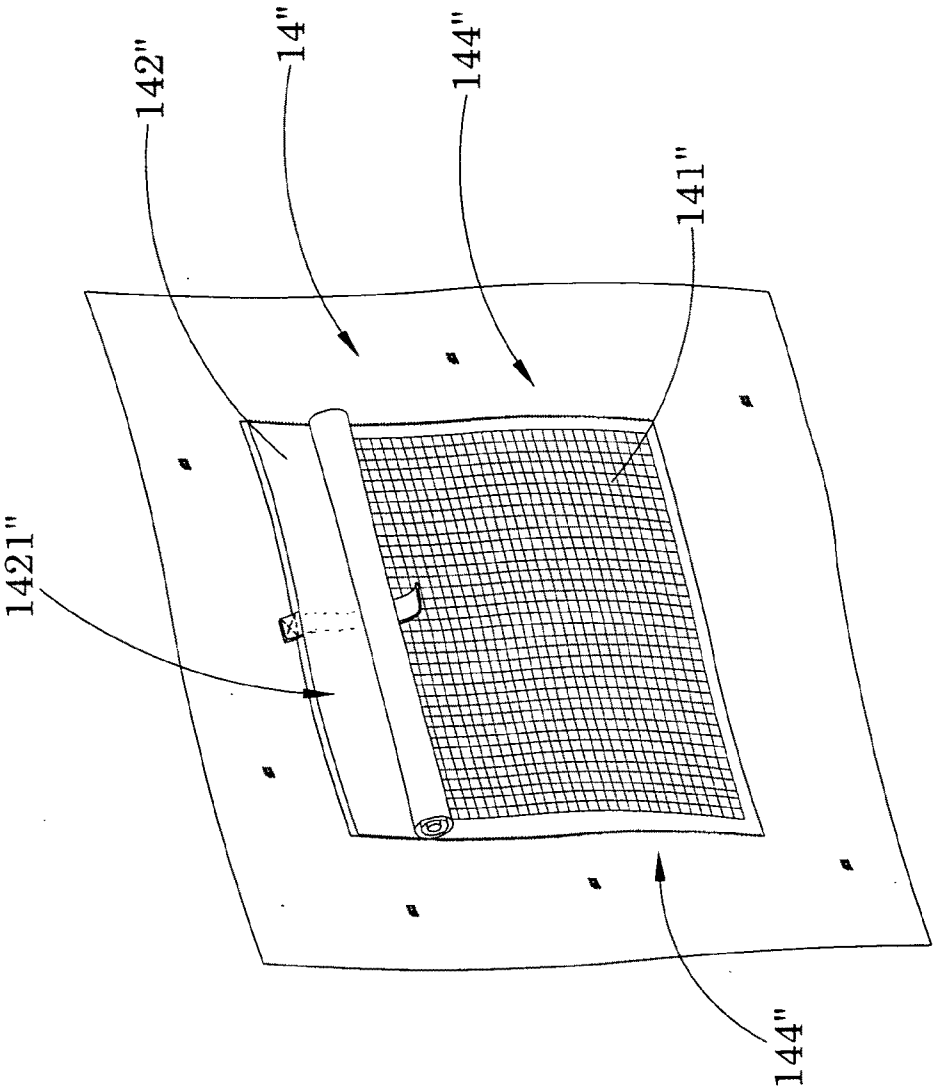


FIG.17

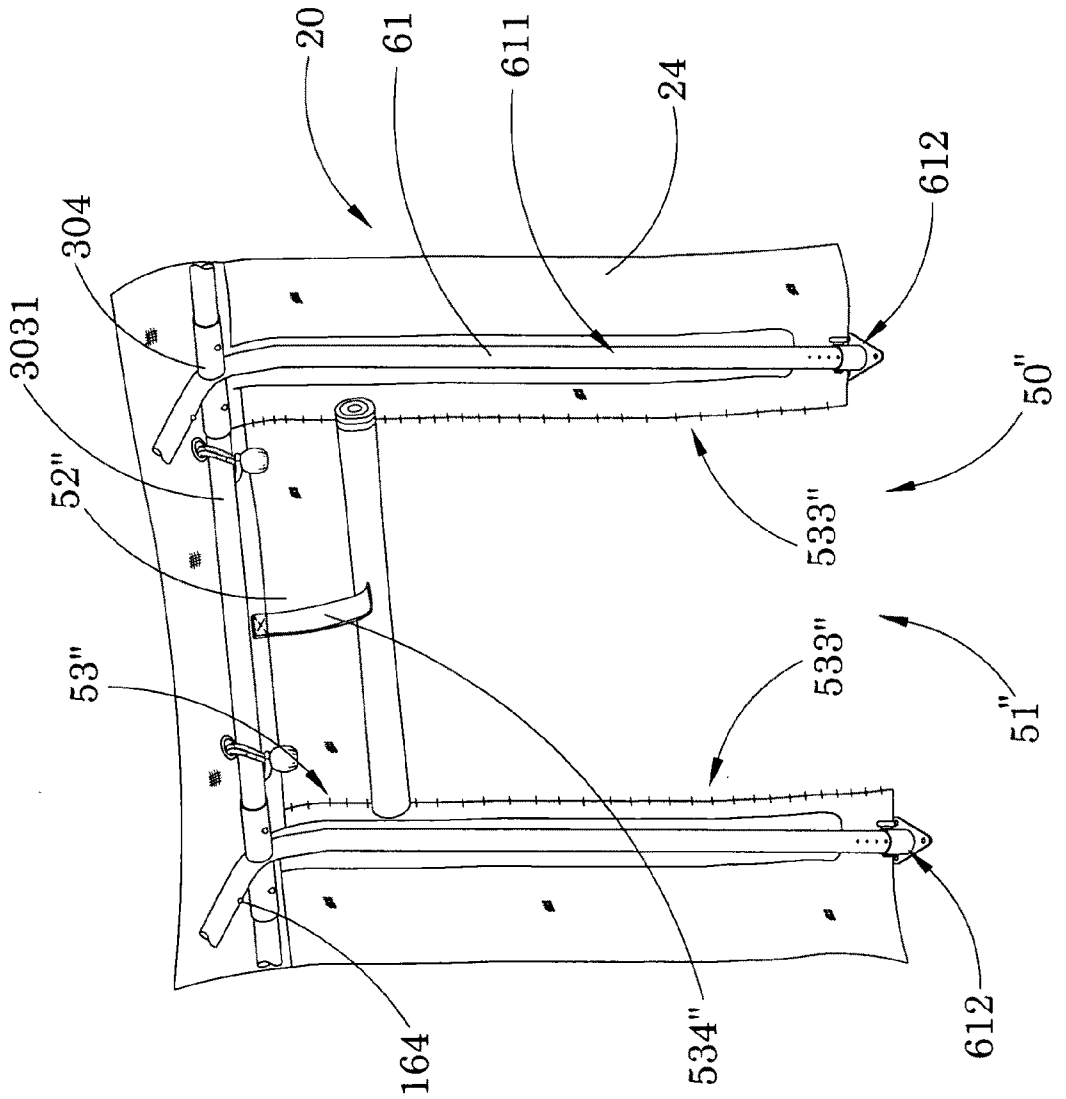


FIG.18

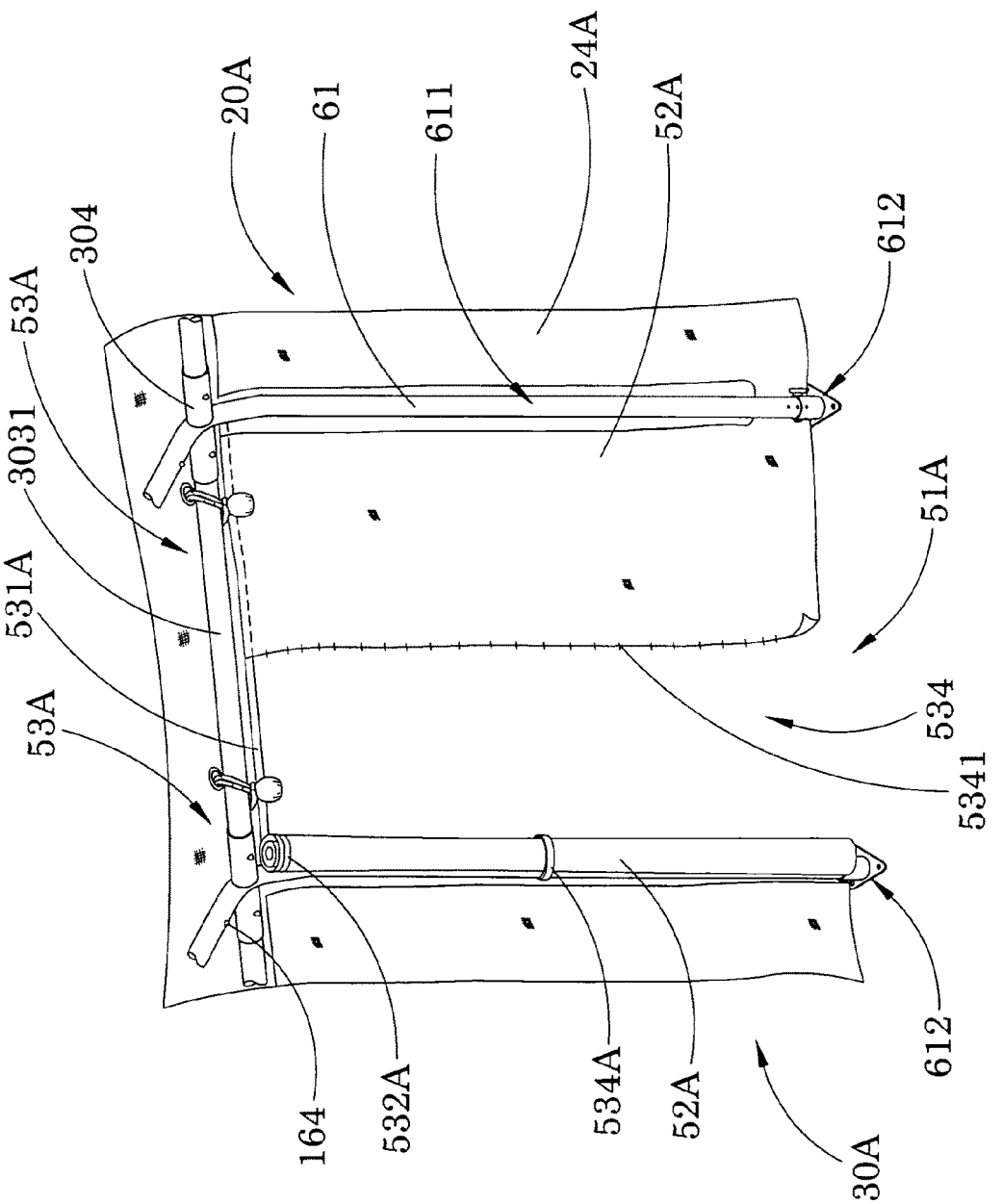

20A
61
611
24A
52A
612
304
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3031
531A
53A
51A
534
5341
164
532A
534A
52A
612
30A

FIG.19

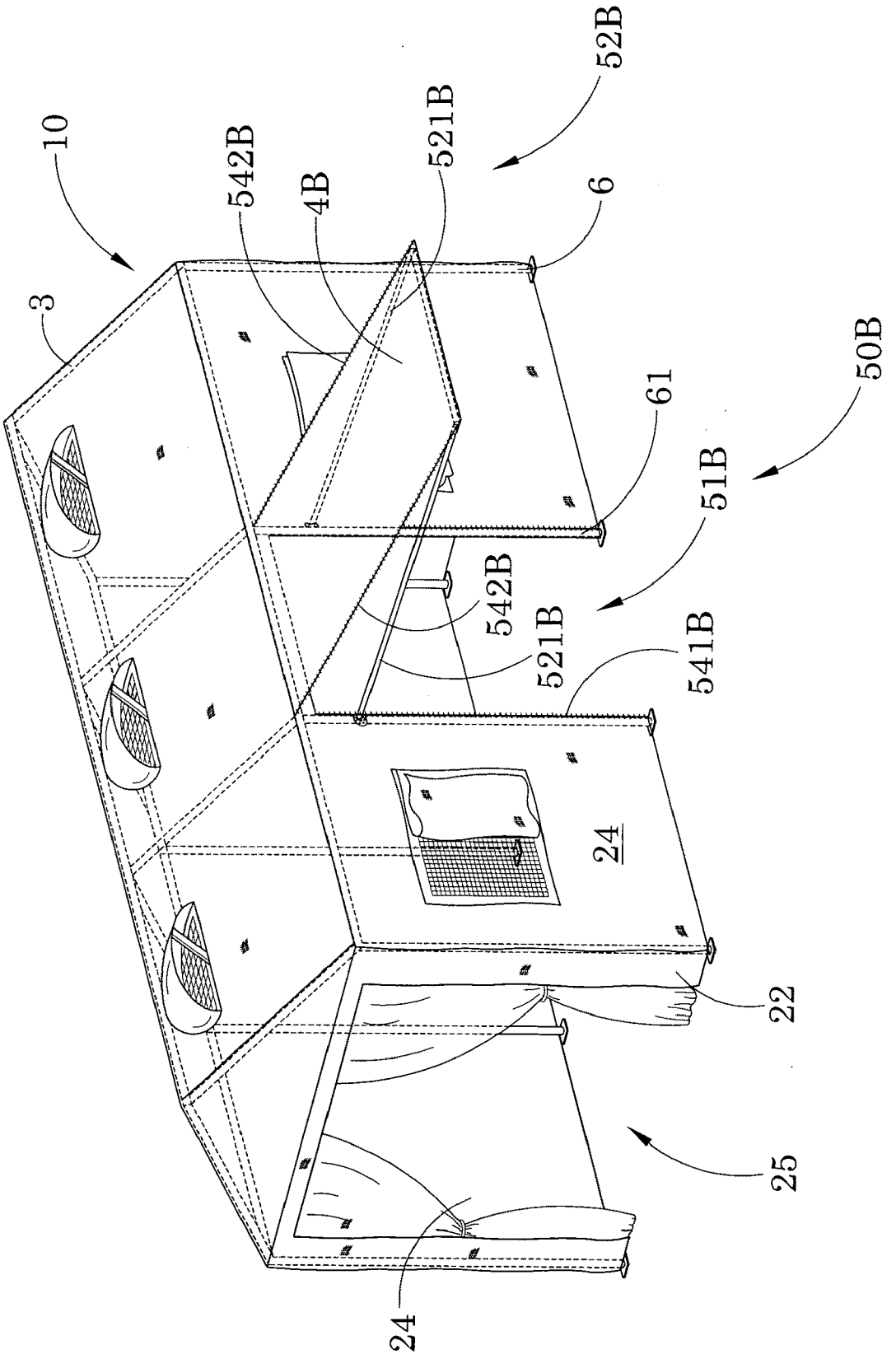


FIG.20

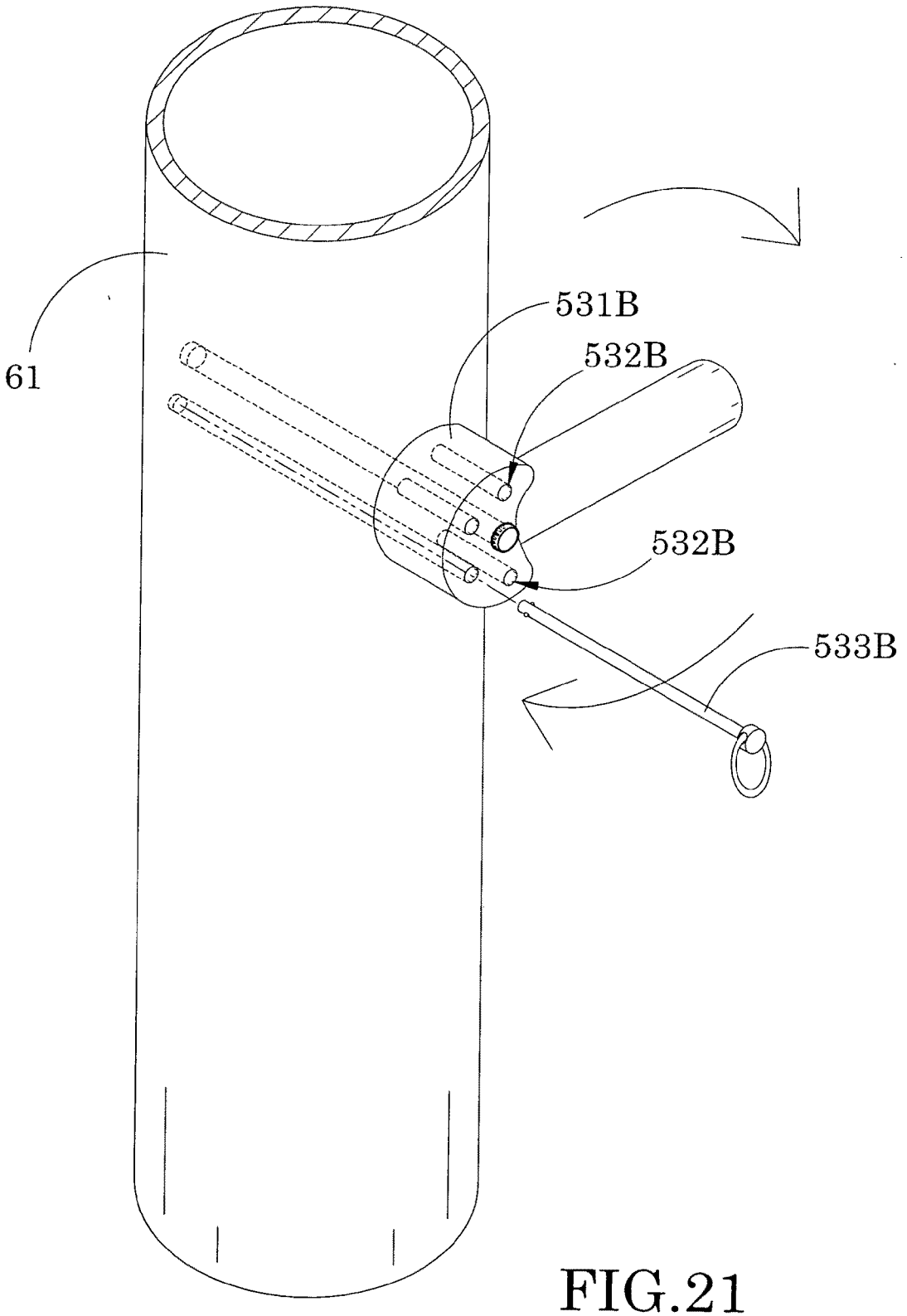


FIG.21

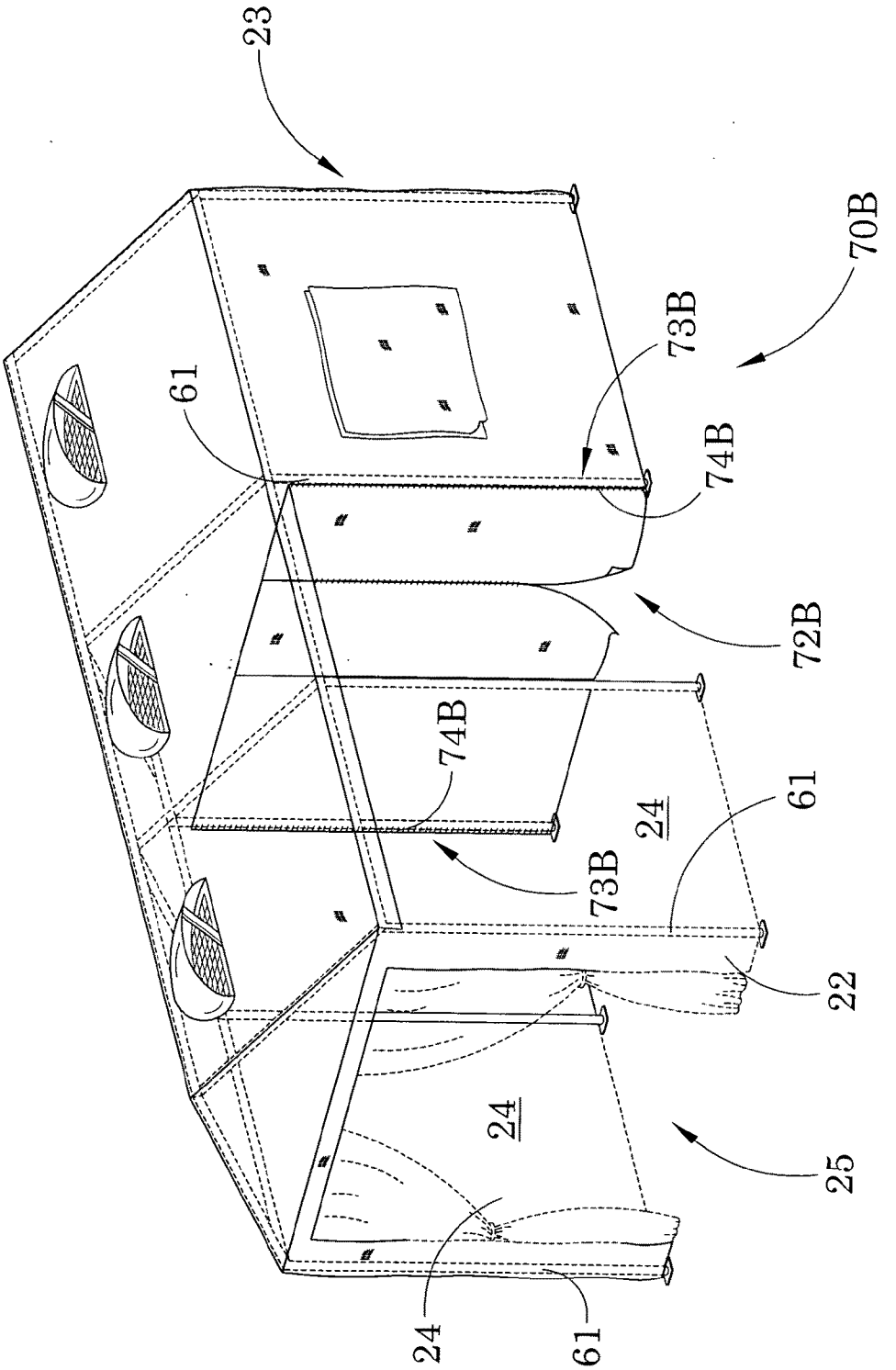


FIG.22

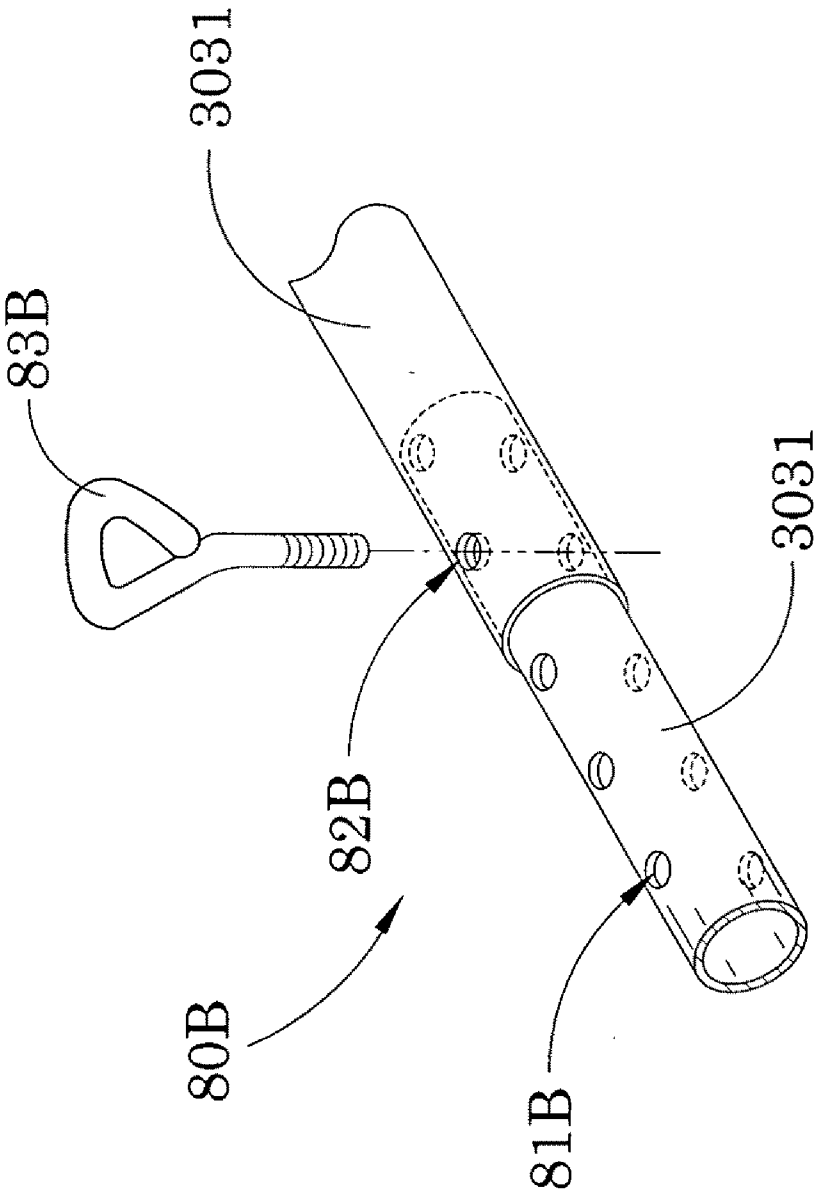


FIG.23

OUTDOOR CANOPY

CROSS REFERENCE OF RELATED APPLICATION

[0001] This application is a CIP application of a non-provisional application having an application Ser. No. 12/800,133 and a filing date of May 7, 2010, which is a continuation application, application Ser. No. of 11/636,793, and a filing date of Dec. 8, 2006, which is a continuation-in-part of a non-provisional application, application Ser. No. of 11/583,247 and a filing date of Oct. 18, 2006.

BACKGROUND OF THE PRESENT INVENTION

[0002] 1. Field of Invention

[0003] The present invention relates to a canopy, and more particularly to a canopy for a vehicle which comprises a ventilation arrangement which is capable of providing effective ventilation within the canopy, and is easy to install for convenient outdoor use.

[0004] 2. Description of Related Arts

[0005] A canopy for a vehicle provides users with a specific place to avoid direct exposure from strong sunshine, such as in villas, beaches, hotels, apartments etc. Although more and more functions and shapes being designed by inventor on canopies, there exist several disadvantages for conventional canopies. First, the function of the wind-proof arrangement in conventional canopies is not good. Especially when we use the canopy in windy days, the fabric could easily be rolled up. Second, because the height of the canopy can not be adjusted, it is not convenient for people to use. Third, most conventional canopies do not have an independent lighting system so that people may not conduct social activities in the canopies during night time or in a dark environment.

[0006] There are other problems. As a matter of fact, most conventional canopies are difficult to assemble and disassemble. This may due to the fact that most conventional canopies are designed for use in outdoor environment, where strong wind and adverse weather condition may be prevalent. Thus, the physical structure of most conventional canopies may be designed in such a manner that it could resist strong wind and adverse weather condition. Very often, this means that an inflexible mounting mechanism is employed. In other words, give the nature of outdoor canopies, one may wish to have an outdoor which is easy to assemble and disassemble (i.e. easy to transport and install). On the other hand, however, since the canopies are to be used in outdoor environment, one also wishes them to possess adequate ability to resist strong wind and other adverse weather conditions.

[0007] Furthermore, for most conventional canopies, they may have certain windows formed thereon for ventilation. For example, a conventional canopy may comprise a supporting frame, a shading fabric supported by the supporting frame to define a front fabric panel, a rear fabric panel, and two inclined side fabric panels, wherein the windows are formed on the two side fabric panels for communicating the area on which the shading fabric is covered, and an exterior of the canopy. The problem with this feature is that while windows may provide ventilation for the canopy, they do so by sacrificing the privacy of the people staying within the canopy. More specifically, conventional canopies do not usually have some sorts shading for allowing the users to selectively cover up the window so that they will find that the provision of windows may actually bring inconvenience to them.

[0008] Moreover, for conventional car canopies, there exists a problem that there are inadequate canopy doors for users. For example, a typical car canopy usually has a main door opening formed on a front side thereof for a vehicle to pass therethrough. Very often, however, the users will find that it is very difficult for them to reach the door of the vehicle through the main door opening because when a vehicle has parked within the canopy, there may have very little space left for the users.

[0009] In order to efficiently utilize all the spaces, the user may want to store some stuff in the outdoor area, so that they can increase the indoor living area. For example, the user may want to store a set of tools outside the main house. However, the user may have to build another outdoor storage area for shading and protecting the stuff. It may be inconvenient and take a lot of outdoor space.

SUMMARY OF THE PRESENT INVENTION

[0010] The present invention is advantageous in that it provides an outdoor canopy, wherein the side entrance arrangement provides the user easily accessing the canopy.

[0011] Another advantage of the present invention is to provide an outdoor canopy, wherein the entrance panel of the side entrance arrangement is able to be pivotally moved between the closed position and opened position, wherein at the opened position, the entrance panel is upwardly moved to form a predetermined opening angle between the entrance panel and the side wall of the canopy shelter, so as to form a shading area under the entrance panel. Therefore, the shading area provides another add-on function to the outdoor canopy, so as to further utilize the outdoor spaces thereof.

[0012] Another advantage of the present invention is to provide an outdoor canopy, wherein the partition wall assembly is able to separate the canopy area into two or more areas for different purposes. For instance, one partition wall of the partition wall assembly is sidewardly extending between two side walls of the canopy shelter to define a first canopy area for parking the vehicle therein and a shed area as a storage space for storing purposes.

[0013] Another advantage of the present invention is to provide an outdoor canopy, wherein the extendable frame structure enables the canopy frame being able to selectively adjust the size thereof, such as length form the front wall to the rear wall of the outdoor canopy, so as to provide a relatively more universal canopy frame.

[0014] Another object of the present invention is to provide an outdoor canopy for a vehicle which comprises a ventilation arrangement which is capable of providing effective ventilation within the canopy, and is easy to install for convenient outdoor use.

[0015] Another object of the present invention is to provide an outdoor canopy comprising a ventilation arrangement which is capable of selectively providing effective ventilation while ensuring that the users' privacy is not thereby compromised.

[0016] Another object of the present invention is to provide an outdoor canopy which comprises a plurality of adjustable supporting legs for optimally standing on an uneven ground surface. In other words, the present invention is optimal for use in outdoor environment where the ground on which the outdoor canopy stands is usually uneven.

[0017] Another object of the present invention is to provide an outdoor canopy which mainly utilizes detachable connection between a canopy frame and the canopy fabric so as to

minimize the time of assembling and disassembling of the present invention. Since the mechanical components of the outdoor canopy cam be easily attached and detached, the outdoor canopy can therefore be easily transported and carried.

[0018] Another object of the present invention is to provide an outdoor canopy which does not involve complicated or expensive mechanical components so as to minimize the manufacturing of the present invention.

[0019] According to the present invention, the foregoing and other objects and advantages are attained by providing an outdoor canopy, comprising:

[0020] a canopy frame defining a canopy area for the vehicle parking therewithin;

[0021] a canopy shelter, which is made of waterproof fabric, being supported by the canopy frame and defining a ceiling wall, a front wall, a rear wall, and first and second sidewalls to enclose the canopy area therewithin for sheltering the vehicle, wherein the canopy shelter has a front entrance formed at the front wall for the vehicle entering into the canopy area; and

[0022] a side entrance arrangement for a driver accessing the canopy area without having to pass through the front entrance, wherein the side entrance arrangement has at least a side entrance opening provided at the sidewall of the canopy shelter and at least an entrance panel overlapping with the side entrance opening and movably coupling with the canopy frame to adjustably move between a closed position for closing up the side entrance opening and an opened position for accessing the canopy area, so as to define a shading area under the entrance panel at the opened position.

[0023] In accordance with another aspect of the invention, an outdoor canopy of the present invention comprises:

[0024] a canopy frame which comprises a roof frame and a legs frame downwardly extended from the roof frame to form a canopy area within the roof frame and the legs frame, wherein the legs frame comprises a plurality of length-adjustable supporting legs spacedly and downwardly extended from the roof frame to self-adjust a height of the roof frame with respect to an uneven ground surface;

[0025] a canopy shelter, which is made of waterproof fabric, detachably fastening at the canopy frame to define a ceiling wall, a front wall, a rear wall and two sidewalls for enclosing the canopy area therewithin, wherein the canopy shelter has a front entrance formed at the front wall for communicating with the canopy, and

[0026] a ventilation arrangement comprising at least a side window for enhance an air ventilation of the canopy shelter, wherein the side window comprises a window screen formed at one of the sidewalls of the canopy fabric for allowing air circulation within the canopy area and a window blind overlappingly mounted on the respective sidewall in a foldable manner to selectively enclose the window screen, such that window blind is folded to enclose the window screen for preventing dust and rain entering into the canopy area and is folded to expose the window screen for allowing air circulating within the canopy area.

[0027] These and other objectives, features, and advantages of the present invention will become apparent from the following detailed description, the accompanying drawings, and the appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0028] FIG. **1** is a schematic view of a canopy according to a preferred embodiment of the present invention.

[0029] FIG. **2** is a perspective view of the canopy according to the above preferred embodiment of the present invention, illustrating a front side of the canopy.

[0030] FIG. **3** is a perspective view of the skylight on the ceiling of the canopy according to the above preferred embodiment of the present invention.

[0031] FIG. **4** is a side view of the canopy according to the above preferred embodiment of the present invention, illustrating the joints between base frame and panel with a door.

[0032] FIG. **5** is a front view of the canopy according to the above preferred embodiment of the present invention, illustrating the joints on the base frame.

[0033] FIG. **6** is a sectional view of the canopy according to the above preferred embodiment of the present invention, illustrating the joints of the base frame

[0034] FIG. **7** is a perspective view of an outdoor canopy according to a preferred embodiment of the present invention.

[0035] FIG. **8** is an exploded perspective view of the outdoor canopy according to the above preferred embodiment of the present invention.

[0036] FIG. **9** is a schematic diagram of the ventilating skylight of the outdoor canopy according to the above preferred embodiment of the present invention.

[0037] FIG. **10**A and FIG. **10**B are schematic diagrams of the detachable connector of the outdoor canopy according to the above preferred embodiment of the present invention.

[0038] FIG. **11** is a schematic diagram of the detachable fastening arrangements according to the above preferred embodiment of the present invention.

[0039] FIG. **12** is a schematic diagram of a supporting leg according to the above preferred embodiment of the present invention.

[0040] FIG. **13** is a schematic view of a side entrance of the outdoor canopy according to the above preferred embodiment of the present invention.

[0041] FIG. **14** is a schematic view of the side window retention arrangement according to the above preferred embodiment of the present invention.

[0042] FIG. **15** is a first alternative mode of the outdoor canopy according to the above preferred embodiment of the present invention.

[0043] FIG. **16**A and FIG. **16**B are schematic diagrams of the ventilating arrangement according to the first alternative mode of the outdoor canopy.

[0044] FIG. **17** is a second alternative mode of the outdoor canopy according to the above preferred embodiment of the present invention.

[0045] FIG. **18** is a second alternative mode of the outdoor canopy according to the above preferred embodiment of the present invention, illustrating that an alternative mode of the side entrance arrangement.

[0046] FIG. **19** is a third alternative mode of the outdoor canopy according to the above preferred embodiment of the present invention.

[0047] FIG. **20** is a perspective view of an outdoor canopy according to another preferred embodiment of the present invention.

[0048] FIG. **21** is a schematic view of an angle adjustment joint of the outdoor canopy according to the above preferred embodiment of the present invention.

[0049] FIG. **22** is a schematic view of a partition wall assembly of the outdoor canopy according to the above preferred embodiment of the present invention.

[0050] FIG. **23** is a schematic view of an extendable frame structure of the outdoor canopy according to the above preferred embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0051] Referring to FIG. **1** of the drawings, a canopy, such as an outdoor canopy, according to a preferred embodiment of the present invention is illustrated, in which the canopy comprises a first fabric panel **1** and a second fabric panel **1**, a top canopy **2**, a roof frame **3**, a side wall **4**, a horizontal bar **5**, a legs frame **6**, a side fabric panel **7**, and a mounted plate **8**.

[0052] A first fabric panel **1** means the front side fabric panel of the canopy, and a second fabric panel **1** means the back side fabric panel of the canopy.

[0053] A roof frame **3** is provided on top of the legs frame, wherein the roof frame **3** comprises a horizontal bar **305** and a plurality of inclined bars **302** spacedly, inclinedly and downwardly extended from the horizontal bar to connect with the legs frame **6**.

[0054] A legs frame **6** which comprises a plurality of adjustable supporting legs **61** spacedly and upwardly extended from a ground surface to define a canopy area within the supporting legs **61**, wherein a height of each of the supporting legs **61** is optimally adjustable for allowing the legs frame to securely rest on an uneven ground surface.

[0055] Referring to FIG. **2** of the drawings, a roof frame according to a preferred embodiment of the present invention is illustrated, in which the roof frame comprises a three-way connector **301**, a incline bar **302**, a three-way connector **303**, a four-way post connector **304**, a horizontal bar **305**, a four-way a post connector **306**, and a three-way connector **307**. When fabricating the frame, a user is required to put the incline bar **302**, the horizontal bar **305** to the three-way connector or the four-way connector correspondingly. Similarly, a horizontal bar **5** and a base frame **6** are also put into the three-way connector or the four-way connectors correspondingly to form the frame as shown in FIG. **2**.

[0056] A canopy fabric structure comprises a top canopy **2** supported by the roof frame **3** to shade an area thereunder, and a leg fabric supported by the legs frame to surround the canopy area within the supporting legs **61**, wherein the leg fabric has a front fabric panel, a back fabric panel, and two side fabric panels supported by the legs frame for encircling thereof so as to normally conceal the canopy area within the legs frame.

[0057] A ventilation arrangement is provided on the canopy fabric structure for allowing ventilation in the canopy area, wherein the ventilation arrangement comprises at least a ventilating skylight formed on the canopy fabric structure in such a manner that the ventilating skylight is arranged to selectively allow air passing therethrough for effectively ventilating the canopy area via the ventilating skylight **9**.

[0058] A front fabric panel **1**, a back fabric panel **1**, a top canopy **2**, and a long side panel with door **7** can combine together through sewing, zipper, or Velcro to interlink and incorporate with the frame.

[0059] A top canopy **2** comprises the ceiling skylight, which is easy for people to assembling and disassembling comprises a supporting members **901**, a canvas fabric **902**, and a sheer curtain **903** as shown in FIG. **3** for making the indoor area quite airy.

[0060] The opening of the top canopy **2** is sewed by the sheer curtain **903** for airy the indoor area, preventing mosquito form going into the canvas, and increasing the intensity of the canvas. The supporting members **901** are used for adapting the size of the window.

[0061] The mounted plate **8** mounted under the base frame, and there is a gauge hole. There are a screw bolt **10**, and a screw nut **11**, which can pass through three oval position holes **601**, **602**, **603** on the base frame **6** respectively wherein the four base points could be adjusted for different ground levels.

[0062] A side fabric panel **7** according to a preferred embodiment of the present invention is illustrated, in which a side fabric panel **7** comprises a side door **4** and a window **14** which is sewed on the side fabric panel **7**.

[0063] The PVC fabric **12** or a sheer curtain **13** is stitched on the side fabric panel with the window **7**, and the window **14** which could be rolled up is outside the PVC fabricl**2** or a sheer curtain **13**.

[0064] You can fold the fabric to the right and Velcro it, fold the fabric towards the top and Velcro to attach, or roll the fabric to the side.

[0065] The side door **4** which could be rolled up is mounted on the side fabric panel **7** by zipper. In the same way, the door **15** is mounted on the front and back panel **1** by zipper, too.

[0066] To describe the present invention in a more specific manner, referring to FIG. **7** to FIG. **8** of the drawings, an outdoor canopy according to a preferred embodiment of the present invention is illustrated, in which the outdoor canopy comprises a canopy frame **10**, a canopy shelter **20**, and a ventilation arrangement **30**.

[0067] The canopy frame **10** comprises the roof frame **3** and a legs frame **6** downwardly extended from the roof frame **3** to form a canopy area within the roof frame **3** and the legs frame **6**, wherein the legs frame **6** comprises a plurality of length-adjustable supporting legs **61** spacedly and downwardly extended from the roof frame **3** to self-adjust a height of the roof frame **3** with respect to an uneven ground surface.

[0068] The canopy shelter **20**, which is made of waterproof fabric, detachably fastening at the canopy frame **10** to define a ceiling wall **21**, a front wall **22**, a rear wall **23** and two sidewalls **24** for enclosing the canopy area therewithin, wherein the canopy shelter **20** has a front entrance **25** formed at the front wall **22** for communicating with the canopy.

[0069] The ventilation arrangement **30** comprises at least a side window **14** for enhancing an air ventilation of the canopy shelter **20**, wherein the side window **14** comprises a window screen **141** formed at one of the sidewalls **24** of the canopy shelter **20** for allowing air circulation within the canopy area, and a window blind **142** overlappingly mounted on the respective sidewall **24** in a foldable manner to selectively enclose the window screen **141**, such that window blind **142** is folded to enclose the window screen **141** for preventing dust and rain entering into the canopy area and is folded to expose the window screen **141** for allowing air circulating within the canopy area.

[0070] According to the preferred embodiment of the present invention, the roof frame **3** comprises a roof supporting member **301** such as the above-mentioned horizontal bar, a roof reinforcing frame **303**, and a plurality of shelter supporting members **302**, such as the above mentioned inclined bars, downwardly and spacedly extended from the roof supporting member **301** to connect with the roof reinforcing frame **303** to form the canopy area within the roof frame **3** and the legs frame **6**. Accordingly, the roof reinforcing frame **303** comprises a plurality of reinforcing members **3031** each of

which is suspendedly mounted with two adjacent reinforcing members **3031** in an end-to-end manner for forming a roof boundary of the roof frame **3**, wherein legs frame **6** is extended underneath the roof boundary for standing on a ground surface, possibly on an uneven ground surface.

[0071] Referring to **8** and FIG. **10**A of the drawings, the roof frame **3** further comprises a plurality of connectors **304** connecting each reinforcing members **3031** with the corresponding adjacent reinforcing members **3031**, the legs frame **6**, and/or with the corresponding shelter supporting member **302**. More specifically, each of the connectors **304** has a tubular cross section, and has a main connector portion **3041** and a plurality of mounting portions **3042** extended from the main connector portion **3041** for connecting with the corresponding reinforcing members **3031** and/or the shelter supporting member **302**. Accordingly, each of the connectors **304** may be embodied as the above-mentioned three-way connector or the four-way connector, in which an upper portion of each of the self-adjustable supporting legs **61** is arranged to be mounted at the corresponding connector **304** for erecting the roof frame **3** above the legs frame **6**, and standing on an uneven ground.

[0072] The canopy shelter **20** comprises a roof shelter **26** attached on the roof frame **3** for substantially shading the canopy area from the top of the outdoor canopy to define the ceiling wall **21** of the canopy shelter **20**, and a body shelter **27** encirclingly attached around the legs frame **3** to define the front wall **22**, the rear wall **23**, and the two sidewalls **24** as a front panel, a rear panel, and two side panels of the body shelter **27**, wherein the front entrance **25** is formed on the front wall **22** for allowing a desire object, such as a vehicle, passing through the front entrance **25**. As mentioned earlier, both the roof shelter **26** and the body shelter **27** are made of waterproof materials for ensuring substantial protection of the canopy area from adverse weather conditions.

[0073] The ventilation arrangement **30** preferably comprises four side windows **14** formed at the two sidewalls **24** of the canopy shelter **20** for allowing air circulating between the canopy area and an exterior thereof. Accordingly, each of the side windows **14** further contains a window opening **143** formed on a predetermined position of the sidewalls **24** of the canopy shelter **20**, wherein the window screen **141** is mounted at the corresponding window opening **143** for blocking unwanted objects, such as dirt and insects, from entering into the canopy area through the corresponding side window **14**.

[0074] The ventilation arrangement **30** further comprises a plurality of ventilating skylights **31** formed at the ceiling wall **21** of the canopy fabric **20** for allowing air circulating within the canopy area, wherein each of the ventilating skylights **31** has a skylight opening **311** for forming a roof window at the ceiling wall **21**, and comprises a fabric made skylight panel **312** extended from the ceiling wall **21** to foldably cover at the roof window such that when the skylight panel **312** is upwardly lifted to expose the roof window, the skylight panel **312** is adapted for allowing the air ventilating from the canopy area through the roof window and for preventing dust and rain from entering into the canopy area.

[0075] Referring to FIG. **9** of the drawings, according the preferred embodiment of the present invention, the roof shelter **26** comprises a first and a second roof fabric panel **261**, **262** attached on the roof frame **3**, wherein the first roof fabric panel **261** is attached on the roof supporting member **301** and downwardly extended therefrom to partially and overlappedly cover the second roof fabric panel **262** as forming the skylight panel **312**, wherein the second roof fabric panel **262** is detachably attached on the shelter supporting members **302** of the roof frame **3**. Thus, it is worth mentioning that for each of the ventilating skylight **31**, the skylight opening **311** is formed as the opening between the first and the second roof fabric panel **261**, **262** for communicating the canopy area with an exterior thereof.

[0076] Moreover, each of the ventilating skylights **31** further comprises a skylight screen **313** provided at the skylight opening **311** on the roof shelter **26** for normally allowing air passing through the skylight opening **311** while blocking unwanted objects, such as dirt or insects, from entering into the canopy area through the skylight opening **311**. It is worth mentioning that each of the skylight screens **313** is preferably embodied as a mesh having a plurality of elongated fabric elements extended at the corresponding skylight opening **311** in a cross manner for forming a net structure of the skylight screen **313**.

[0077] In order to ensure that the ventilating skylights **31** have sound ventilation effect, each of the ventilating skylights **31** further comprises an elongated retention member **314** flexibly attached on the second roof fabric panel **262** and arranged to detachably attached on the first roof fabric panel **261**, preferably via a Velcro, for preventing the first roof fabric panel **261** from overlapping on the second roof fabric panel **262** so as to prevent the skylight opening **311** from being blocked by the first and the second roof fabric panel **261**, **262**. In other words, the retention member **314** is arranged to ensure adequate exposure of the canopy area to an exterior of the outdoor canopy so as to ensure effective ventilation of the canopy area (i.e. prevent the ventilating skylights **31** from collapsing).

[0078] In order to mount the canopy shelter **20** onto the canopy frame **10**, the outdoor canopy of the present invention further comprises a plurality of detachable fastening arrangements **40** detachably connecting the canopy shelter **20** with the canopy frame **10** so as to detachably mount the canopy shelter **20** onto the canopy frame **10** and thereby facilitate easy assembling and disassembling of the present invention. More specifically, referring to FIG. **11** of the drawings, each of the detachable fastening arrangements **40** comprises a resilient fastening member **41** integrally formed as an endless fastening loop, and a locking member **42** operatively mounted on the resilient fastening member **41** in such a manner that when the fastening member **41** has fastened the canopy shelter **20** to the canopy frame **10**, the locking member **42** is utilized to ensure secure fastening of the resilient fastening member **41**. Thus, the canopy shelter **20** further has a plurality of fastening holes **28** formed on the roof shelter **26** and/or the body shelter **27** wherein the corresponding detachable fastening arrangement **40** is adapted to pass through the fastening hole **28** and to fasten on the canopy frame **10** so as to detachably attach the canopy shelter **20** to the canopy frame **10**.

[0079] In order to further enhance the security of which the roof shelter **26** is fastened onto the canopy frame **10**, referring to FIG. **8** and FIG. **12** of the drawings, the detachable fastening arrangement **40** further comprises a plurality of elongated adjustable fasteners **43**, each having a fastening hook **431** formed at a bottom edge portion of the respective elongated adjustable fasteners **43**, extended from four corner portions of the second roof fabric panel **262** of the roof shelter **26** for adjustably coupling with the corresponding supporting legs

61 of the canopy frame 10 so as to further enhance a security to which the roof shelter 26 is detachably fastened onto the canopy frame 10.

[0080] Referring to FIG. 10A and FIG. 10B of the drawings, the canopy frame 10 of the outdoor canopy further comprises a resilient mounting arrangement 16 provided thereon for detachably mounting the reinforcing members 3031 of the roof reinforcing frame 303 with the connectors 304 (i.e. the three-way connectors or the four-way connectors). The resilient mounting arrangement 16 comprises a plurality of detachable mounting devices 161 provided on the canopy frame 10, wherein each of the detachable mounting devices 161 comprises a plurality of mounting holes 162 formed on the reinforcing members 3031 and the mounting portions 3042 of the connectors 304, a resilient element 163 received in the corresponding reinforcing member 3031 for aligning with the corresponding mounting holes 162, and an actuator 164 mounted at the corresponding mounting hole 162 to operatively connect with the corresponding resilient element 163. It is worth mentioning that each of the resilient elements 163 has a first resilient portion 1631 and a second resilient portions 1632 integrally extended from the first resilient portion 1631 at a predetermined inclination to form a substantially resilient V-shape cross section of the resilient element 163 for normally exerting an outward pushing force towards the sidewall of the respective reinforcing member 3031. The resilient element 163 further has a locker end 1633 transversely extended from the second resilient portion 1632 to pass through the corresponding mounting hole 162 formed on the respective reinforcing member 3031, wherein the actuator 164 is connected with the locker end 1633 at the mounting hole 161, in such a manner that the actuator 164 is normally protruded out of the reinforcing member 3031, and is adapted to be pushed back into the reinforcing member 3031 from an exterior thereof.

[0081] The operation of the resilient mounting arrangement 16 is as follows: the detachable mounting device 161 is first mounted within a reinforcing member 3031 with the actuator 164 protruding from the corresponding mounting hole 161. Suppose that this reinforcing member 3031 is to be detachably connected with one of the mounting portions 3042 of one of the connectors 304. It is essential that a diameter of the mounting portion 3042 is slightly larger than a diameter of that corresponding reinforcing member 3031. When the actuator 164 is pressed into the reinforcing member 3031, a corresponding end portion of the reinforcing member 3031 is adapted to be inserted into the mounting portion 3042 of the connector 304. When the corresponding mounting holes 162 of the connector 304 and the reinforcing member 3031 coincide, the actuator 164 will be pressed outwardly by the resilient element 163 to pass through the two mounting holes 162 and constitute as a blockage for locking up a further longitudinal movement of the reinforcing member 3031. When it is desired that the reinforcing member 3031 to be detached from the connector 304, the user needs only to inwardly press the actuator 164 so as to clear the blockage thereof. Ultimately, the reinforcing member 3031 is free to be detached from the connector 304 by sliding out therefrom.

[0082] Referring to FIG. 12 of the drawings, each of the supporting legs 61 comprises a main leg body 611 and a leg supporting base 612 mounted underneath a bottom portion of the corresponding main leg body 611 for adjusting a height of the supporting leg 61 with respective to a ground surface, especially an uneven ground surface. Specifically, each of the supporting legs 61 has a plurality of adjustment holes 613 spacedly formed on the main leg body 611 and the leg supporting base 612, wherein leg supporting base 612 is mounted to the main leg body 611 at predetermined adjustment holes 613 so as to adjust an overall height of the respective supporting leg 61. As a result, the height of the supporting legs 61 is adjustable for securely standing on an uneven ground surface. According to the preferred embodiment of the present invention, each of the fastening hooks 431 is adapted to couple with the corresponding adjustment hole 613 of the leg frame 6 for further tightening up the roof shelter 26 to the canopy frame 10 in a tension manner.

[0083] Referring to FIG. 7, FIG. 8 and FIG. 13 of the drawings, the outdoor canopy further comprises a side entrance arrangement 50 formed on at least one of the sidewalls 24 of the canopy shelter 20 for a user to pass gain entry to and exit the canopy area through the side entrance arrangement 50. According to the preferred embodiment of the present invention, the side entrance arrangement 50 contains a side entrance opening 51 formed on one of the sidewalls 24 of the canopy shelter 20, and comprise two entrance fabric panels 52 operatively mounted on the corresponding sidewalls 24 of the canopy shelter 20 in such a manner that the side entrance arrangement 50 is adapted to operate between an opened position and a closed position, wherein in the opened position, the entrance fabric panels 52 are folded and securely held in the vicinity of the side entrance opening 51 for exposing the canopy area to an exterior thereof, wherein in the closed position, the entrance fabric panels 52 are released to cover the side entrance opening 51 so as to form the above mentioned side door 4 of the canopy shelter 20. It is worth mentioning that with the help of the side entrance arrangement 50, a user is able to exit the canopy area through the side entrance opening 51. Thus when the user has park his or her vehicle in the canopy area, he or she is able to leave the outdoor canopy directly through the side entrance opening 51 without going to the front entrance 25.

[0084] In other words, the side entrance arrangement 50 is for a driver accessing the canopy area without having to pass through the front entrance 25, wherein the side entrance arrangement 50 contains a first side entrance opening 51 formed on the first sidewall of the canopy shelter 20 for aligning with a vehicle door of the vehicle, and comprises at least a fabric made first side door as one of the entrance fabric panels 52 foldably mounted on the first sidewall 24 to selectively enclose the first side entrance opening 51 such that the side entrance arrangement 50 is adapted to fold between the opened position and the closed position, wherein at the opened position, the first side door is folded to expose the first side entrance opening 51 for the driver accessing the canopy area, and at the closed position, the first side door covers the first side entrance opening 51 to form a side entrance of the canopy shelter.

[0085] Moreover, where the canopy is adapted to shelter two vehicles, the side entrance arrangement 50 further contains a second side entrance opening 51 formed on the second sidewall 24 of the canopy shelter 20 for aligning with another vehicle door of the vehicle, and comprises at least a fabric made second side door as another of the entrance fabric panels 52 foldably mounted on the second sidewall 24 to selectively enclose the second to side entrance opening 51 such that when the second side door 54 is folded to exposed the second side entrance opening 51, the second side entrance

opening **51** forms another side entrance for a passenger accessing the canopy area without having to pass through the front entrance **25**.

[0086] Accordingly, the side entrance arrangement **50** further comprises two fabric retention arrangements **53** provided in the vicinity of the side entrance openings **51** respectively for retaining the respective entrance fabric panels **52** at either the opened position or the closed position. More specifically, each of the fabric retention arrangements **53** comprises a hook fastener **531** and a plurality of loop fasteners **532** attached on a top side edge of the side entrance opening **51**, and the corresponding side edges of each of the entrance fabric panels **52** respectively, wherein when the entrance fabric panels **52** are at the closed position, the loop fastener **532** formed on an outer top side edge of each of the entrance fabric panels **52** is attached on the hook fastener **531** while the entrance fabric panels **52** are unfolded to block the side entrance opening **51** so as to close it. When the entrance fabric panels **52** are at the opened position, the entrance fabric panels **52** are sidewardly folded in such a manner that the loop fasteners **532** formed on an inner top side edge of each of the entrance fabric panels **52** is attached on the hook fastener **531** so as to retain the entrance fabric panels **52** at the opened position for exposing the canopy area to an exterior thereof. Thus, the user of the present invention is able to exit the canopy area through the opened side entrance opening **51**.

[0087] In order to further conceal the canopy area when the entrance fabric panels **52** are at the closed position, the fabric retention arrangement **53** further comprises two side entrance zippers **534** having a first and a second zipper elements **5341**, **5342** attached on two inner side edges of the corresponding entrance fabric panels **52** respectively in such a manner that when the entrance fabric panels **52** are at the closed position, the first and the second zipper elements **5341**, **5342** are adapted to be detachably zipped together for closing the side entrance opening **51**.

[0088] In other words, each of the side entrance zippers **534** is transversely formed at each of the first and second side doors to define two door panels at each of the first and second side doors **54** as the entrance fabric panels **52** respectively, wherein each of the side entrance zippers **534** has the first and second zipper elements **5341**, **5342** which are attached to two inner side edges of the two door panels respectively and are detachably fastened with each other to enclose the respective first and second side entrance openings **51**.

[0089] Referring to FIG. **14** of the drawings, the ventilation arrangement **30** further comprises a side window retention arrangement **32** formed at the side window **14** for retaining the window blind **142** as folded to expose the window screen **141** and the canopy area to an exterior thereof. Thus, the side window retention arrangement **32** comprises a plurality of hook fasteners **321** formed at least one (preferably all) of the four inner and outer side edges of the window screen **141**, and a plurality of loop fasteners **322** formed the corresponding inner side edges of the window blind **142** and the outer side edges of the window blind **142**, wherein the hook fasteners **321** are arranged to normally detachably attached with the corresponding loop fasteners **322** so as to close the side window **14**, and in such a manner that when the window blind **142** is folded to expose the window screen **141**, the window blind **142** is arranged to be sidewardly or upwardly flipped along the hook fastener **321** formed at the top side edge of the window screen **141** so as to open the side window **14**.

[0090] Referring to FIG. **15** of the drawings, a first alternative mode of the outdoor canopy according to the preferred embodiment of the present invention is illustrated. The first alternative mode is similar to the preferred embodiment, except the ventilation arrangement **30'** and the side entrance arrangement **50'**. According to the first alternative mode, the window blind **142'** of each of the side windows **14'** comprises two blind members **1421'**, **1422'**, wherein the loop fasteners **322'** are attached on the side edges of the blind members **1421'**, **1422'** respectively in such a manner that when the window blind **142'** is folded to expose the window screen **141'**, each of the blind members **1421'**, **1422'** is arranged to be sidewardly rolled along the hook fastener **321'** formed at the top side edge of the window screen **141'**. Thus, the window tightening members **323'** are adapted for tightening up the blind members **1421'** **1422'** when they have been sidewardly rolled to expose the window screen **141'**. A zipper may be provided between the inner side edges of each of the blind members **1421'**, **1422'** so that when the window blind **142'** is closed to cover the window screen **141'**, the zipper may connect the two blind members **1421'**, **1422'** for completely covering the window screen **141'**.

[0091] Moreover, referring to FIG. **16**A and FIG. **16**B of the drawings, each of the retention member **314'** of the of the ventilating skylights **31'** is embodied as a retention wire which is bent to form a semi-circular cross section, wherein the retention member **314'** is provided onto the second roof fabric panel **262'** at the inner side edge of the corresponding skylight opening **311'** for selectively opening the corresponding ventilating skylight **31'**. More specifically, each of the retention members **314'** has two pivot end portions **3141'** and a central curved portion extending between the two pivot end portions **3141'**, wherein the two pivot end portions **3141'** are pivotally connected with the shelter supporting member **302'** in such a manner that when the retention member **314'** is driven to rotate, the central curved portion thereof is arranged to move the first roof fabric panel **261'** away from the second roof fabric panel **262'** so as to open the corresponding ventilating skylight **31'** for ventilation.

[0092] Each of the ventilating skylights **31'** further comprises a skylight controller **315'** attached to the retention member **314'** for controlling an operation thereof so as to selectively open and close the corresponding ventilating skylight **31'**. More specifically, the skylight controller **315'** comprises a pivot supporter **3152'** mounted at the roof shelter **26**, and an actuating wire **3153'**, wherein the actuating wire **3153'** has a pivot guiding portion **3154'** slidably engage with the pivot supporter **3152'**, a skylight opening portion **3155'** downwardly extended from an inner end of the pivot guiding portion **3152'** within the canopy area, and a skylight closing portion **3156'** extended from an outer end of the pivot guiding portion **3154'** to an outside of the canopy shelter **20'**, in such a manner that when the skylight opening portion **3155'** is pulled by a user of the present invention, the retention member **314'** is outwardly and pivotally moved to drive the first roof fabric panel **261'** moving away from the second roof fabric panel **262'** so as to open the ventilating skylight **31'**, and when the skylight closing portion **3156'** is pulled by the user from within the canopy area, the retention member **314'** is pivotally and inwardly move to allow overlapping of the second roof fabric panel **262'** by the first roof fabric panel **261'** so as to close the ventilating skylight **31'**. Thus, a user is able to conveniently open and close the ventilating skylight **31'**

according to the circumstances in which the outdoor canopy of the present invention is utilized.

[0093] Referring to FIG. **17** to FIG. **18** of the drawings, a second alternative mode of the outdoor canopy according to the preferred embodiment of the present invention is illustrated. The second alternative mode is similar to the preferred embodiment except the ventilating arrangement **30"** and the side entrance arrangement **50"**. According to the second alternative mode, each of the side window has a plurality of zippers **144"** spacedly provided on the window blind **142"** to form a main blind portion **1421'** of the window blind **142"**, wherein when the zippers **144"** are both opened, the main blind portion **1421"** of the window blind **142"** is arranged to be rolled up for exposing the window screen **141"** to an exterior of the canopy area. Conversely, the zippers **144"** are closed, the main blind portion **1421"** is allowed to be released for substantially shading the window screen **141"** so as to close side window **14"**.

[0094] Referring to FIG. **18** of the drawings, the side entrance arrangement **50"** contains an entrance opening **51"**, an entrance fabric panels **52"**, and a fabric retention arrangement **53"**. The fabric retention arrangement **53"** comprises a plurality of side entrance zipper **533"** formed on two side edge portions of the entrance fabric panels **52"** to form a main fabric portion **521"** of the entrance fabric panels **52"**, wherein when the side entrance zippers **533"** are both opened, the main fabric portion **521"** is arranged to be rolled up for exposing the side entrance **51"** to an exterior of the canopy area. Conversely, when the side entrance zippers **533"** are closed, the main fabric portion **521"** is allowed to be released for substantially shading the side entrance **51"** so as to block access to the canopy area via the side entrance **51"**.

[0095] It is worth mentioning that the fabric retention arrangement **53"** further comprises a plurality of string fasteners **534"** fastening the entrance fabric panels **52"** when the main fabric portion **521"** is rolled up for exposing canopy area. Thus, the main fabric portion **521"** is accordingly retained at the upper portion of the side entrance **51"**.

[0096] Referring to FIG. **19**, a third alternative mode of the outdoor canopy according to the preferred embodiment of the present invention is illustrated. The third alternative mode is similar to the preferred embodiment except the side entrance arrangement **50**A. According to the third alternative mode, the side entrance arrangement **50**A is also formed on at least one of the sidewalls **24**A of the canopy shelter **20**A for a user to pass gain entry to and exit the canopy area through the side entrance arrangement **50**A. The side entrance arrangement **50**A contains a side entrance opening **51**A formed on one of the sidewalls **24**A of the canopy shelter **20**A, and comprise two entrance fabric panels **52**A operatively mounted on the corresponding sidewalls **24**A of the canopy shelter **20**A in such a manner that the side entrance arrangement **50**A is adapted to operate between an opened position and a closed position, wherein in the opened position, the entrance fabric panels **52**A are rolled and securely held in the vicinity of the side entrance opening **51**A for exposing the canopy area to an exterior thereof, wherein in the closed position, the entrance fabric panels **52**A are released to cover the side entrance opening **51**A so as to form the above mentioned side door **4** of the canopy shelter **20**A.

[0097] Moreover, the side entrance arrangement **50**A further comprises two fabric retention arrangements **53**A provided in the vicinity of the side entrance openings **51** respectively for retaining the respective entrance fabric panels **52**A at either the opened position or the closed position. More specifically, each of the fabric retention arrangements **53**A comprises a hook fastener **531**A and a plurality of loop fasteners **532**A attached on a top side edge of the side entrance opening **51**A, and the corresponding side edges of each of the entrance fabric panels **52**A respectively, wherein when the entrance fabric panels **52**A are at the closed position, the loop fastener **532**A formed on an outer top side edge of each of the entrance fabric panels **52**A is attached on the hook fastener **531**A while the entrance fabric panels **52**A are unfolded to block the side entrance opening **51**A so as to close it. When the entrance fabric panels **52**A are at the opened position, the entrance fabric panels **52**A are sidewardly rolled in such a manner that the loop fasteners **532**A formed on an inner top side edge of each of the entrance fabric panels **52**A is attached on the hook fastener **531**A so as to retain the entrance fabric panels **52**A at the opened position for exposing the canopy area to an exterior thereof. Thus, the user of the present invention is able to exit the canopy area through the opened side entrance opening **51**A.

[0098] In order to further conceal the canopy area when the entrance fabric panels **52**A are at the closed position, the fabric retention arrangement **53**A still comprises the side entrance zippers **534** having a first and a second zipper elements **5341**, **5342** attached on two inner side edges of the corresponding entrance fabric panels **52**A respectively in such a manner that when the entrance fabric panels **52**A are at the closed position, the first and the second zipper elements **5341**, **5342** are adapted to be detachably zipped together for closing the side entrance opening **51**A.

[0099] The fabric retention arrangement **53**A can further comprises a plurality of string fasteners **534**A fastening the entrance fabric panels **52**A" when it is rolled up for exposing canopy area.

[0100] FIGS. **20** to **23** illustrates a modification of the outdoor canopy according to another preferred embodiment of the present invention, wherein the side entrance arrangement **50**B is modified to have an additional function of the canopy shelter **20**. According to the modification, the side entrance arrangement **50**B has at least a side entrance opening **51**B provided at the sidewall **24** of the canopy shelter **20** for a user to pass gain entry to and exit the canopy area through the side entrance opening **51**B. The side entrance arrangement **50**B further comprises at least a side door **4**B overlapping with the side entrance opening **51**B and movably coupling with the canopy frame **10** to adjustably move between a closed position for closing up the side entrance opening **51**B and an opened position for accessing the canopy area.

[0101] Accordingly, the canopy frame **10** comprises a shelter supporting frame for supporting the canopy shelter **20** thereat, wherein the shelter supporting frame comprises the roof frame **3** and the legs frame **6** downwardly extended from the roof frame **3** to form the canopy area within the roof frame **3** and the legs frame **6**, wherein the length-adjustable supporting legs **61** are spacedly and downwardly extended from the roof frame **3** to self-adjust a height of the roof frame **3** with respect to an uneven ground surface.

[0102] As shown in FIG. **20**, the side door **4**B has a top edge extended from the canopy shelter **20** to fold between the closed and opened positions. The side door **4**B is pivotally and upwardly folded from the sidewall **24** of the canopy shelter **20** to open up the side entrance opening **51**B, wherein the side door **4**B forms an awning of the canopy shelter **20** when the side door **4**B is folded at the opened position.

Therefore, the side door **4**B provides an additional shading area when the side door **4**B is folded at the opened position.

[0103] The side door **4**B is pivotally and downwardly folded at the sidewall **24** of the canopy shelter **20** to cover at the side entrance opening **51**B so as to enclose the canopy area of the canopy shelter **20** at the sidewall **24** thereof when the side door **4**B is folded at the closed position. Accordingly, the side door **4**B is made of waterproof fabric, wherein the top edge of the side door **4**B can be detachably coupled with the canopy shelter **20** via a door fastener, such as Velcro or zipper, at the top edge of the side entrance opening **51**B, or can be integrally extended from the canopy shelter **20** to form a one piece fabric structure.

[0104] Accordingly, the side entrance arrangement **50**B further comprises a first fastener **541**B provided at a surrounding edge of the side entrance opening **51**B respectively, and a second fastener **542** provided at a peripheral edge of the side door **4**B to detachably fasten with the first fastener **541**B so as to selectively enclose the side entrance opening **51**B by the side door **4**B. The first and second fasteners **541**B, **542**B can be Velcro or zippers to seal the side door **4**B at the side entrance opening **51**B.

[0105] Therefore, the user is able to exit the canopy area through the side entrance opening **51**B. Thus, when the user has park his or her vehicle in the canopy area, he or she is able to leave the outdoor canopy directly through the side entrance opening **51**B without going to the front entrance **25**. The side door **4**B is able to move to the opened position with the predetermined opening angle to form the shading area thereunder, so that the outdoor canopy also provides an add-on function thereof for the user further utilizing the outdoor area of his/her property. Thereby, the side entrance arrangement **50**B is arranged for a driver accessing the canopy area without having to pass through the front entrance **25** (or an opposed rear entrance of the canopy shelter **20**).

[0106] In order to support and retain the side door **4**B, the canopy frame **10** further comprises a door frame **52**B which is pivotally extended from the shelter supporting frame and is coupled with the side door **4**B to pivotally fold the side door **4**B between the closed position and the opened position. The door frame **52**B comprises two pivot arms **521**B pivotally coupling with the shelter supporting frame at a position that the side door **4**B is supported by the pivot arms **521**B such that when the pivot arms **521**B are pivotally and upwardly folded, the side door **4**B is correspondingly folded upward to open up the side entrance opening **51**B. Accordingly, the width of the side door **4**B matches with a distance between the two pivot arms **521**B such that the pivot arms **521**B are aligned and coupled with two side edges of the side door **4**B.

[0107] Each of the pivot arms **521**B can be pivotally coupled with the roof frame **3** or the legs frame **6** of the shelter supporting frame. Preferably, the pivot arms **521**B are pivotally coupled with two supporting legs **61** of the legs frame **6** via two adjustable pivot joints **53**B respectively, wherein the two supporting legs **61** are located at two sides of the side entrance opening **51**B.

[0108] As shown in FIG. **21**, each of the adjustable pivot joints **53**B comprises an arc-shaped pivot member **531**B, having a plurality of angle adjustment holes **532**B, pivotally coupling with the respective supporting leg **61** of the shelter supporting frame at a pivot point and a detachable fastener **533**B detachably and selectively coupling one of the angle adjustment holes **532**B of the pivot member **531**B with the supporting leg **61** of the shelter supporting frame to selectively adjust a pivot angle of the pivot arm **521**B with respect to the supporting leg **61** of the shelter supporting frame.

[0109] Each of the supporting legs **61** has a pivot slot and a retention slot adjacent to the pivot slot. The pivot member **531**B is pivotally coupled with the supporting leg **61** through the pivot slot to define the pivot point thereat. When the pivot arm **521**B is pivotally moved with respect to the supporting leg **61**, the retention slot of the supporting leg **61** is coaxially aligned with one of the angle adjustment holes **532**B. Once the pivot angle of the pivot arm **521**B is set, the detachable fastener **533**B is slidably inserted into the corresponding angle adjustment hole **532**B through the retention slot so as to lock up the pivot arm **521**B at the pivot angle.

[0110] It is worth mentioning that the side entrance opening **51**B can be formed at the middle portion of the respective sidewall **24** of the canopy shelter **20**, as shown in FIG. **20**, wherein the side door **4**B forms the middle portion of the sidewall **24**. It is appreciated that the side entrance opening **51**B can be formed at the side portion of the respective sidewall **24** of the canopy shelter **20** either close to the front wall **22** or the rear wall **23**, such that the side door **4**B forms the side portion of the sidewall **24**. In addition, the side entrance opening **51**B can be formed between the front wall **22** and the rear wall **23** of the canopy shelter **20** to maximize the area of the side entrance opening **51**B, wherein the side door **4**B forms the entire sidewall **24** of the canopy shelter **20**. In other words, the sidewall **24** forms as the side door **4**B being adapted to folded between the closed position and the opened position.

[0111] As shown in FIG. **22**, the canopy shelter **20** further comprises a partition wall assembly **70**B for partitioning the canopy area into two or more multifunctional spaces such as a garage area and a storage area. The partition wall assembly **70**B comprises a partition wall **71**B detachably coupling between two sidewalls **24** to partition the canopy area into the garage area between the front wall **22** and the partition wall **70**B, and the storage area between the partition wall **70**B and the rear wall **23**, and a storage door **72**B for accessing the storage area in an enclosable manner. For instance, the partition wall assembly **70**B may separate the canopy into two spaces; one is for the vehicle, such as car, boat, or the likes, parking thereat, while the other one is able to be used as a shed area for storing or any other purposes.

[0112] The partition wall assembly **70**B further comprises a plurality of first partition wall fasteners **73**B spacedly provided at each of the sidewalls **24** and a plurality of second partition wall fasteners **74**B provided at two side edges of the partition wall **71**B to detachably and selectively fasten with the first partition wall fasteners **73**B respectively so as to selectively adjust a size of the storage area of the canopy shelter **20**. Accordingly, the first and second partition wall fasteners **73**B, **74**B can be Velcro or zippers, or the like to retain the partition wall **71**B between the sidewalls **24**. In other words, the size of the storage area can be enlarged by moving the partition wall **71**B close to the front wall **22** while the size of the garage area will be correspondingly reduced. Likewise, the size of the garage area can be enlarged by moving the partition wall **71**B close to the rear wall **23** while the size of the storage area will be correspondingly reduced. It is appreciated that the partition wall **71**B can be detachably coupled with two supporting legs **61** at the sidewalls **24** respectively to retain the partition wall **71**B in position.

[0113] The storage door **72**B can be formed at one of the sidewalls **24**, the rear wall **23**, or the partition wall **71**B to

access the storage area. Preferably, the storage door **72**B is formed at the partition wall **71**B as shown in FIG. **22**. Accordingly, the storage door **72**B is adapted to open or close at the partition wall **71**B by means of reclosable fastener such as Velcro or zipper.

[0114] As shown in FIG. **23** of the drawings, the canopy frame **10** may further comprises an extendable frame structure **80**B for forming a relatively more universal canopy frame **10** of the outdoor canopy to selectively adjust a length of the canopy frame **10**. Accordingly, the extendable frame structure **80**B is incorporated with the roof frame **3** to extend the distance between the front and rear walls **22**, **23** of the canopy shelter **20**.

[0115] In particular, the extendable frame structure **80**B is incorporated with the roof supporting member **301** and the reinforcing members **3031** of the roof reinforcing frame **303** to extend the length thereof. FIG. **23** illustrates the extendable frame structure **80**B is incorporated with the reinforcing members **3031**, wherein the extendable frame structure **80**B has a plurality of first length adjustment slots **81**B spacedly from at an end portion of one of the reinforcing members **3031**, a second length adjustment slot **82**B formed an end portion of another reinforcing member **3031**, and a member locker **83**B arranged in such a manner that when the two end portions of the reinforcing members **3031** are slidably engaged with each other to align one of the first length adjustment slots **81**B with the second length adjustment slot **82**B, the member locker **83**B is releasably engaged through the first and second length adjustment slots **81**B, **82**B to couple the two reinforcing members **3031** with each other so as to lock up the overall length of the two reinforcing members **3031**. Accordingly, the end portion of one of the reinforcing members **3031** is coaxially and slidably inserted into the end portion of another reinforcing member **3031** to align the second length adjustment slot **82**B with one of the first length adjustment slots **81**B. The member locker **83**B can be a hand screw to lock up the reinforcing members **3031** in a tool-less manner. It is appreciated that the tube structure of the canopy frame **10** can be connected end-to-end via the extendable frame structure **80**B. Therefore, when the user wants to partition the canopy area into multifunctional spaces, the extendable frame structure **80**B can extend the length of the canopy area in order to provide enough space to be partitioned.

[0116] It is worth mentioning that the storage area can be formed by the partition wall assembly **70**B that the partition wall **71**B is formed between the sidewalls **24** of the canopy shelter **20**. Alternatively, the storage area can be formed by the extendable frame structure **80**B that an additional partition frame is added to the canopy frame **10** via the extendable frame **80**, wherein the storage area is formed within the partition frame without reducing the size of the canopy area.

[0117] One skilled in the art will understand that the embodiment of the present invention as shown in the drawings and described above is exemplary only and not intended to be limiting.

[0118] It will thus be seen that the objects of the present invention have been fully and effectively accomplished. It embodiments have been shown and described for the purposes of illustrating the functional and structural principles of the present invention and is subject to change without departure from such principles. Therefore, this invention includes all modifications encompassed within the spirit and scope of the following claims.

What is claimed is:

1. An outdoor canopy for a vehicle, comprising:

a canopy frame which comprises a shelter supporting frame, wherein said shelter supporting frame comprises a roof frame and a legs frame downwardly extended from said roof frame to form a canopy area within said roof frame and said legs frame for said vehicle parking within said canopy area, wherein said roof frame comprises a plurality of tubular supporting members and a plurality of connectors detachably connecting said supporting members end-to-end to form a roof supporting frame, a roof boundary frame for said leg frame downwardly extending therefrom, and a shelter supporting frame downward and inclinedly extended from said roof supporting frame to said roof boundary frame;

a plurality of detachable mounting devices provided on said canopy frame to releasably lock up said supporting members with said connectors respectively;

a canopy shelter, which is made of waterproof fabric, being supported by said shelter supporting frame of said canopy frame and defining a ceiling wall, a front wall, a rear wall, and first and second sidewalls to enclose said canopy area therewithin for sheltering said vehicle, wherein said canopy shelter has a front entrance formed at said front wall for said vehicle entering into said canopy area; and

a side entrance arrangement for a driver accessing said canopy area without having to pass through said front entrance when said vehicle is parked within said canopy area.

2. The outdoor canopy, as recited in claim **1**, wherein said canopy frame further comprises a door frame which is pivotally extended from said shelter supporting frame and is coupled with said side entrance arrangement to adjustably move said side entrance arrangement between a closed position and an opened position for accessing said canopy area.

3. The outdoor canopy, as recited in claim **2**, wherein said side entrance arrangement has at least a side entrance opening provided at said sidewall of said canopy shelter and at least a side door overlapping with said side entrance opening and movably coupling with said door frame to adjustably move between said closed position for closing up said side entrance opening and said opened position for accessing said canopy area, wherein said side door has a top edge extended from said canopy shelter such that said side door is pivotally and upwardly folded from said sidewall of said canopy shelter to open up said side entrance opening and to form an awning of said canopy shelter

4. The outdoor canopy, as recited in claim **3**, wherein said door frame comprises two pivot arms pivotally coupling with said shelter supporting frame at a position that said side door is supported by said pivot arms such that when said pivot arms are pivotally and upwardly folded, said side door is correspondingly folded upward to open up said side entrance opening.

5. The outdoor canopy, as recited in claim **4**, wherein each of said pivot arms is pivotally coupled with said shelter supporting frame via an adjustable pivot joint which comprises an arc-shaped pivot member, having a plurality of angle adjustment holes, pivotally coupling with said shelter supporting frame at a pivot point and a detachable fastener detachably and selectively coupling one of said angle adjustment holes of said pivot member with said shelter supporting frame to selectively adjust a pivot angle of said pivot arm with respect to said shelter supporting frame.

6. The outdoor canopy, as recited in claim **1**, further comprising means for selectively adjusting a length of said canopy frame.

7. The outdoor canopy, as recited in claim **5**, further comprising means for selectively adjusting a length of said canopy frame.

8. The outdoor canopy, as recited in claim **1**, wherein each of said detachable mounting devices contains a plurality of mounting holes formed on each of said supporting members and said connectors, and comprises a resilient element having at least a locking end arranged when said supporting member is connected to said connector to align said mounting hole at said supporting member with said mounting hole at said connector, said resilient element is disposed in said supporting member at a position that said locking end of said resilient element passes through said mounting holes of said supporting member and said connector to lock up said supporting member with said connector.

9. The outdoor canopy, as recited in claim **7**, wherein each of said detachable mounting devices contains a plurality of mounting holes formed on each of said supporting members and said connectors, and comprises a resilient element having at least a locking end arranged when said supporting member is connected to said connector to align said mounting hole at said supporting member with said mounting hole at said connector, said resilient element is disposed in said supporting member at a position that said locking end of said resilient element passes through said mounting holes of said supporting member and said connector to lock up said supporting member with said connector.

10. The outdoor canopy, as recited in claim **8**, wherein said resilient element has a V-shape configuration to define said locking end at one of free ends of said resilient element.

11. The outdoor canopy, as recited in claim **8**, wherein said resilient element has a V-shape configuration to define said locking end at one of free ends of said resilient element.

12. The outdoor canopy, as recited in claim **10**, wherein each of said detachable mounting devices further comprises an actuator provided at said locker end of each of said resilient element and protruded out of said respective supporting member through said respective mounting hole for releasing said supporting member from said connector when said actuator is pressed inwardly.

13. The outdoor canopy, as recited in claim **11**, wherein each of said detachable mounting devices further comprises an actuator provided at said locker end of each of said resilient element and protruded out of said respective supporting member through said respective mounting hole for releasing said supporting member from said connector when said actuator is pressed inwardly.

14. The outdoor canopy, as recited in claim **1**, further comprising a plurality of detachable fastening arrangements provided at said canopy shelter to detachably attach said canopy shelter to said canopy frame in a tension manner.

15. The outdoor canopy, as recited in claim **13**, further comprising a plurality of detachable fastening arrangements provided at said canopy shelter to detachably attach said canopy shelter to said canopy frame in a tension manner.

16. The outdoor canopy, as recited in claim **14**, wherein each of said detachable fastening arrangement contains a fastening hole formed on said ceiling wall and comprises a resilient fastening member passing through said fastening hole to form a fastening loop to tighten at said ceiling wall so as to detachably attach said canopy shelter to said canopy frame in a tension manner.

17. The outdoor canopy, as recited in claim **15**, wherein each of said detachable fastening arrangement contains a fastening hole formed on said ceiling wall and comprises a resilient fastening member passing through said fastening hole to form a fastening loop to tighten at said ceiling wall so as to detachably attach said canopy shelter to said canopy frame in a tension manner.

18. The outdoor canopy, as recited in claim **1**, wherein said legs frame comprises a plurality of length-adjustable supporting legs spacedly and downwardly extended from said roof frame to self-adjust a height of said roof frame with respect to an uneven ground surface.

19. The outdoor canopy, as recited in claim **17**, wherein said legs frame comprises a plurality of length-adjustable supporting legs spacedly and downwardly extended from said roof frame to self-adjust a height of said roof frame with respect to an uneven ground surface.

20. The outdoor canopy, as recited in claim **18**, wherein said legs frame further comprises a plurality of adjustable fasteners fastening to said supporting legs, wherein each of said supporting legs has a plurality of adjustment holes spacedly formed thereon, wherein each of said adjustable fasteners, having a hooking end, extended from said roof shelter to detachably fasten said roof shelter on said roof frame at a position that said hooking end of each of said adjustable fasteners is selectively engaged with one of said adjustment holes at said respective supporting leg so as to retain said roof shelter on said roof frame in a tension manner.

21. The outdoor canopy, as recited in claim **19**, wherein said legs frame further comprises a plurality of adjustable fasteners fastening to said supporting legs, wherein each of said supporting legs has a plurality of adjustment holes spacedly formed thereon, wherein each of said adjustable fasteners, having a hooking end, extended from said roof shelter to detachably fasten said roof shelter on said roof frame at a position that said hooking end of each of said adjustable fasteners is selectively engaged with one of said adjustment holes at said respective supporting leg so as to retain said roof shelter on said roof frame in a tension manner.

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