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(19) **United States**(12) **Patent Application Publication**
Lee(10) **Pub. No.: US 2015/0308147 A1**(43) **Pub. Date: Oct. 29, 2015**(54) **BUNGALOW CAPABLE OF BEING EASILY
INSTALLED AND DISASSEMBLED****Publication Classification**(71) Applicant: **Dong-Hak LEE**, Choelwon-Gun
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E04H 15/60 (2006.01)(72) Inventor: **Dong-Hak Lee**, Gangwon-do (KR)(52) **U.S. Cl.**
CPC **E04H 15/50** (2013.01); **E04H 15/60**
(2013.01)(21) Appl. No.: **14/646,819**(22) PCT Filed: **Apr. 18, 2013**(57) **ABSTRACT**(86) PCT No.: **PCT/KR2013/003261**

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The present invention relates to a bungalow, particularly, a large-sized bungalow which is capable of being easily installed and disassembled, has no gaps between each component of the bungalow when assembled, is firmly fixed so as to prevent movement after installation, and is not damaged or does not collapse due to external impact or heavy rain or snow.

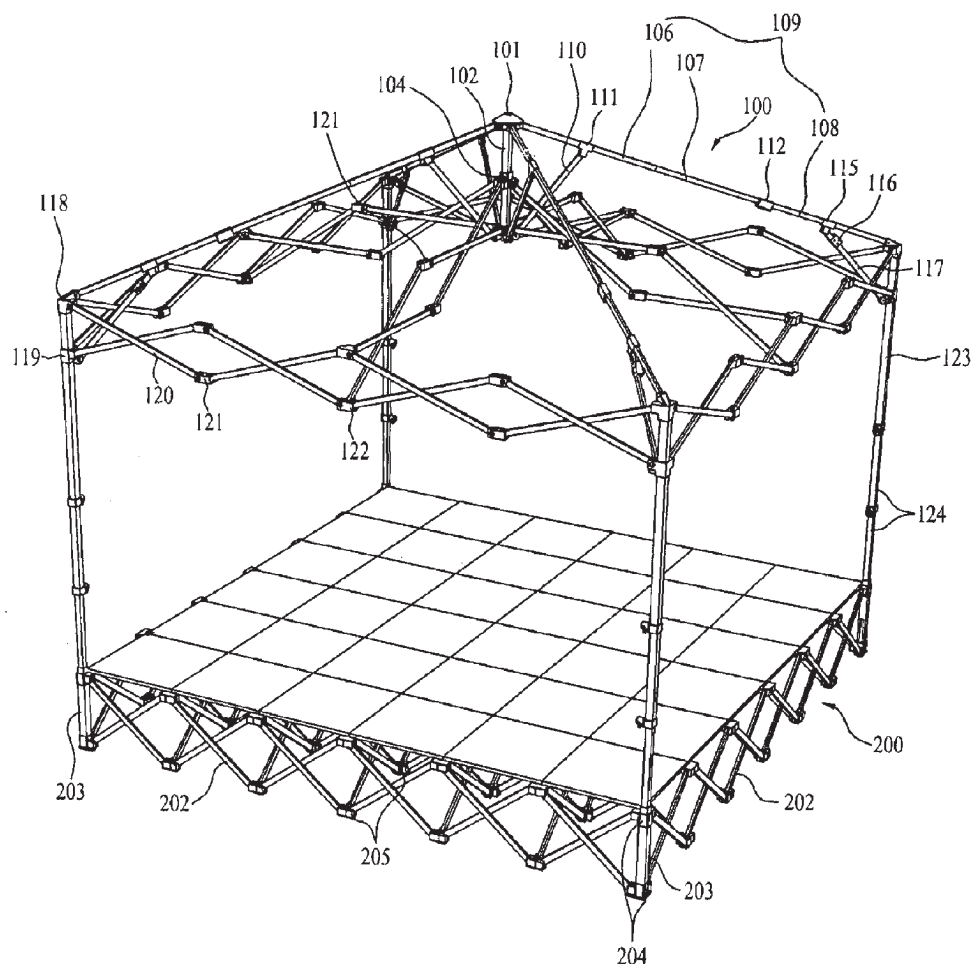


Fig.1

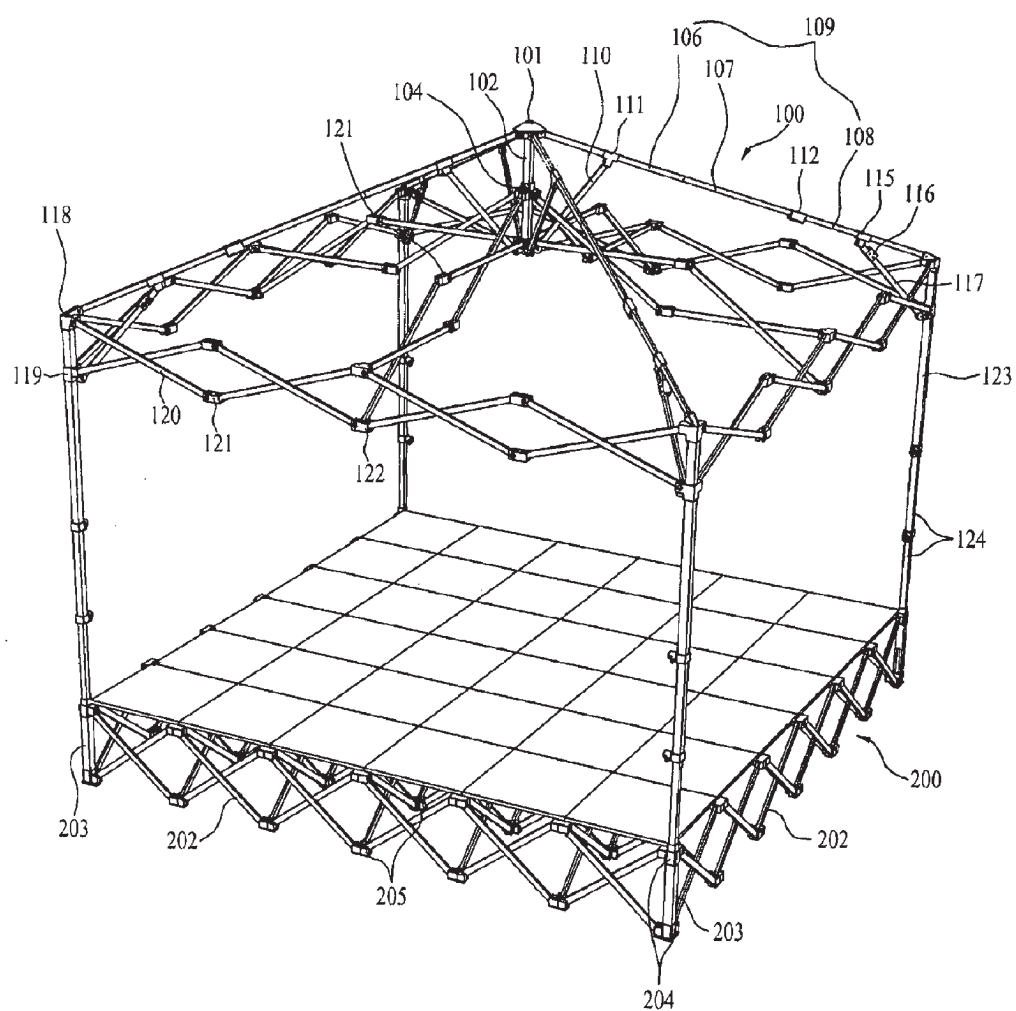


Fig. 2

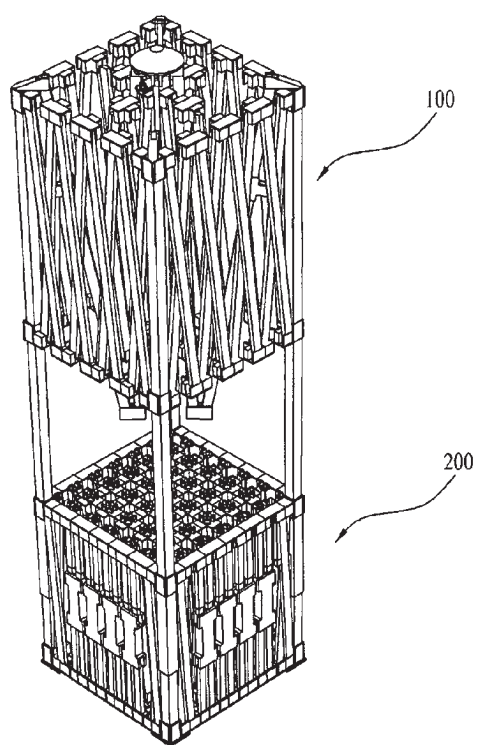


Fig.3

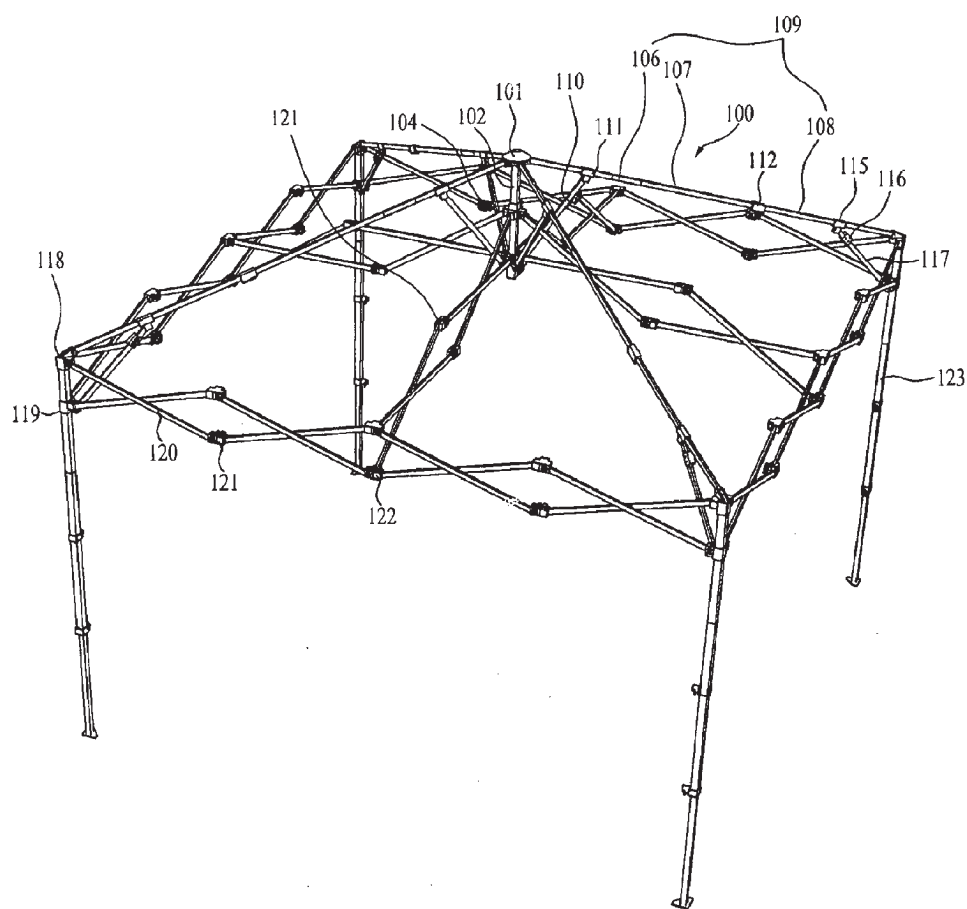


Fig.4

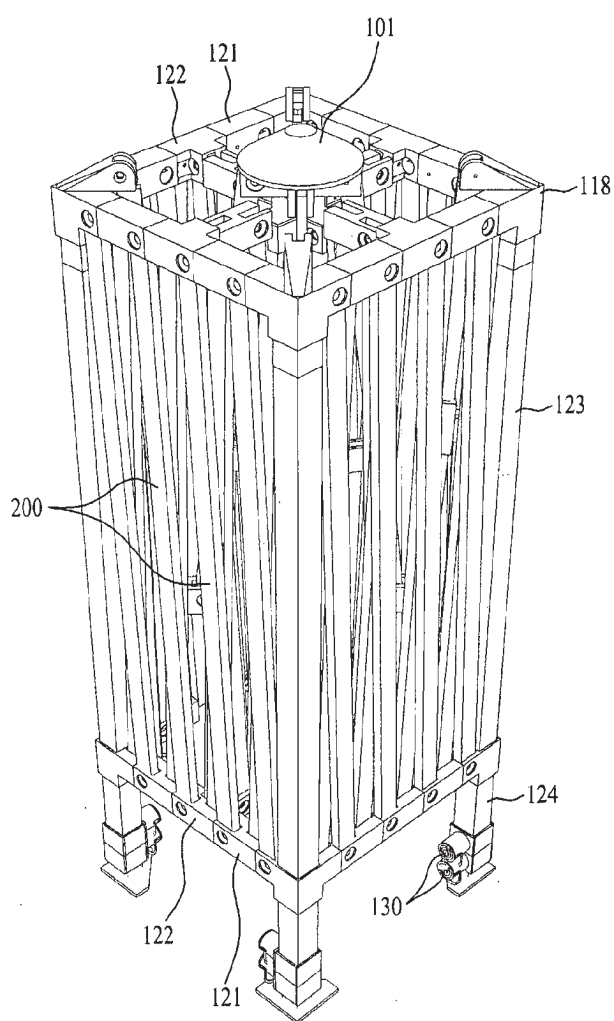


Fig.5

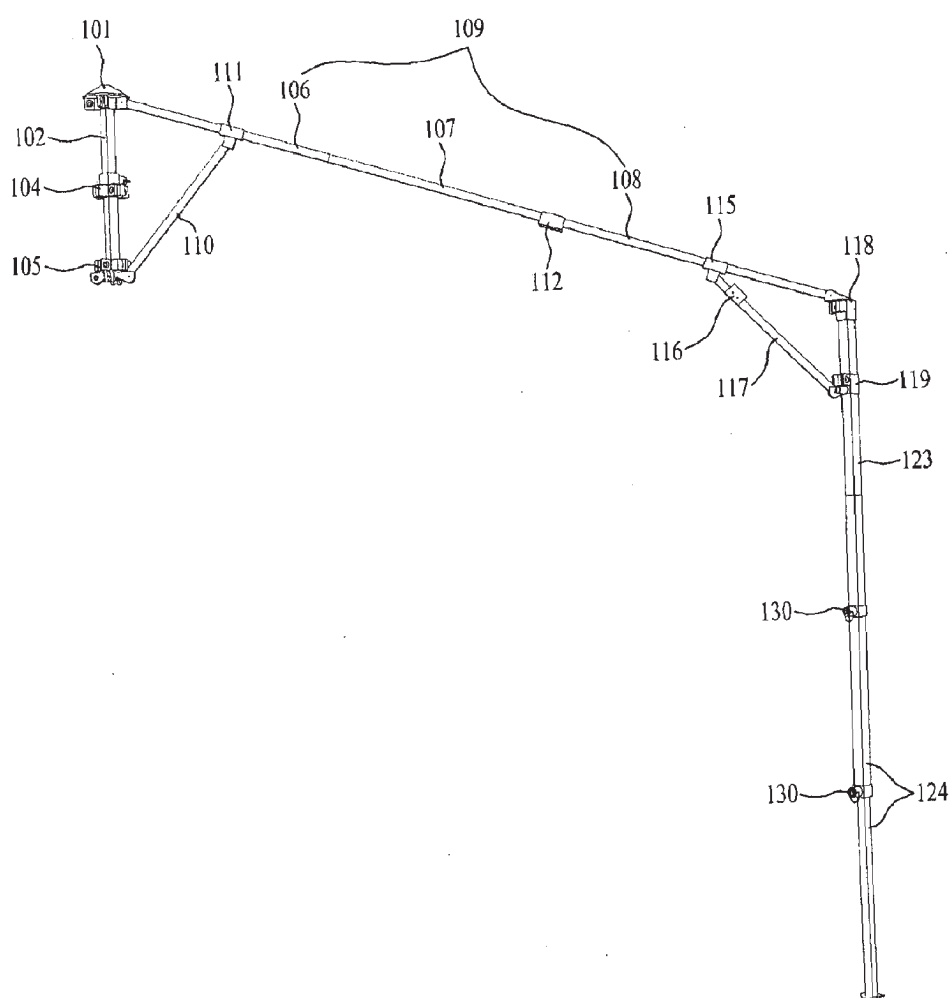


Fig.6

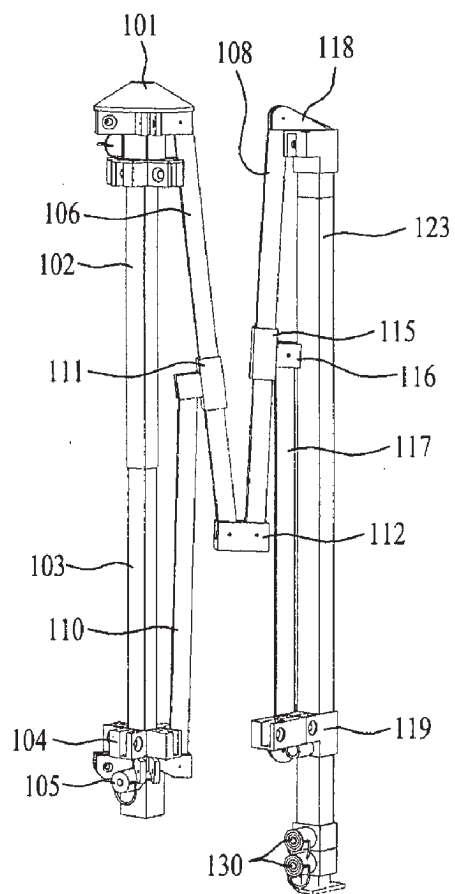


Fig.7

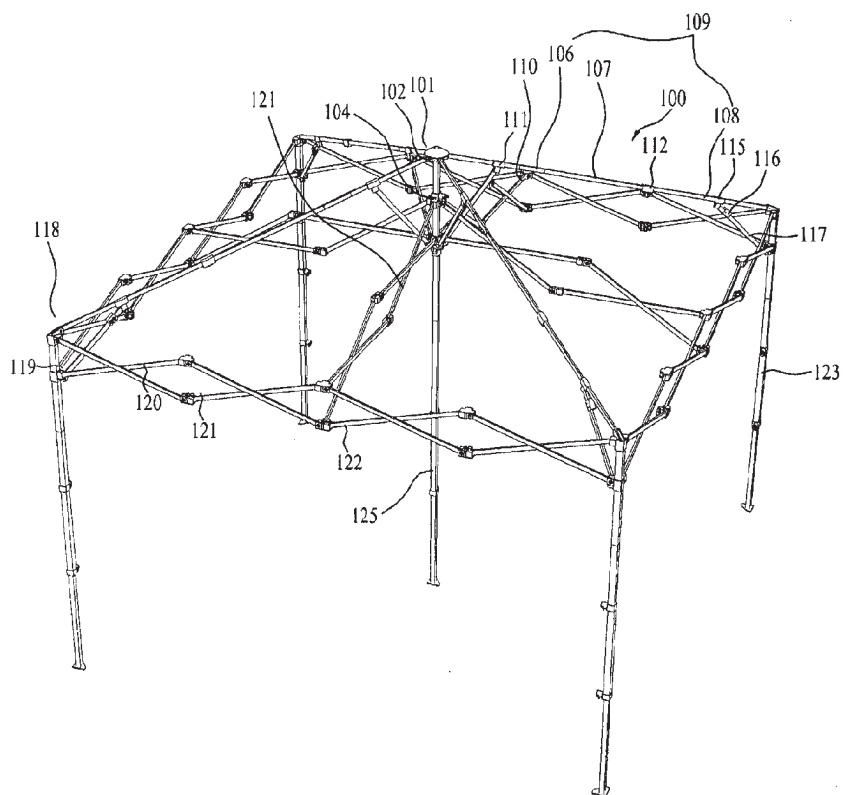


Fig.8

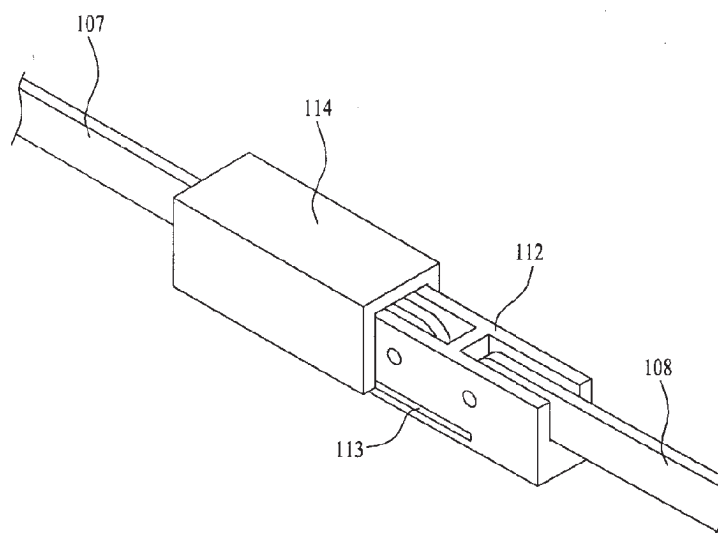


Fig.9

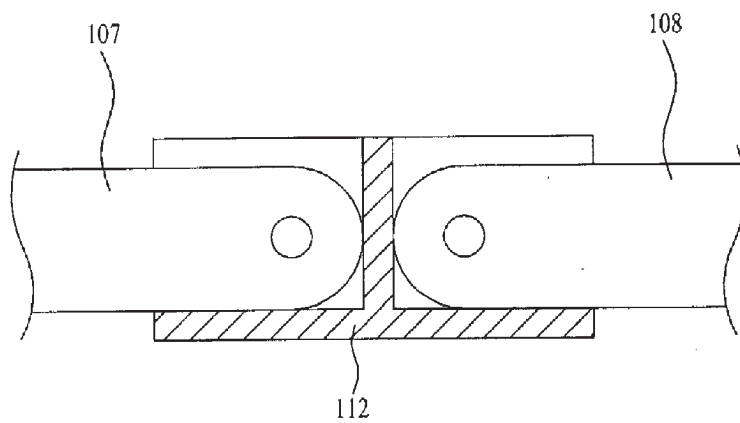


Fig.10

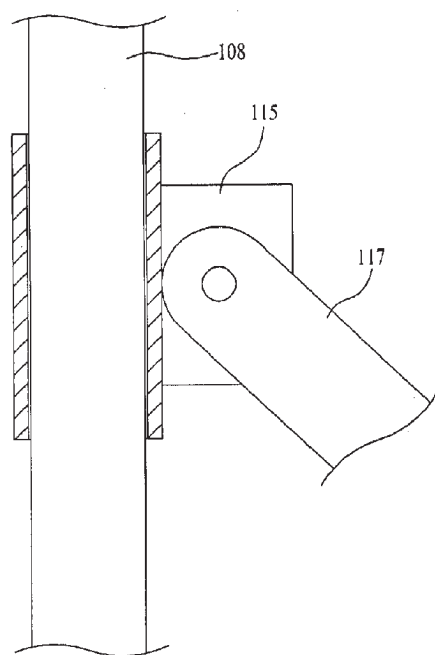


Fig.11

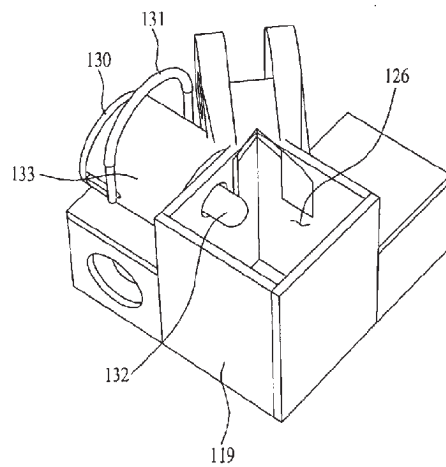


Fig.12

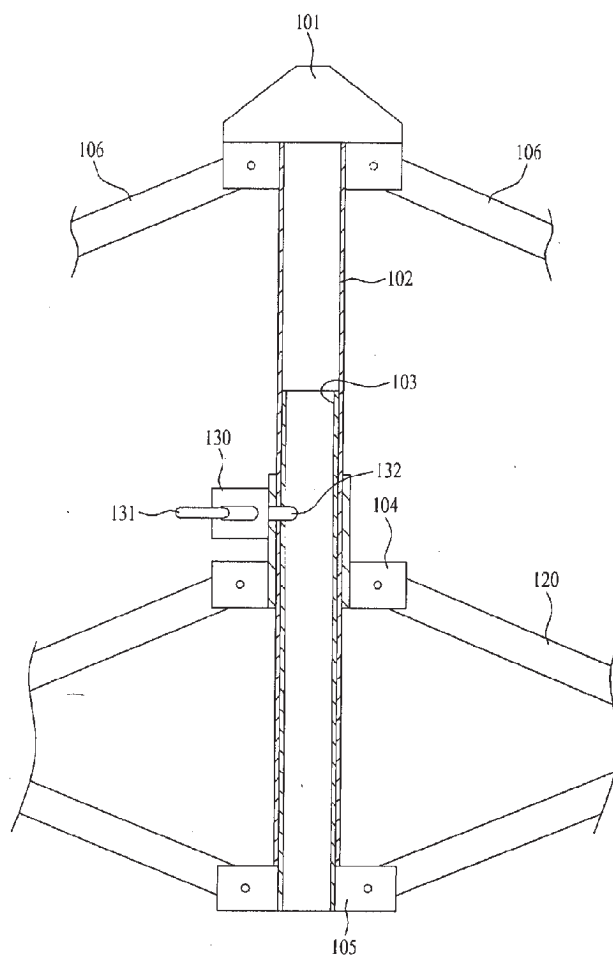


Fig.13

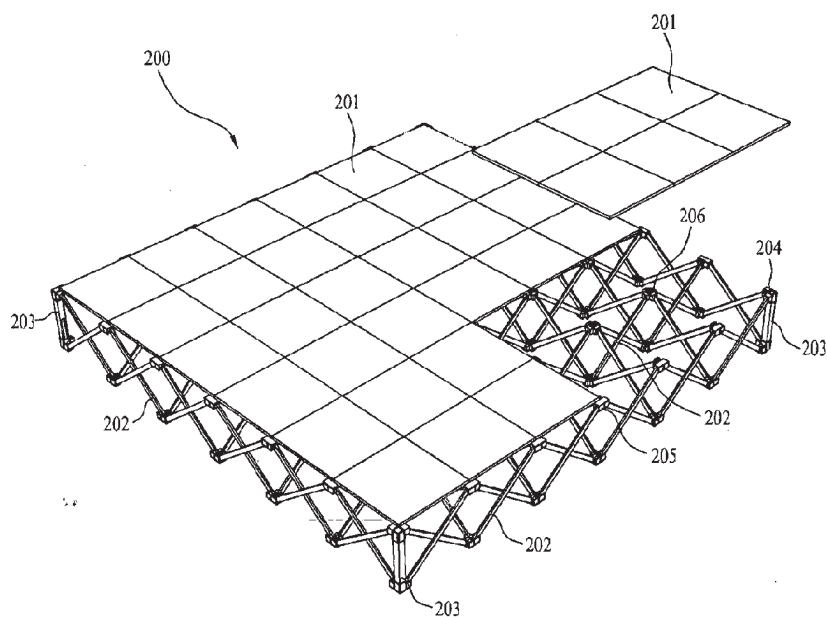


Fig.14

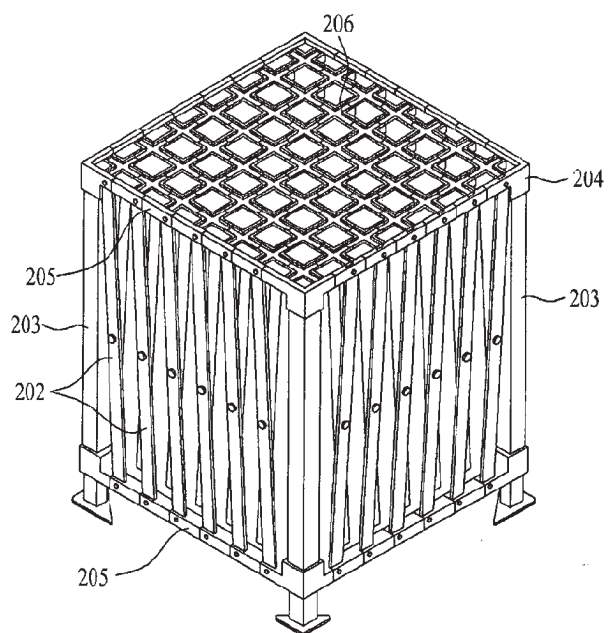


Fig.15

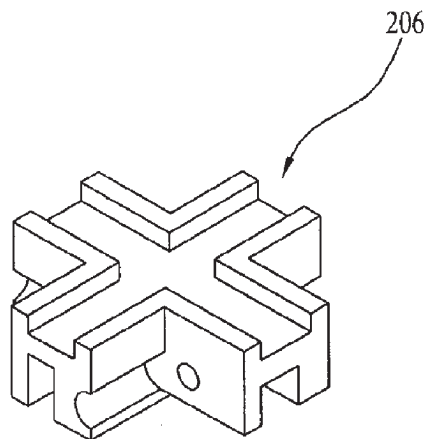


Fig.16

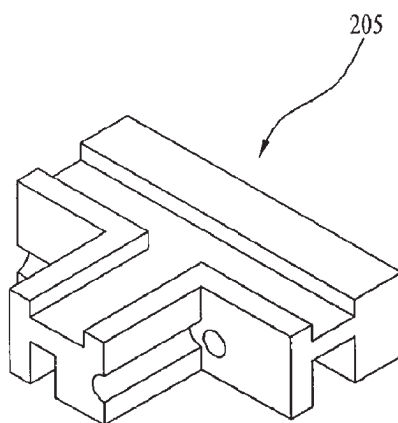
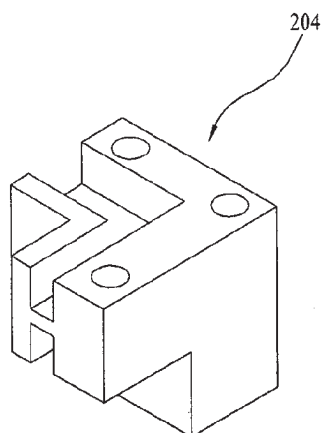


Fig.17



BUNGALOW CAPABLE OF BEING EASILY INSTALLED AND DISASSEMBLED

TECHNICAL FIELD

[0001] The present invention relates to a bungalow, particularly, a large-sized bungalow which is capable of being easily installed and disassembled, has no gaps between each component of the bungalow when assembled, is firmly fixed so as to prevent movement after installation, and is not damaged or does not collapse due to external impact or heavy rain or snow.

BACKGROUND ART

[0002] The bungalow is a kind of an architecture in the tropical region and represents an accommodation at a resort, which in general is made in the form of a wooden 2-floor building and ventilates well since it is made of palm tree leaves or reed leaves. In Korea, such a bungalow represents a temporal small size building which is commonly build near a beach or other tourist attraction spots for the sake of temporal visitors.

[0003] Most of the bungalows are made of wooden materials, so building walls and a roof costs a lot, and it takes long time to construct such bungalows.

[0004] In particular, the demand for the bungalow increases during the peak season, for example, holidays, however it is very hard to manage and maintain the bungalow during the non-peak season since the demand for the bungalow is almost less.

[0005] In addition, the bungalow may be recognized as a building, but it inevitably needs to damage natural environment in order to build the bungalows, so it is hard to supply more bungalows to the guest during the peak seasons.

DISCLOSURE OF INVENTION

Technical Problem

[0006] The present invention was invented in an effort to overcome the above-mentioned shortcoming. It is an object of the present invention to provide a large-sized bungalow which can be easily installed and disassembled, by means of which it is possible to quickly install and supply more bungalows to guests during the most peak season when there is much demand for the bungalows, in such a way to provide a bungalow which can be easily installed and disassembled, and during the non-peak season, the installed bungalow can be folded and easily stored in a warehouse.

[0007] In addition, it is another object of the present invention to provide a large-sized bungalow which can be easily installed and disassembled, wherein the present invention can provide a large-sized bungalow which can be easily installed and disassembled and can allow holiday guests, for example, families, to use without feeling any inconvenience, and any gaps don't form between each component of the installed bungalow, so the bungalow couldn't move by wind or external force, and the bungalow couldn't collapse or be damaged even there is heavy rain or heave snow.

Solution to Problem

[0008] To achieve the above objects, there is provided a bungalow capable of being easily installed and disassembled, comprising a canopy which includes a ridge pole outer member which supports, at top, a ridge and along which a center

slide engaging unit slides; a ridge pole inner member which has on its lower side a center lower engaging unit and is inserted in the inside of the lower side of the ridge pole outer member and slides in and out of the ridge pole outer member; legs which have corner engaging units at tops and corner slide engaging units which slide along the legs, thus forming 4 corners of the canopy; a first rib outer member an end of one side of which is hinged at the ridge and in which the support member engaging unit inserts and slides; a first rib inner member which inserts in the inside of an end of the other side of the first rib outer member and slides in and out, wherein an end of the first rib inner member is hinged at a joint; a second rib member an end of one side of which is hinged at the joint, and an end of the other side of which is hinged at the corner engaging unit, wherein an engaging member engaging unit inserts and slides; a reinforcing member one side of which is hinged at a reinforcing member engaging unit and the other side of which is hinged at the corner slide engaging unit, thus supporting the rib member; and an X-link wherein both ends of the X-link connected in series through the 2-branched engaging unit are hinged at the corner engaging unit and the corner slide engaging unit, thus forming the sides of the canopy; a support member to the top and bottom of which a corner engaging unit is engaged, respectively, and the legs of the canopy are inserted, thus forming 4 corners of the raised floor; an X-link wherein both ends of the X-link connected in series through the 3-branched engaging unit are hinged at the corner engaging unit of the top and bottom of each support member, thus forming the sides of the raised floor; a raised floor which each end of the X-link formed in a grid shape as the 4-branched link engaging unit and the X-link are repeatedly and continuously connected is hinged at the 3-branched link engaging unit; and an upper layer which is placed on the top of the raised floor.

[0009] At this time, a protrusion type stopper is formed at the reinforcing unit.

[0010] In addition, a slide groove is formed on both side of the joint, and to the joint, the cover is engaged, wherein the cover has a cross section shaped like , and a protrusion which is formed on an inner side of the bottom and is inserted in the slide groove of the joint.

[0011] In addition, the ends of the first rib inner member and the second rib member both hinged at the joint are formed in a semicircular shape, and an outer surface of a semicircular end contacts with the inner surface of the joint, and an end of the reinforcing member hinged at the reinforcing member engaging unit is formed in a semicircular shape, and an outer surface of the end of the semicircular reinforcing member contacts with the inner surface of the reinforcing member engaging unit.

[0012] In addition, a hook is formed at the center slide engaging unit, so the ridge pole inner member is fixed at the ridge pole outer member.

[0013] In addition, a hook is formed at the corner slide engaging unit and fixes the corner slide engaging unit at the leg in a state where the canopy is unfolded.

[0014] In addition, the hook is configured in such a way that a protrusion protrudes into the inside of the engaging unit, and the protrusion protruding into the inside of the body of the hook is elastically supported by a spring disposed inside of the body, and engaged with handle when the handle is pulled, the protrusion is inserted in the inside of the hook body, and

when the handle is released, the protrusion protrudes into the inside of the insertion member by means of elastic force of the spring.

[0015] In addition, a 3-branched link engaging unit is engaged to an intermediate portion of the X-link forming 4 sides of the canopy, and an end of one side of the X-link connected in series through the 2-branched link engaging unit is hinged at the 3-branched link engaging unit, and an end of the other side of the X-link is hinged at the center slide engaging unit and the center lower engaging unit.

[0016] In addition, there is further provided a support member one side of which is hinged at the support member engaging unit, and the other side of which is hinged at the center lower engaging unit, thus supporting the rib member.

[0017] In addition, a hook is formed at a lower side of the leg, and an extending leg is inserted into the inner side of the bottom of the leg.

Effects of the Invention

[0018] In the present invention, the large-sized bungalow can be easily installed and disassembled, the bungalow can be easily installed and provided to guests during the most peak season when there is much demand for the bungalows, and during the non-peak season, the bungalow can be folded and be easily stored in a warehouse.

[0019] In addition, the present invention provides a large-sized bungalow which can be easily installed and disassembled and is large enough for holiday guests, for example, families, to use, and since no gaps form between each component of the bungalow, the bungalow couldn't move by wind or external impact, and the bungalow couldn't collapse or be damaged even though there is heavy rain or heavy snow.

BRIEF DESCRIPTION OF DRAWINGS

[0020] FIG. 1 is a perspective view depicting a state where a large bungalow, which can be easily installed and disassembled, is unfolded according to the present invention.

[0021] FIG. 2 is a perspective view depicting a state where a large bungalow, which can be easily installed and disassembled, is folded according to the present invention.

[0022] FIG. 3 is a perspective view depicting a state where a canopy of a bungalow is unfolded according to the present invention.

[0023] FIG. 4 is a perspective view depicting a state where a canopy of a bungalow is folded according to the present invention.

[0024] FIG. 5 is a view depicting key components in a state where a canopy is unfolded.

[0025] FIG. 6 is a view depicting key components in a state where a canopy is folded.

[0026] FIG. 7 is a perspective view depicting a canopy in a state where a center support unit is engaged.

[0027] FIG. 8 is a perspective view depicting a joint of a rib member.

[0028] FIG. 9 is a cross sectional view depicting a joint to show a state where a rib member and a joint are engaged.

[0029] FIG. 10 is a cross sectional view depicting a state where a reinforcing member and a reinforcing member engaging unit are engaged.

[0030] FIG. 11 is a perspective view depicting a corner slide engaging unit with a hook.

[0031] FIG. 12 is a cross sectional view depicting a hook which is formed at a center slide engaging unit.

[0032] FIG. 13 is a perspective view depicting a state where a raised floor of a bungalow is unfolded according to the present invention.

[0033] FIG. 14 is a perspective view depicting a state where a raised floor of a bungalow is folded according to the present invention.

[0034] FIG. 15 is a perspective view depicting a 4-branched link engaging unit.

[0035] FIG. 16 is a perspective view depicting a 3-branched link engaging unit.

[0036] FIG. 17 is a perspective view depicting a corner engaging unit.

DESCRIPTIONS OF REFERENCE NUMBERS OF KEY COMPONENTS IN THE DRAWINGS

[0037]	100: Canopy
[0038]	101: Ridge
[0039]	102: Ridge pole outer member
[0040]	103: Ridge pole inner member
[0041]	104: Center slide engaging unit
[0042]	105: Center lower engaging unit
[0043]	106: First rib outer member
[0044]	107: First rib inner member
[0045]	108: Second rib
[0046]	109: Rib member
[0047]	110: Support member
[0048]	111: Support member engaging unit
[0049]	112: Joint
[0050]	113: Slide groove
[0051]	114: Cover
[0052]	115: Reinforcing member engaging unit
[0053]	116: Stopper
[0054]	117: Reinforcing member
[0055]	118: Corner engaging unit
[0056]	119: Corner slide engaging unit
[0057]	120: X-link
[0058]	121: 2-branched link engaging unit
[0059]	122: 3-branched link engaging unit
[0060]	123: Leg
[0061]	124: Extending leg
[0062]	125: Center support member
[0063]	126: Insertion member
[0064]	130: Hook
[0065]	131: Handle
[0066]	132: Protrusion
[0067]	133: Body
[0068]	200: Raised floor
[0069]	201: Upper layer
[0070]	202: X-link
[0071]	203: Support member
[0072]	204: Corner engaging unit
[0073]	205: 3-branched link engaging unit
[0074]	206: 4-branched link engaging unit

BEST MODE FOR CARRYING OUT THE INVENTION

[0075] The large-sized bungalow, which can be easily installed and disassembled, according to the present invention will be described with reference to the accompanying drawings.

[0076] FIG. 1 is a perspective view depicting a state where a large bungalow, which can be easily installed and disassembled, is unfolded according to the present invention. FIG.

2 is a perspective view depicting a state where a large bungalow, which can be easily installed and disassembled, is folded according to the present invention. FIG. 3 is a perspective view depicting a state where a canopy of a bungalow is unfolded according to the present invention. FIG. 4 is a perspective view depicting a state where a canopy of a bungalow is folded according to the present invention. FIG. 5 is a view depicting key components in a state where a canopy is unfolded. FIG. 6 is a view depicting key components in a state where a canopy is folded. FIG. 7 is a perspective view depicting a canopy in a state where a center support unit is engaged. FIG. 8 is a perspective view depicting a joint of a rib member. FIG. 9 is a cross sectional view depicting a joint to show a state where a rib member and a joint are engaged. FIG. 10 is a cross sectional view depicting a state where a reinforcing member and a reinforcing member engaging unit are engaged. FIG. 11 is a perspective view depicting a corner slide engaging unit with a hook. FIG. 12 is a cross sectional view depicting a hook which is formed at a center slide engaging unit. FIG. 13 is a perspective view depicting a state where a raised floor of a bungalow is unfolded according to the present invention. FIG. 14 is a perspective view depicting a state where a raised floor of a bungalow is folded according to the present invention. FIG. 15 is a perspective view depicting a 4-branched link engaging unit. FIG. 16 is a perspective view depicting a 3-branched link engaging unit. FIG. 17 is a perspective view depicting a corner engaging unit.

[0077] The large-sized bungalow which can be easily installed and disassembled according to the present invention, as depicted in FIGS. 1 and 2, include a raised floor 200 spread over the ground, and a canopy 100 which is engaged to the top of the raised floor 200.

[0078] The canopy 100, as depicted in FIG. 3, includes four legs 123, and a ridge 101 formed in the center of the four legs 123. Each of the legs 123 is connected through the rib member 109 to the ridge 101, thus forming the canopy 100.

[0079] As for the canopy 100 in more details, a ridge pole outer member 102 and a ridge pole inner member 103 both supporting the ridge 101 are formed in the center of the canopy 100.

[0080] The ridge pole inner member 103 is configured to slide in the inside of the ridge pole outer member 102 on the lower side of the ridge pole outer member 102. When the canopy 100 spreads out, the ridge pole inner member 103 is inserted into the inside of the ridge pole outer member 102, so the ridge inner member 103, as depicted in FIG. 5, is not seen from outside, and when the canopy 100 is folded, the ridge pole inner member 103, as depicted in FIG. 6, protrudes from the ridge pole outer member 102, so it becomes visible to eyes.

[0081] At the lower end of the ridge pole outer member 102, a center slide engaging unit 104 is engaged sliding along the ridge pole outer member 102, and the center lower engaging unit 105 is fixedly engaged at the lower end of the ridge pole inner member 103.

[0082] The legs 123 are formed in the four corners of the canopy 100. In the leg 123, as depicted in FIG. 3, a corner engaging unit 118 is formed at the top of each of the legs 123, and the corner slide engaging unit 119 is disposed, which can slide along the leg 123.

[0083] The X-link 120 connected in series using the 2-branched link engaging unit 121 is hinged at the corner engaging unit 118 engaged to the top of the legs 123 and at the

corner slide engaging unit 119 which slides along the leg 123, thus forming four sides of the canopy 100.

[0084] In the x-link 120, two rods are hinged in the center.

[0085] In the canopy 100, as depicted in FIG. 3, the four X-links 120 are connected in series using the 2-branched link engaging unit 121, thus forming the sides of the canopy 100.

[0086] In addition, there are provided rib members 109 connecting the four corners of the ridge 101 and the canopy 100. The rib member 109 is formed of a first rib member and a second rib member 108.

[0087] The first rib member is formed of a first rib outer member 106 and a first rib inner member 107. The first rib inner member 107 is inserted in the inside of the first rib outer member 106 and slides in and out of the first rib outer member 106.

[0088] An end of one side of the first rib outer member 106 is hinged at the ridge 101, and into an end of the other side of the first rib outer member 106, the first rib inner member 107 is inserted, and the end of the first rib inner member 107 is hinged at the joint 112.

[0089] In addition, an end of one side of the second rib member 108 is hinged at the joint 112, and an end of the other side of the second rib member 108 is hinged at the corner engaging unit 118.

[0090] A reinforcing member engaging unit 115 fixedly engaged to the second rib member 108 is formed at the second rib member 108, and one side of the reinforcing member 117 is hinged at the reinforcing member engaging unit 115. The other side of the reinforcing member 117 is hinged at the corner slide engaging unit 119 which slides along the leg 123.

[0091] When the canopy 100 spread out, the reinforcing members 117 are supported by the legs, thus supporting the rib members 109, so it is possible to prevent any sagging and damages of the rib members 109 due to external weight or impacts.

[0092] In addition, an end of one side of the support member 110 is hinged at the support member engaging unit 111 fixedly engaged to the first rib outer member 106, and an end of the other side of the support member 110 is hinged at the center lower engaging unit 105 engaged to the lower end of the ridge support inner member 103.

[0093] The support member 110 is supported by the ridge pole 101 and plays a role of preventing the sagging or damages of the rib members 109.

[0094] In the canopy 100, the rib members 109 most receive load. In case of the large size canopy 100 according to the present invention, the rib members 109 may be easily sagged or damaged by even minute impacts. Both sides of the rib member 109 are supported by the reinforcing member 117 and the support member 110, thus distributing the loads which apply to the rib members 109, so it is possible to stably support the loads which apply to the rib members 109 of the canopy 100.

[0095] As depicted in FIGS. 3 and 5, when the canopy 100 is folded, the canopy 100 is folded as depicted in FIGS. 4 and 6, thus reducing the entire volume. When the canopy 100 is folded as in FIGS. 4 and 6, the rib members 109 are folded about the joints 112. At this time, when the joints 112 are bent, the first rib inner member 107 slides in the inside of the first rib outer member 106, and the first rib outer member 106 hinged at the ridge 101 rotates downward, and the support member 110 hinged at the support member engaging unit 111 fixedly engaged at the first rib outer member 106 moves the center lower engaging unit 105 downward.

[0096] As the center lower engaging unit 105 slides downward, the ridge pole inner member 103 inserted in the inside of the ridge pole outer member 106 slides and separates, so the first rib outer member 106 and the support member 110 are folded.

[0097] In addition, as the canopy 100 is folded, the second rib member 108 hinged at the corner engaging unit 118 rotates downward, and the reinforcing member 117 hinged at the reinforcing member engaging unit 115 fixedly engaged to the second rib member 108 pushes the corner slide engaging unit 119, so the corner slide engaging unit 119 slides downward along the leg 123, and the second rib member 108 and the reinforcing member 117 are folded.

[0098] The extending leg 124 is inserted in the inside of the lower end of the leg 123, thus raising the height of the canopy 100. When the canopy 100 is folded, the hook 130 formed at the lower end of the leg 123 is unhooked, and the extending leg 124 can be inserted in the inside of the leg 123, thus contracting the length.

[0099] The stopper 116 which protrudes from the reinforcing member 117 allows to smoothly unfold the canopy 100 when the folded canopy 100 spreads out.

[0100] The stopper 116 is installed at the reinforcing member 117, and when the canopy 100 is folded, the stopper 116, as depicted in FIG. 6, contacts with the leg 123 and guides the reinforcing member 117 to widen at a predetermined angle with respect to the leg 123, thus facilitating easier unfolding when the canopy 100 spreads out.

[0101] In case of absence of the stopper 116, the enter axes of the reinforcing member 117 and the leg 123 become parallel. If the canopy 100 spreads out in this state, the second rib member 108, the reinforcing member 117 and the leg 123 cross one another, for which a problem may occur since the canopy 100 does not spread out well.

[0102] Therefore, the stopper 116 is preferably provided in the earlier mentioned way, thus forming a triangular configuration with the aid of the second rib member 108, the leg 123 and the reinforcing member 117, so the canopy 100 can smoothly spread out when unfolding the canopy 100.

[0103] As depicted in FIG. 3, the X-link 120 is connected in series through the 2-branched link engaging unit 121, so both ends thereof are hinged at the corner engaging unit 118 and the corner slide engaging unit 119 of the leg 123. One side of the X-link 120, which is connected in series, is hinged at the 3-branched link engaging unit 122 engaged at the intermediate portion of the X-link 120 which is connected in series, and the other side of the X-link 120 is hinged at the center slide engaging unit 104 and at the center lower engaging unit 105 of each ridge pole, so the loads concentrating at the ridge 101 can distribute, and the canopy 100 can stably support the loads.

[0104] In case where a large size canopy 100 is provided, the center support member 125, as depicted in FIG. 7, is inserted in an insertion port (not depicted) at the lower end of the center lower engaging unit 105, so the center support member 125 can stably support the loads which apply to the ridge 101 and the rib member 109.

[0105] Even though the large size canopy 100 is provided by installing the center support member 125 on the lower side of the ridge pole, the loads which apply to the ridge 101 of the canopy 100 and the rib member 109 can be effectively supported, thus building a stable canopy 100.

[0106] When the canopy 100 spreads out, as depicted in FIG. 8, a cover 114 the cross section of which looks like □ is

engaged at the joint 112, so that the canopy 100 can effectively support external impact or loads, and it is preferred that the canopy 100 is configured not to swing or move by external load or impact.

[0107] As depicted in FIG. 8, a slide groove 113 is formed on both sides of the body of the joint 112 which hinges the first rib inner member 107 and the second rib member 108, and a protrusion (not depicted) is formed on the inner side of both lower sides of the cover 114. In this state, if the cover 114 is engaged at the joint 112 in the way as depicted in FIG. 8, the protrusion of the cover 114 inserts in the slide groove 113 of the joint 112, so the cover 114 can be fixed at the joint 112.

[0108] When loads apply to the rib member 109, the first rib inner member 107 and the second rib member 108 might bend a little about the joint 112, and the canopy 100 might swing. As described above, it is possible to prevent the first rib inner member 107 and the second rib member 108 from bending by loads or impact by engaging the cover 114 to the joint 112, so the canopy 100 can be effectively prevented from swinging by impacts or loads.

[0109] As depicted in FIG. 5, in an effort to stably support the loads which apply to the reinforcing member 117 which supports the rib member 109, the hook 130, as depicted in FIG. 5, is provided at the corner slide engaging unit 119, and hole (not depicted) is formed at the leg 123. Therefore, when the canopy 100 spreads out, the hook 130 fixes the corner slier engaging unit 119 at the leg 123, thus effectively supporting external impacts or loads, while preventing the canopy 100 from moving by external loads or impacts.

[0110] As depicted in FIG. 11, in the hook 130, a handle 131 sliding along the hook body 133 is formed on one side of the corner slide engaging unit 119, and a protrusion 132 protrudes from an inner side of the insertion member 126 of the corner slide engaging unit 119.

[0111] The protrusion 132 is elastically supported by a spring (not depicted) and in the inside of the body 133 of the hook 130, elastically protrudes into the inside of the insertion member 126 or is inserted into the inside of the body 133 of the hook 130. Here, the protrusion 132 is connected to the handle 131 and in the inside of the body 133 of the hook 130. When the user pulls the handle 131, the protrusion 132 inserts in the inside of the body 133, and when the user releases the handle 131, the protrusion 132 protrudes into the inside of the insertion member 126.

[0112] The thusly constituted hook 130, as depicted in FIG. 12, is provided at the center slide engaging unit 104. When the canopy 100 spreads out, the ridge pole inner member 103 inserts in the inside of the ridge pole outer member 102. When the hole (not depicted) of the ridge pole inner member 103 is arranged matching with the hole (not depicted) punched out at the ridge pole outer member 102, the protrusion 132 of the hook 130 inserts into the matching holes, so the ridge pole outer member 102 and the ridge pole inner member 103 are fixed, not moving with respect to each other, thus effectively supporting external impacts or loads, while preventing the canopy 100 from moving due to external loads or impacts.

[0113] In addition, as depicted in FIG. 9, the ends of the first rib inner member 107 and the second rib member 108 both hinged at the joint 112 are formed in semicircular shapes, and the outer surfaces of the semicircular ends contact with the inner surface of the joint 112.

[0114] In the above configuration, since the first rib inner member 107 and the second rib member 108 contact with the

inner surface of the joint 112, no gaps are formed, thus effectively preventing any movements of the canopy 100.

[0115] In the same way, as depicted in FIG. 10, the end of the reinforcing member 17 hinged at the reinforcing member engaging unit 115 engaged to the second rib member 108 is formed in a semicircular shape, and the outer surface at the end of the reinforcing member 117 is configured to rotate contacting with the inner surface of the reinforcing member engaging unit 115, which makes it possible to effectively support external impacts or loads, and the canopy 100 does not swing by external loads or impacts.

[0116] The thusly constituted canopy 100 is engaged to the top of the raised floor 200, thus forming a bungalow. The raised floor 200, as depicted in FIG. 13, may be configured in such a way that the support members 203 to which the corner engaging units 204 as depicted in FIG. 17 are engaged on its upper and lower sides form four corners of the raised floor 200. Both ends of the X-link 202 connected in series through the 3-branched link engaging unit 205 in FIG. 16 are hinged at the corner engaging unit 204 engaged to the top and bottom of the support member 203, by which the X-link, which is connected in series, forms 4 sides of the raised floor 200.

[0117] As not depicted in the drawings, the support member 203 is formed of a support member outer member (not depicted) and a support member (inner member), and the corner engaging unit 203 is engaged to the top of the support member outer member, and the support member inner member slides in and out of the inside on the lower side of the support member outer member, and the corner engaging unit 204 is engaged to the end of the support member inner member.

[0118] In addition, each end formed in the grid shape as the X-link 202 is continuously hinged through the 4-branched link engaging unit 206 in FIG. 15 and is configured in a grid shape and as the X-link 202 is continuously hinged through the 4-branched link engaging unit 206 and is configured in a grid shape is hinged at the 3-branched link engaging unit 205 of the X-link 202, which is connected in series, forming 4 sides of the raised floor 200, so the raised floor formed in a go board when viewing from the top as depicted in FIG. 13

[0119] In addition, a predetermined number of the upper plates 201 are placed on the top of the raised floor 200, thus forming the raised floor 200.

[0120] The leg 123 or the extending leg 124 of the canopy 100 is inserted in the engaging grooves (not depicted) of the support member 203 and of the corner engaging unit 204 of the raised floor 200, thus forming a bungalow of the present invention as depicted in FIG. 1.

[0121] The thusly constituted bungalow of the present invention can be installed separate from the canopy 100 and the raised floor 200 for the sake of separate use. The bungalow, as depicted in FIG. 1, may be manufactured and used by simply engaging the canopy 100 and the raised floor 200.

[0122] In addition, if the canopy 100 and the raised floor 200, as depicted in FIG. 1, are folded in a state where the canopy 100 and the raised floor 200 are engaged, they, as depicted in FIG. 2, can be easily folded, for example, even in a state where the canopy 100 and the raised floor 200 are engaged, so installation and disassembling are easy, and carrying and storage are very easy.

[0123] Since the large-sized bungalow according to the present invention can be easily installed or disassembled, as many bungalows as possible can be quickly installed during the peak season when there is a lot of demand for bungalows,

thus providing the guests. It is advantageous that the bungalows can be folded during the non-peak season and can be easily stored.

[0124] In addition, the bungalows of the present invention can be easily installed and disassembled and can provide a space big enough for the guests, for example, families, to use and no gaps are formed between each component of the bungalow, so the bungalow does not move by wind or external impact and could not collapse or could not be damaged due to heavy rain or heavy snow while stably withstanding such impacts.

[0125] The large-sized bungalow which can be easily installed and disassembled according to the present invention, so far, has been described.

[0126] It should be understood that the technical configuration of the present invention can be implemented in other forms by those who have skills in the art without changing technical concepts and essential features.

[0127] Therefore, the embodiments so far described are provided for illustrative purposes, not limiting to the disclosures. It is should be interpreted that the scope of the present invention may be defined by the claims below, not by the detailed descriptions, and all the changes or modifications deriving from the meaning of the claims below and the equivalent concepts belong to the scope of the present invention.

1. A large-sized bungalow capable of being easily installed and disassembled, comprising:

a canopy 100 which includes:

a ridge pole outer member 102 which supports, at top, a ridge 101 and along which a center slide engaging unit 104 slides;

a ridge pole inner member 103 which has on its lower side a center lower engaging unit 105 and is inserted in the inside of the lower side of the ridge pole outer member 102 and slides in and out of the ridge pole outer member 102;

legs 123 which have corner engaging units 118 at tops and corner slide engaging units 119 which slide along the legs 123, thus forming 4 corners of the canopy 100;

a first rib outer member 106 an end of one side of which is hinged at the ridge 101 and in which the support member engaging unit 111 inserts and slides;

a first rib inner member 107 which inserts in the inside of an end of the other side of the first rib outer member 106 and slides in and out, wherein an end of the first rib inner member 107 is hinged at a joint 112;

a second rib member 108 an end of one side of which is hinged at the joint 112, and an end of the other side of which is hinged at the corner engaging unit 118, wherein an engaging member engaging unit 115 inserts and slides;

a reinforcing member 117 one side of which is hinged at a reinforcing member engaging unit 115 and the other side of which is hinged at the corner slide engaging unit 119, thus supporting the rib member 109; and

an X-link 120 wherein both ends of the X-link 120 connected in series through the 2-branched engaging unit 121 are hinged at the corner engaging unit 118 and the corner slide engaging unit 119, thus forming the sides of the canopy;

a support member 203 to the top and bottom of which a corner engaging unit 204 is engaged, respectively, and

the legs **123** of the canopy **100** are inserted, thus forming 4 corners of the raised floor **200**;

an X-link **202** wherein both ends of the X-link **202** connected in series through the 3-branched engaging unit **205** are hinged at the corner engaging unit **204** of the top and bottom of each support member **203**, thus forming the sides of the raised floor **200**;

a raised floor **200** which each end of the X-link **202** formed in a grid shape as the 4-branched link engaging unit **206** and the X-link **202** are repeatedly and continuously connected is hinged at the 3-branched link engaging unit **205**; and

an upper layer **201** which is placed on the top of the raised floor **200**.

2. The large-sized bungalow of claim 1 capable of being easily installed and disassembled **1**, wherein a protrusion type stopper **116** is formed at the reinforcing unit **117**.

3. The large-sized bungalow capable of being easily installed and disassembled of claim 1, wherein a slide groove **113** is formed on both side of the joint **112**, and to the joint **112**, the cover **114** is engaged, wherein the cover **114** has a cross section shaped like , and a protrusion which is formed on an inner side of the bottom and is inserted in the slide groove **113** of the joint **112**.

4. The large-sized bungalow capable of being easily installed and disassembled of claim 1, wherein the ends of the first rib inner member **107** and the second rib member **108** both hinged at the joint **112** are formed in a semicircular shape, and an outer surface of a semicircular end contacts with the inner surface of the joint **112**, and an end of the reinforcing member **117** hinged at the reinforcing member engaging unit **115** is formed in a semicircular shape, and an outer surface of the end of the semicircular reinforcing member **117** contacts with the inner surface of the reinforcing member engaging unit **115**.

5. The large-sized bungalow capable of being easily installed and disassembled capable of being easily installed and disassembled of claim 1, wherein a hook **130** is formed at the center slide engaging unit **104**, so the ridge pole inner member **103** is fixed at the ridge pole outer member **102**.

6. The large-sized bungalow capable of being easily installed and disassembled of claim 1, wherein a hook **130** is formed at the corner slide engaging unit **119** and fixes the corner slide engaging unit **118** at the leg **123** in a state where the canopy **100** is unfolded.

7. The large-sized bungalow capable of being easily installed and disassembled of claim 6, wherein the hook **130** is configured in such a way that a protrusion **132** protrudes into the inside of the engaging unit **126**, and the protrusion **132** protruding into the inside of the body **133** of the hook **130** is elastically supported by a spring disposed inside of the body **133**, and engaged with the handle when the handle **131** is pulled, the protrusion **132** is inserted in the inside of the hook body **133**, and when the handle **131** is released, the protrusion **132** protrudes into the inside of the insertion member **126** by means of elastic force of the spring.

8. The large-sized bungalow capable of being easily installed and disassembled of claim 1, wherein a 3-branched link engaging unit **122** is engaged to an intermediate portion of the X-link **120** forming 4 sides of the canopy **100**, and an end of one side of the X-link **120** connected in series through the 2-branched link engaging unit **121** is hinged at the 3-branched link engaging unit **122**, and an end of the other side of the X-link **120** is hinged at the center slide engaging unit **104** and the center lower engaging unit **105**.

9. The large-sized bungalow capable of being easily installed and disassembled of claim 1, further comprising:

a support member **110** one side of which is hinged at the support member engaging unit **111**, and the other side of which is hinged at the center lower engaging unit **105**, thus supporting the rib member **109**.

10. The large-sized bungalow capable of being easily installed and disassembled of claim 1, wherein a hook **130** is formed at a lower side of the leg **123**, and an extending leg **124** is inserted into the inner side of the bottom of the leg **123**.

11. The large-sized bungalow capable of being easily installed and disassembled of claim 5, wherein the hook **130** is configured in such a way that a protrusion **132** protrudes into the inside of the engaging unit **126**, and the protrusion **132** protruding into the inside of the body **133** of the hook **130** is elastically supported by a spring disposed inside of the body **133**, and engaged with the handle when the handle **131** is pulled, the protrusion **132** is inserted in the inside of the hook body **133**, and when the handle **131** is released, the protrusion **132** protrudes into the inside of the insertion member **126** by means of elastic force of the spring.

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