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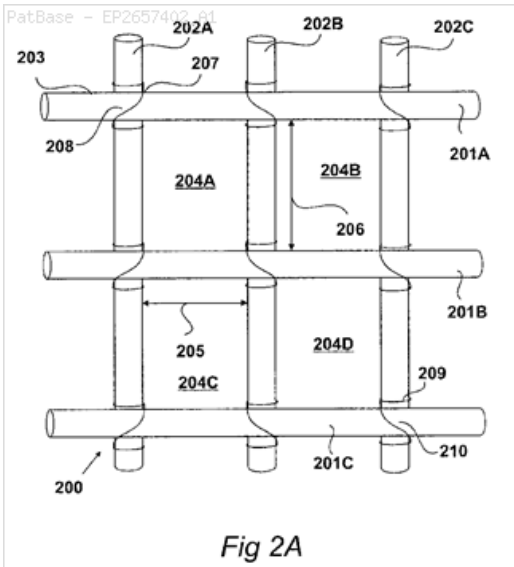
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Title: REINFORCING **STRUCTURE** AND METHOD OF MANUFACTURE THEREOF **STRUCTURE** DE RENFORCEMENT ET SON PROCEDE DE FABRICATION </

Abstract: A reinforcing **structure** (200,300,400,500,600,703,900,1000) comprising a first set of bundles (201,301,402,901,1001) and a second set of bundles (202,302,403,902,1002) is described herein. Each of the first set of bundles are arranged substantially parallel to other bundles of the first set, and the second set of bundles are arranged substantially perpendicular to the first set of bundles. The first set of bundles and the second set of bundles are arranged in a grid (203,303,401,501,601) defining holes (204,304,1003) which have widths (205,305) and lengths (206,306) greater than 4mm with the first set of bundles and the second set of bundles being maintained in the grid by a connection means (207,307,407,903). Each of the bundles comprise a plurality of strands (212,905) of material derived from **bamboo** and each bundle is provided with a coating (211,906) to provide physical and chemical protection to the strands.

Classifications:

International (IPC 8-9): D03D15/02 D04H3/04 E01C11/16 E01C7/00 (Advanced/Invention)
CPC: D03D15/02 D04H3/04 E01C11/16 E01C7/00 E01C11/165



Family:

Publication number	Publication date	Application number	Application date
DE602013003126 D1	20151029	DE201360003126T	20130426
EP2657402 A1	20131030	EP20130250054	20130426
EP2657402 B1	20150916	EP20130250054	20130426
GB201207576 A0	20120613	GB20120007576	20120428
GB201220439 A0	20121226	GB20120020439	20121114
GB2501541 A1	20131030	GB20120007576	20120428
GB2501564 A1	20131030	GB20120020439	20121114
GB2501564 B2	20141015	GB20120020439	20121114

Priority:

GB20120007576 20120428 GB20120020439 20121114 EP20130250054 20130426

Probable Assignee: ROAD SOLUTIONS LTD

Assignee(s): (std): ROAD SOLUTIONS LTD

Assignee(s): ROAD SOLUTIONS LTD DODWORTH ; ROAD SOLUTIONS LIMITED

Inventor(s): (std): INMAN MATTHEW JAMES

Inventor(s): INMAN MATTHEW JAMES DODWORTH ; MATTHEW JAMES INMAN

Agent(s): JANY PETER DIPL PHYS DRRERNAT; ATKINSON RALPH

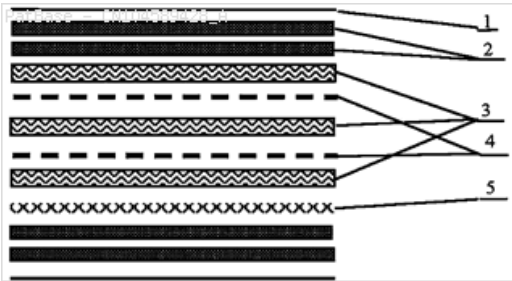
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: HIGH-STRENGTH **BAMBOO** BUNDLE BOARD USING GREEN-REMOVED OR YELLOW-REMOVED **BAMBOO** BUNDLE CURTAINS AS RAW MATERIALS AND MANUFACTURING METHOD THEREOF

Abstract: The invention relates to a high-strength **bamboo** bundle board using green-removed or yellow-removed **bamboo** bundle curtains as raw materials. One to two layers of longitudinal green **bamboo** bundle curtains are arranged at the back layers of the upper surface and the lower surface, a core layer is made of a longitudinal **bamboo** bundle curtain, or is staggered by a longitudinal **bamboo** bundle curtain and a transverse texture **bamboo** curtain, and the bottom part can be provided with reinforcing ribs, such as glass fiber nets or glass fiber bars and basalt bars. The high-strength **bamboo** bundle board has the advantages that the compacted green **bamboo** bundle curtain is used as the surface curtain, the **bamboo** bundle board is used as the core layer, and the glass fiber net can be arranged in the bottom part, so the high-strength **bamboo** bundle board has the characteristics of good size stability, high strength, good abrasion-resistant property, attractive appearance and the like; the manufactured high-strength **bamboo** bundle board can be used for manufacturing train flat truck and covered car bottom boards, automobile carriage bottom boards and fence boards, and the requirements of outdoor weatherability and high strength of the products can be met.

Classifications:

International (IPC 8-9): B27D1/04 B27D1/08 B27K5/04 B32B21/04 B32B21/06 B32B21/10 B32B37/06 B32B37/10 B32B37/12 (Advanced/Invention)
CPC: B27D1/04 B27D1/08 B27K5/04 B27N3/10 B32B9/02 B32B9/06 B32B27/42 B32B29/06 B32B37/02 B32B37/06 B32B37/10 B32B38/18 B32B2260/046 B32B2307/54 B32B2307/554 B32B2307/734 B32B2307/752



Family:

Publication number	Publication date	Application number	Application date
CN104260159 A	20150107	CN201410472838	20140916
CN104589428 A	20150506	CN201510033340	20150122

Priority:

CN201410472838 20140916 CN201510033340 20150122

Probable Assignee: ZHUJI GUANGYU BAMBOO IND CO LTD

Assignee(s): (std): ZHUJI GUANGYU BAMBOO IND CO LTD

Assignee(s): ZHUJI CITY GUANGYU BAMBOO IND CO LTD ; ZHUJI GUANGYU BAMBOO IND CO

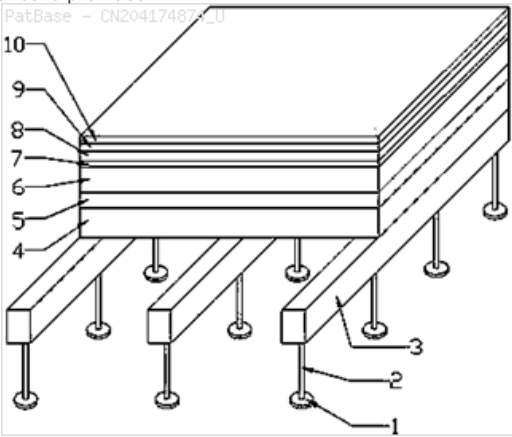
Inventor(s): (std): XU BIN ; XU JUN ; XU WEICHU ; ZHU QIMENG

Title: WATERPROOF MULTI-LAYER SOUND-INSULATION **BAMBOO** WOOD COMPOSITE **FLOOR** WITH SUPPORTING COLUMNS AND WOOD CUSHIONS

Abstract: A waterproof multi-layer sound-insulation **bamboo** wood composite **floor** with supporting columns and wood cushions comprises a face layer, a bottom layer and a middle layer, and is characterized in that metal pads and the metal supporting columns are arranged at the positions, making contact with the ground, of the bottom layer, and the wood cushions are arranged on the metal supporting columns; the middle layer is composed of a wood chip board, a waterproof layer and a core board from bottom to top layer by layer; the face layer is composed of a wood veneer, a **bamboo** chip layer, an ultraviolet solidifying prime coat layer and an ultraviolet solidifying finishing coat layer from bottom to top layer by layer. The metal supporting columns are adopted, the wood cushions, the wood chip board and the core board are used in cooperation, and therefore the **floor** has an extremely excellent effect on buffering stepping movement during sports; the waterproof layer is added between the wood chip board and the core board, and therefore the product is higher in durability; through spaces and air between the wood chip board, the core board, the wood cushions on the lower side and the metal supporting columns, and the good sound insulating performance of the **floor** is ensured; the natural **bamboo** pattern appearance is provided.

Classifications:

International (IPC 8-9): B32B21/04 E04F15/02
E04F15/22 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
 CN104264936 A	20150107	CN201410547998	20141016
 CN204174874 U	20150225	CN201420598407U	20141016

Priority:

CN201410547998 20141016 CN201420598407U 20141016

Probable Assignee: CHENGDU NASHUO TECHNOLOGY CO

Assignee(s): (std): CHENGDU NASHUO TECHNOLOGY CO

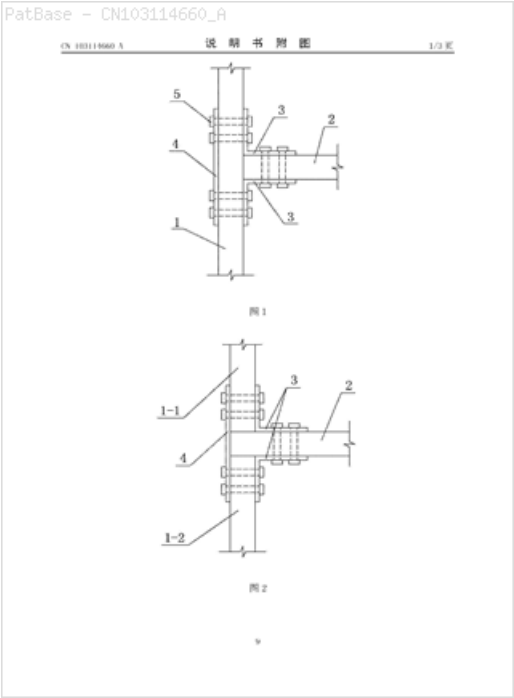
Assignee(s): CHENGDU SATISFIED SEOK TECHNOLOGY CO

Inventor(s): (std): HUANG BO

Title: PANEL POINT STRUCTURE OF STEEL-BAMBOO COMBINED WALL AND STEEL-BAMBOO COMBINED FLOOR SLAB AND PROCESSING METHOD THEREOF

Abstract: The invention discloses a panel point structure of a steel-bamboo combined wall and a steel-bamboo combined floor slab. The panel point structure of the steel-bamboo combined wall and the steel-bamboo combined floor slab comprises the steel-bamboo combined wall and the steel-bamboo combined floor slab. The panel point structure of the steel-bamboo combined wall and the steel-bamboo combined floor slab is characterized in that the steel-bamboo combined wall is perpendicular to the steel-bamboo combined floor slab, steel angles are respectively arranged between the upper surface and the lower surface of the end of the steel-bamboo combined floor slab and the inner wall face of the steel-bamboo combined wall, connecting steel plates are arranged on the position, rightly faces the steel angles, on the outer wall face, the steel-bamboo combined floor slab is fixedly connected with the steel angles on the upper surface and the lower surface of the steel-bamboo combined floor slab through high-strength bolts, and the steel-bamboo combined wall is fixedly connected with the steel angles and the connecting steel plates through high-strength bolts. The panel point structure of the steel-bamboo combined wall and the steel-bamboo combined floor slab has the advantages that the panel point structure is connected through the steel angles, the connecting steel plates and the high-strength bolts, has good panel point connection effect and can obtain higher bearing capacity and stiffness with a small material utilization amount, namely, the energy consumption and self weight are lowered under the premise that the performance of bearing is guaranteed, besides, compared with a traditional reinforced concrete structure, the panel point structure of the steel-bamboo combined wall and the steel-bamboo combined floor slab is fast in construction, capable of achieving industrialized production and on-site assembly and construction and is high in industrialization degree.

Classifications:
International (IPC 8-9): E04B2/00 E04B2/58 E04B5/02 E04B5/10 E04G21/14 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN103114660 A	20130522	CN201310016154	20130116
CN103114660 B	20150128	CN201310016154	20130116

Priority:

CN201310016154 20130116

Probable Assignee: UNIV NINGBO

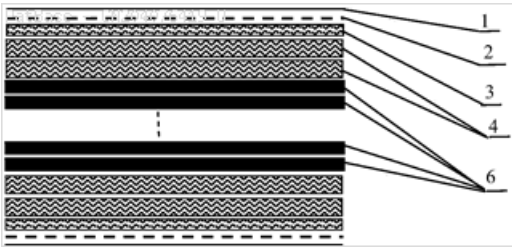
Assignee(s): (std): NINGBO UNIV ; UNIV NINGBO

Inventor(s): (std): DU YONGFEI ; GUO JUN ; HU GUIFEN ; HUANG JUNGUO ; JIANG TIANYUAN ; LI YUSHUN ; SHAN WEI

Title: OUTDOOR COMPOSITE **STRUCTURE** PLATE MADE OF GREEN AND YELLOW REMOVED **BAMBOO**-BUNCH CURTAINS SERVING AS RAW MATERIALS

Abstract: The utility model relates to the technical field of composite plates, and discloses an outdoor composite **structure** plate made of green and yellow removed **bamboo**-bunch curtains serving as raw materials. The outdoor composite **structure** plate comprises an upper surface layer, a lower surface layer and a core layer; the upper surface layer, the core layer and the lower surface layer form a plate blank; the upper surface layer and the lower surface layer respectively comprise a longitudinal texture **bamboo** green **bamboo**-bunch curtain; the core layer comprises longitudinal texture **bamboo**-bunch curtains, longitudinal texture rolled and flattened **bamboo** pieces, longitudinal texture wood veneers, a longitudinal wood jointed board, horizontal texture wood veneers and horizontal texture **bamboo**-bunch curtains. The composite **structure** plate adopts the upper and lower surface layers made of the high-strength **bamboo** green layer **bamboo**-bunch curtains and the core layer made of the flattened **bamboo** pieces, veneers, **bamboo**-bunch curtains or rolled **bamboo** skin curtains, so that the composite plate has the characteristics of high stability, high strength and high wear resistance, also has high mechanical properties, solves the problems that the **bamboo** curtains are processed complexly and the yield cannot meet the demand, can be used as train **floor** boards, vehicle **floor** boards and fences, container baseplates, refrigeration baseplates for ships, and can meet the requirements on outdoor weather resistance and high strength of products.

Classifications:
International (IPC 8-9): B27D 1/04 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN204076419 U	20150107	CN201420532254U	20140916

Priority:

CN201420532254U 20140916

Probable Assignee: ZHUJI GUANGYU BAMBOO IND CO LTD

Assignee(s): (std): ZHUJI GUANGYU BAMBOO IND CO LTD

Assignee(s): ZHUJI CITY GUANGYU BAMBOO IND CO LTD ; ZHUJI GUANGYU BAMBOO IND CO

Inventor(s): (std): XU BIN ; XU WEICHU ; ZHU QIMENG

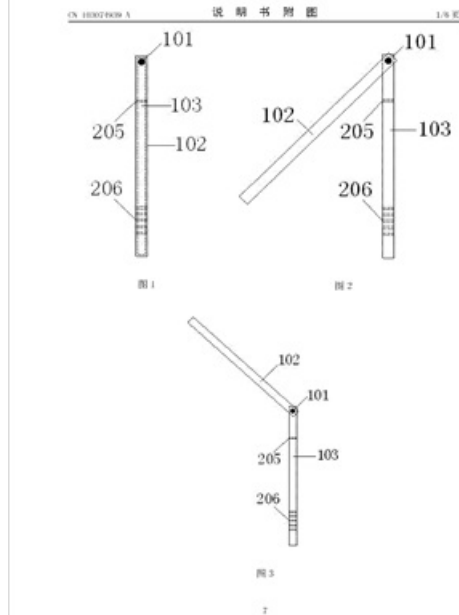
Title: BAMBOO STRUCTURE EMERGENCY HOUSE WITH FOLDABLE PORTAL FRAME

Abstract: The invention discloses a bamboo structure emergency house with a foldable portal frame. The bamboo structure emergency house is characterized by comprising a bamboo structure portal emergency house frame, wherein a roof plate is laid on the roof of the bamboo structure portal emergency house frame, and a plate is inserted between two inclined rods for fixing the side surface of the frame, a fabric is enclosed outside the emergency house, a solar panel is erected on a roof, and the size of an example house is 4500ss1700ss2100mm. The bamboo structure emergency house has the advantages of simple structure, convenience and rapidness in assembly and disassembly, flexible and adjustable space layout because a safe and reliable structure system is adopted in the movable house, material saving, light weight, and convenience for carrying and recovering; and the bamboo structure emergency house can be repeatedly used.

Classifications:

International (IPC 8-9): E04B1/343 E04B1/344 E04B1/58 E04D13/18 E04H1/02 E04H1/12 (Advanced/Invention)

PatBase - CN103074939_R



Family:

Publication number	Publication date	Application number	Application date
CN103074939 A	20130501	CN201310028823	20130125
CN103074939 B	20141231	CN201310028823	20130125
CN203066507 U	20130717	CN201320040895U	20130125

Priority:

CN201310028823 20130125 CN201320040895U 20130125

Probable Assignee: UNIV NANJING FORESTRY

Assignee(s): (std): NANJING FORESTRY UNIV ; UNIV NANJING FORESTRY

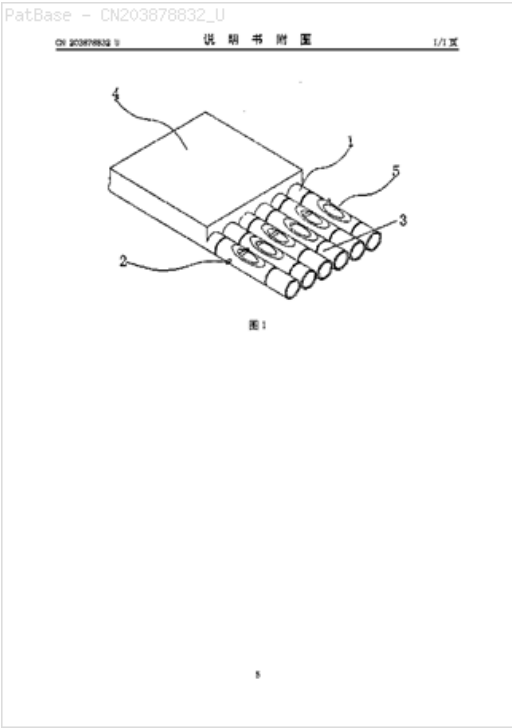
Inventor(s): (std): BIAN YULING ; GAO YONGHUI ; HUANG DONGSHENG ; LI JIANNAN

Title: RAW BAMBOO FLOOR STRUCTURE

Abstract: The utility model discloses a raw bamboo floor structure comprising a raw floor plate integrally formed by serial connection of raw bamboos via a bamboo strip. A mortar layer is casted on the raw bamboo floor plate; a pouring hole is formed in each independent raw bamboo of the raw bamboo floor plate; and each pouring hole is placed in a bamboo cavity, through which the bamboo strip passes. The raw bamboo floor structure is simply structured with convenient use; without effect on original functions, a degree of a connection between raw bamboos and mortar can be increased; and lamination and flaking can be avoided.

Classifications:

International (IPC 8-9): E04B5/16 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203878832 U	20141015	CN201420054389U	20140125

Priority:

CN201420054389U 20140125

Probable Assignee: UNIV XI AN ARCHITECTURE AND TECH

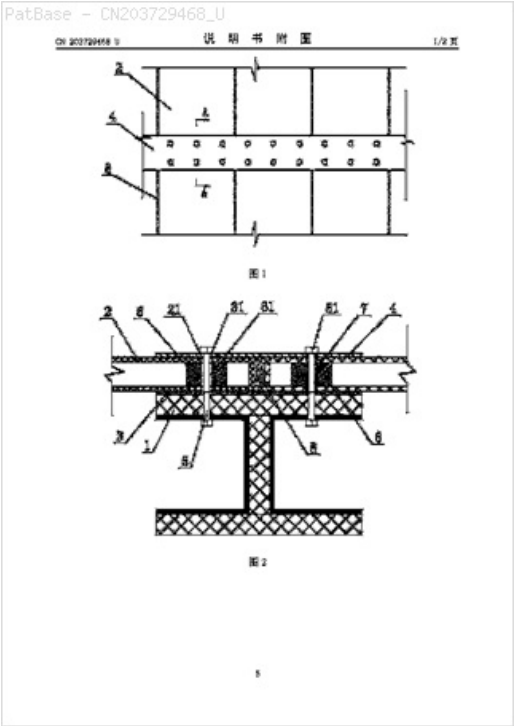
Assignee(s): (std): UNIV XI AN ARCHITECTURE AND TECH ; XI AN UNIV OF ARCHITECTURE AND TECHNOLOGY

Inventor(s): (std): HAO JIPING ; TIAN LIMIN ; WANG YUAN ; ZHAO LINWEI ; ZHENG JIANG ; ZHONG WEIHUI

Title: CONNECTING STRUCTURE FOR STEEL AND BAMBOO COMBINED FLOOR AND STEEL AND BAMBOO COMBINED BEAM

Abstract: The utility model discloses a connecting structure for a steel and bamboo combined floor and a steel and bamboo combined beam. The connecting structure comprises a steel and bamboo combined H-shaped beam and a plurality of steel and bamboo combined floor bodies. The connecting structure is characterized in that the ends of the steel and bamboo combined floor bodies are internally and fixedly provided with a plurality of pieces of connecting cork wood, the connecting cork wood is internally provided with hole channels, upper panels and lower panels of the steel and bamboo combined floor bodies are provided with through holes coaxial with the hole channels, connecting bolts are connected to the positions, corresponding to the connecting cork wood, of the upper end of the steel and bamboo combined H-shaped beam in a threaded mode, and the connecting bolts extend upwards to penetrate through the hole channels and the through holes and are in clearance fit with the hole channels and the through holes. The ends of the connecting bolts are connected with nuts in a threaded mode. Sealing glue is poured into gaps among the hole channels and the connecting bolts. Fine stone concrete or cement paste or mortar is poured into gaps between every two steel and bamboo combined floor bodies connected in a butt joint mode or the gaps between every two steel and bamboo combined floors spliced side by side. The connecting structure has the advantages that connection is firm, the construction is carried out easily and quickly, the construction period is short, cost is low, the weight of the connecting structure is low, the strength is large, building waste and pollution are greatly reduced, and the idea of environment protection is met.

Classifications:
International (IPC 8-9): E04B5/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203729468 U	20140723	CN201420050253U	20140126

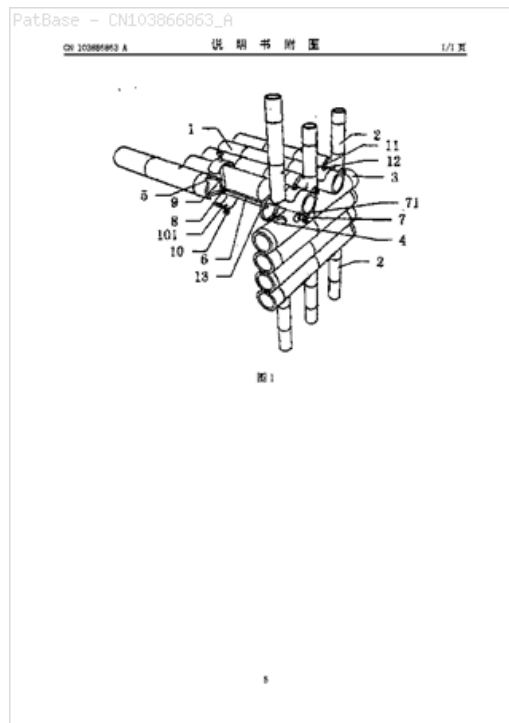
Priority:

CN201420050253U 20140126

Probable Assignee: UNIV NINGBO
Assignee(s): (std): NINGBO UNIV ; UNIV NINGBO
Inventor(s): (std): HU GUIFEN ; LI YUSHUN ; SHAN WEI ; SUN WU ; XU KEKE

Abstract: The invention discloses a novel raw **bamboo** connecting **structure** of a **floor**, a wall and a beam. The novel raw **bamboo** connecting **structure** of the **floor**, the wall and the beam comprises the **floor**, the wall and the beam formed by arraying raw **bamboo**, the end of the **floor** supports on the beam, the raw **bamboo** located at the top end of the beam is provided with inserting holes arranged evenly, the inserting holes are connected in an inserting mode with the raw **bamboo** in the wall, grooves matching with the outer circle surface in the wall is milled inside the root part of the raw **bamboo** of the **floor**, and the raw **bamboo** in the **floor** and the raw **bamboo** in the wall are fixedly connected into a whole through a connecting piece when the raw **bamboo** in the **floor** and the raw **bamboo** in the wall are connected well in a butt joint. The novel raw **bamboo** connecting **structure** of the **floor**, the wall and the beam is simple in **structure**, ingenious in design and convenient to use, the connection among **floor**, the wall and the beam is stable and reliable, the connection strength and the stability among the **floor**, the wall and the beam can be effectively increased, the overall stretching resistance is improved, so that the overall seismic resistance of a raw **bamboo structure** building is further improved, and the novel raw **bamboo** connecting **structure** of the **floor**, the wall and the beam is good for further popularization.

International (IPC 8-9): E04B1/26 E04B1/38 (Advanced/Invention)



Publication number	Publication date	Application number	Application date
■ CN103866863 A	20140618	CN201410030212	20140122

CN201410030212 20140122

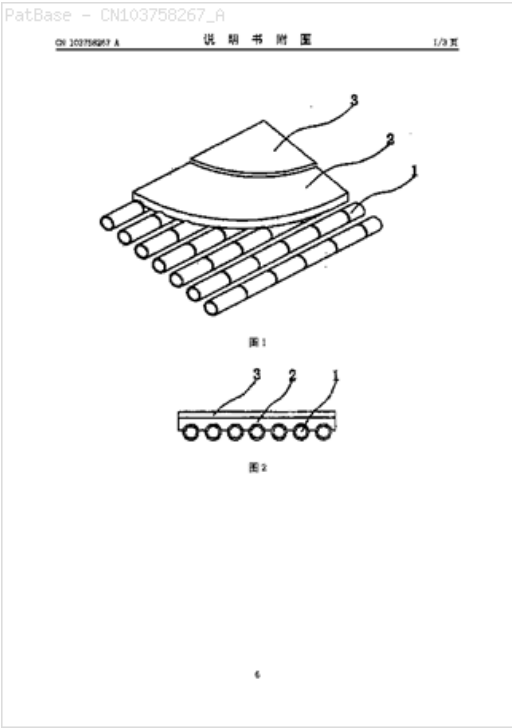
Assignee(s): (std): UNIV XI AN ARCHITECTURE AND TECH ; XI AN UNIV OF ARCHITECTURE AND TECHNOLOGY

Inventor(s): (std): HAO JIPING ; TIAN LIMIN ; WANG YUAN ; ZHAO LINWEI ; ZHENG JIANG ; ZHONG WEIHUI

Title: **FLOOR STRUCTURE** FOR RAW **BAMBOO** STRUCTURAL SYSTEM

Abstract: The invention discloses a **floor structure** for a raw **bamboo** structural system. The **floor structure** for the raw **bamboo** structural system comprises a raw **bamboo floor** beam, wherein the whole raw **bamboo floor** beam is formed by arranging and fixing raw **bamboos** side by side, the raw **bamboo floor** beam is covered with a layer of thermal insulation materials, and the thermal insulation materials are covered with a layer of anti-crack mortar. The **floor structure** for the raw **bamboo** structural system is simple, operation is convenient, the thermal insulation property of a **floor** is improved, seasonal limitation or regional limitation caused by poor thermal insulation property of a **floor** is reduced, the impervious performance is high, the overall tensile property of the **floor** is improved due to the fact that the overall tenacity of the raw **bamboos** is high, and the overall anti-seismic effect is not influenced.

Classifications:
International (IPC 8-9): E04B5/43 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
 CN103758267 A	20140430	CN201410030214	20140122

Priority:

CN201410030214 20140122

Probable Assignee: UNIV XI AN ARCHITECTURE AND TECH

Assignee(s): (std): UNIV XI AN ARCHITECTURE AND TECH ; XI AN UNIV OF ARCHITECTURE AND TECHNOLOGY

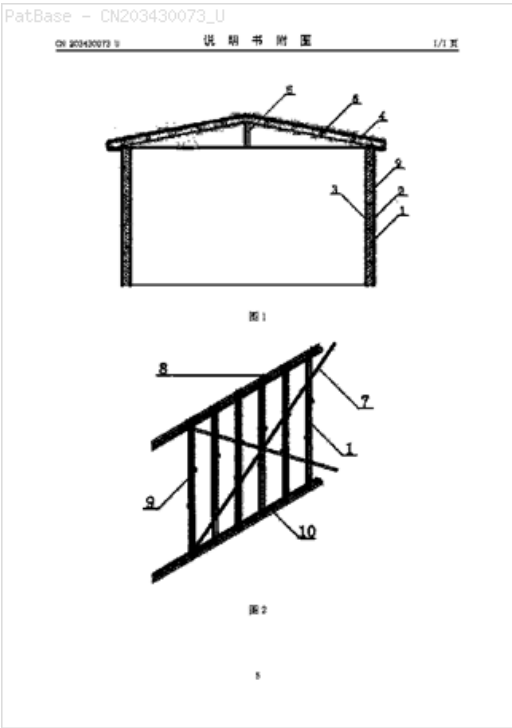
Inventor(s): (std): ZHONG WEIHUI ; ZHENG JIANG ; ZHAO LINWEI ; TIAN LIMIN ; HAO JIPING

Title: CONVENTIONAL HOUSE OF NOVEL STEEL FRAME **BAMBOO STRUCTURE**

Abstract: The utility model provides a conventional house of a novel steel frame **bamboo structure**. The conventional house comprises wallboards, more than four steel stand columns, more than two house frames fixed to the steel stand columns, purlines fixed between the house frames and **roof** panels fixed to the purlines. The conventional house is characterized in that an upper guide rail and a lower guide rail are arranged between the steel stand columns, the upper guide rail and the lower guide rail are perpendicular to the steel stand columns, the two ends of the upper guide rail and the two ends of the lower guide rail are fixed to the steel stand columns, a plurality of round **bamboo** bars are vertically fixed between the upper guide rail and the lower guide rail, two wooden inclined struts are fixed to the round **bamboo** bars, and the wallboards are fixed to the round **bamboo** bars. Through the technical scheme, the conventional house of the novel steel frame **bamboo structure** combines the advantages of a steel frame and a **bamboo structure**, and has the advantages of being easy and convenient to **construct**, low in manufacturing cost and good in earthquake resistance.

Classifications:

International (IPC 8-9): E04B1/98 E04H1/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203430073 U	20140212	CN201320517968U	20130823

Priority:

CN201320517968U 20130823

Probable Assignee: YUNNAN HUIFENG CONSTRUCTION INVESTEMENT GROUP CO LTD

Assignee(s): (std): YUNNAN HUIFENG CONSTRUCTION INVESTEMENT GROUP CO LTD

Assignee(s): YUNNAN HUIFENG CONSTRUCTION INVESTEMENT GROUP CO

Inventor(s): (std): CHEN JIJIANG