

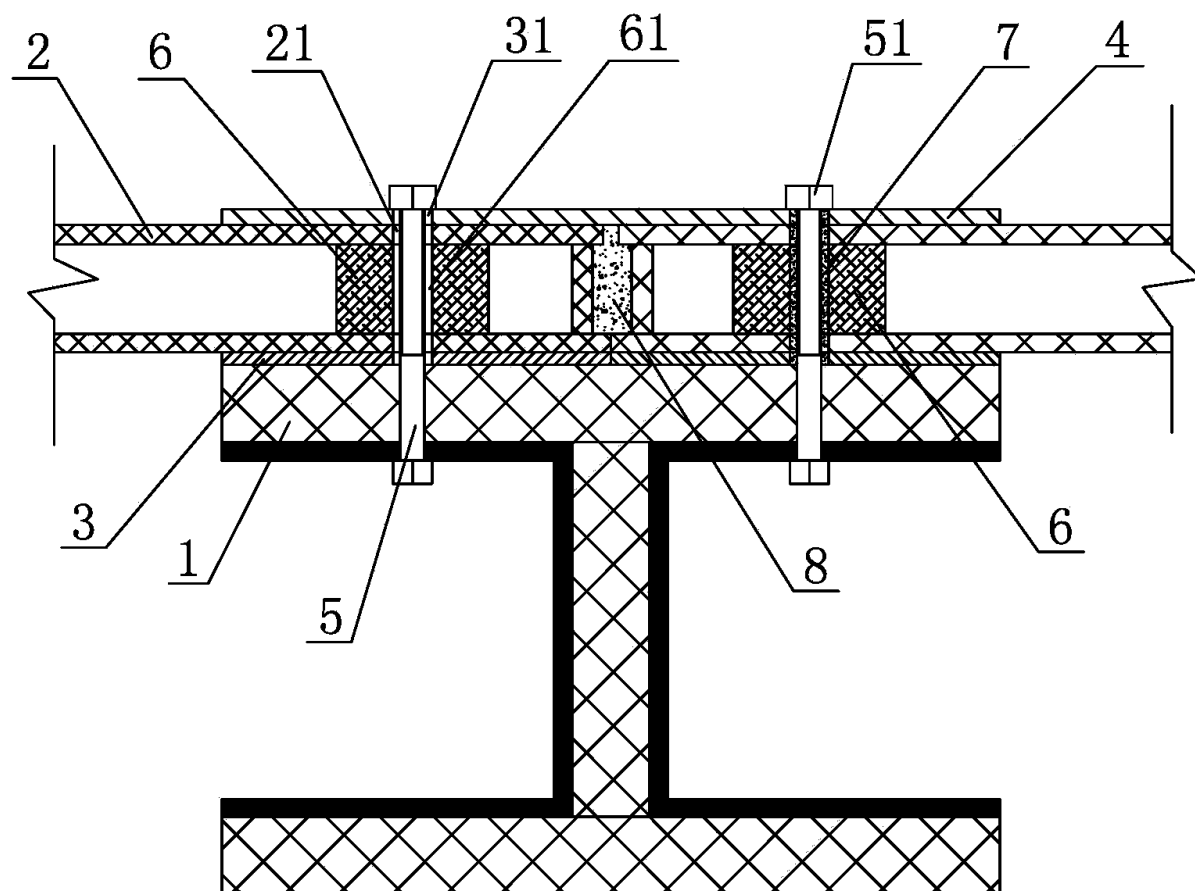
10 Documents

Publication numbers	Title	Current assignees
CN203729468U U	Connecting structure for steel and bamboo combined floor and steel and bamboo combined beam	NINGBO UNIVERSITY
JP07216980 A	Method of assembling bamboo unit house	KUDO INDUSTRY BUSINESS
CN103758267 A	Floor structure for raw bamboo structural system	XI AN UNIVERSITY OF ARCHITECTURE & TECHNOLOGY
JP5500471 B1	Bamboo reinforcement concrete structure with use of solid wood decorative driving-type mold and bamboo	MIFUJI MASAYASU
CN102518213 A	Inclined raw bamboo beam and horizontal supporting wood beam bolt joint and manufacturing method thereof	KUNMING UNIVERSITY OF SCIENCE & TECHNOLOGY
CN1963056 A	Bamboo residential building	HUNAN UNIVERSITY
CN101408039 A	Bamboo -wood mixed structure of house architecture	KUNMING UNIVERSITY OF SCIENCE & TECHNOLOGY
CN201128950U Y	Fast-fabricated bamboo house	HUNAN UNIVERSITY
CN101967852 A	Raw bamboo structure building system and manufacturing method	BAI JIANGUO
CN101691785 A	Building method of bamboo structure house with open internal wall	LI DENGMAN

Family 1/10 - FAMPAT - ©Questel

Title

(CN203729468U)

Connecting **structure** for steel and **bamboo** combined **floor** and steel and **bamboo** combined **beam****Images****Publication data including kind & date**

CN203729468

U

2014-07-23

CN203729468U

**Abstract**

(CN203729468U)

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.

Inventors

HU GUIFEN

LI YUSHUN

DAN WEI

XU KEKE

SUN WU

Latest standardized assignees - inventors removed

NINGBO UNIVERSITY

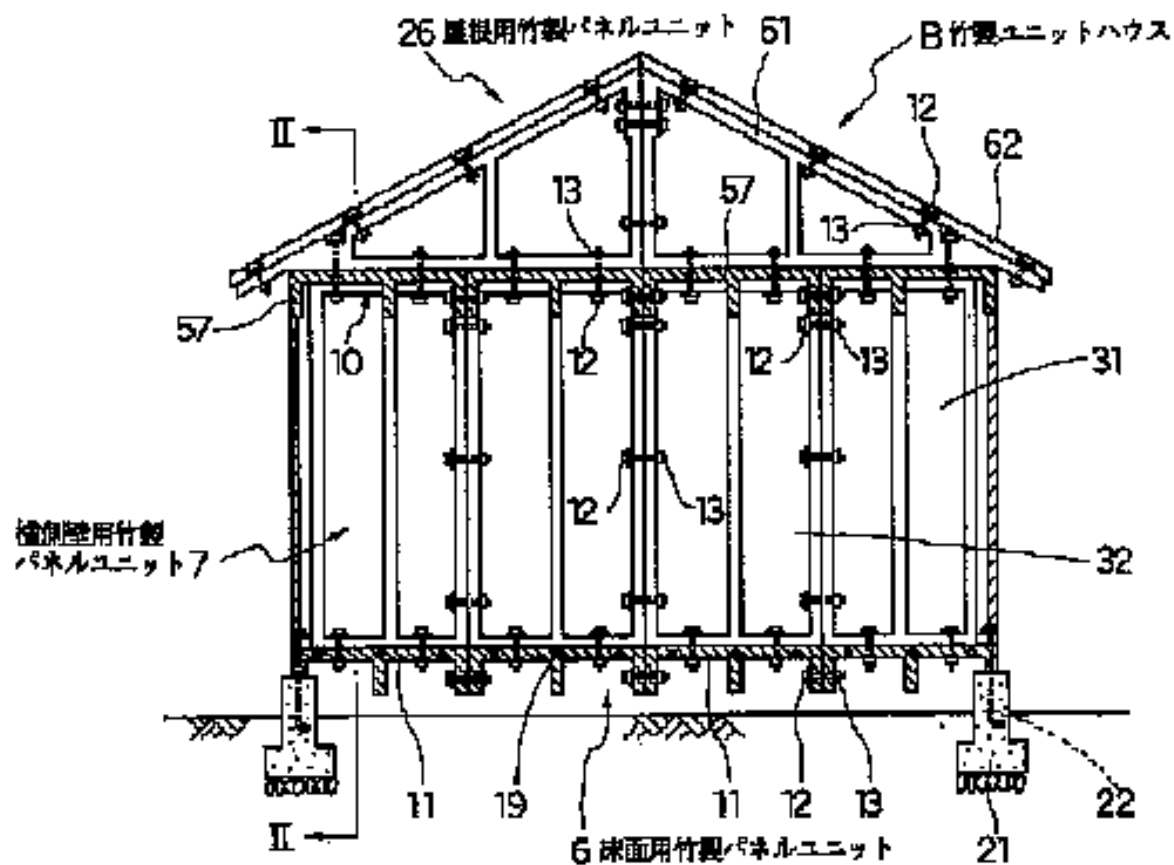
Family 2/10 - FAMPAT - ©Questel

Title

(JP07216980)

Method of assembling bamboo unit house

Images



Publication data including kind & date

JPH07216980	A	1995-08-15	JP07216980
CN1115350	A	1996-01-24	CN1115350
JP2662716	B2	1997-10-15	JP2662716
CN1076777	C	2001-12-26	CN1076777C



Abstract

(JP2662716)

PURPOSE: To greatly shorten a **construction** period and to sharply reduce **construction** cost by a method wherein number of assembling members is made smaller, strength of the members is increased, coating of wall is not required, and electric wiring work and water supply piping work can be performed simultaneously. CONSTITUTION: **Bamboo** panel units 6 for

floor surface, bamboo panel units 7, 8 for side wall, bamboo panel units 9 for partition, bamboo panel units 10 for ceiling, and bamboo panel units 26 for roof are prepared, and the units 6 are mounted on a foundation concrete and the units 7, 8 and the units 9 are placed and connected together on the units 6. The units 10 are disposed on the units 7, 8 and the units 9 and connected together, while the units 26 are placed on the units 10 so as to be connected thereto.

Inventors

KUMON SHIGETOMI

Latest standardized assignees - inventors removed

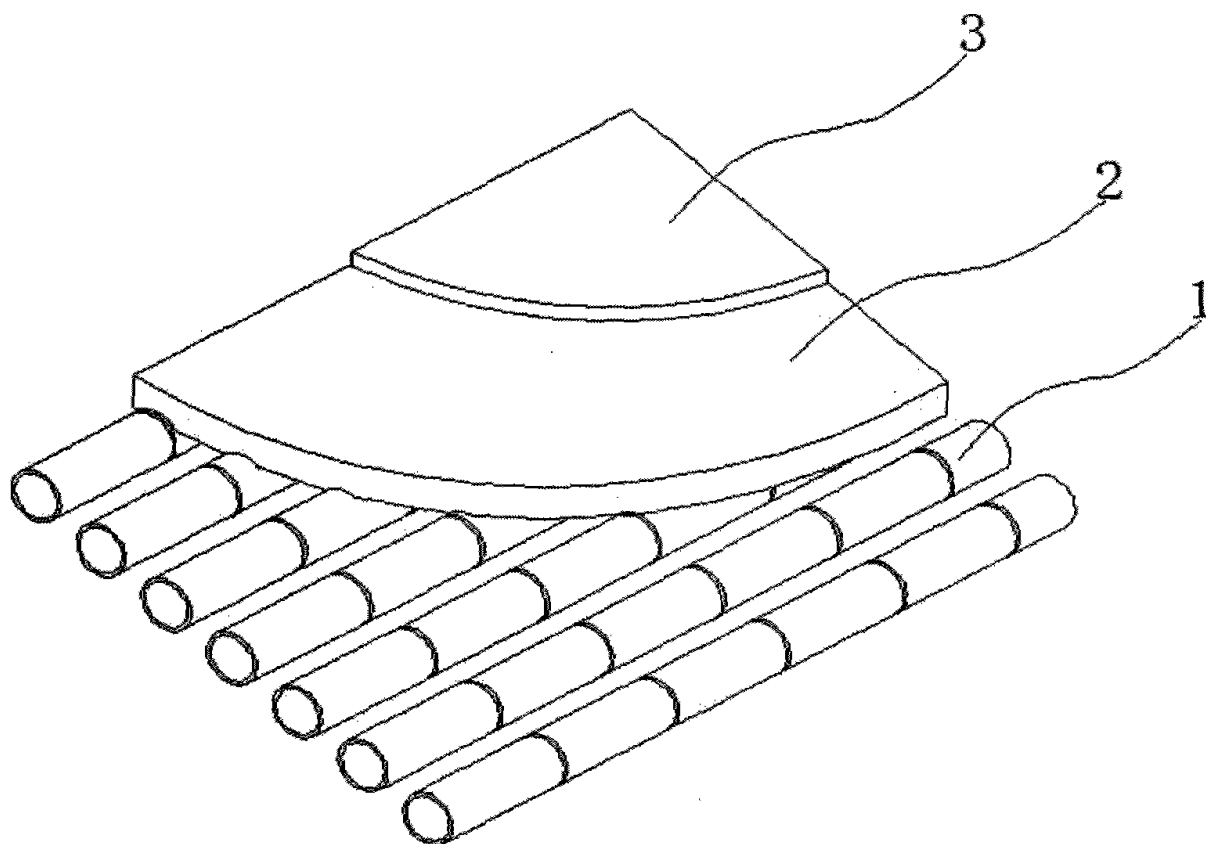
KUDO INDUSTRY BUSINESS

Family 3/10 - FAMPAT - ©Questel

Title

(CN103758267)

Floor structure for raw bamboo structural system

Images**Publication data including kind & date**

CN103758267

A

2014-04-30

CN103758267

**Abstract**

(CN103758267)

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.

Inventors

HAO JIPING

TIAN LIMIN

ZHAO LINWEI

ZHONG WEIHUI

ZHENG JIANG

Latest standardized assignees - inventors removed

XI AN UNIVERSITY OF ARCHITECTURE & TECHNOLOGY

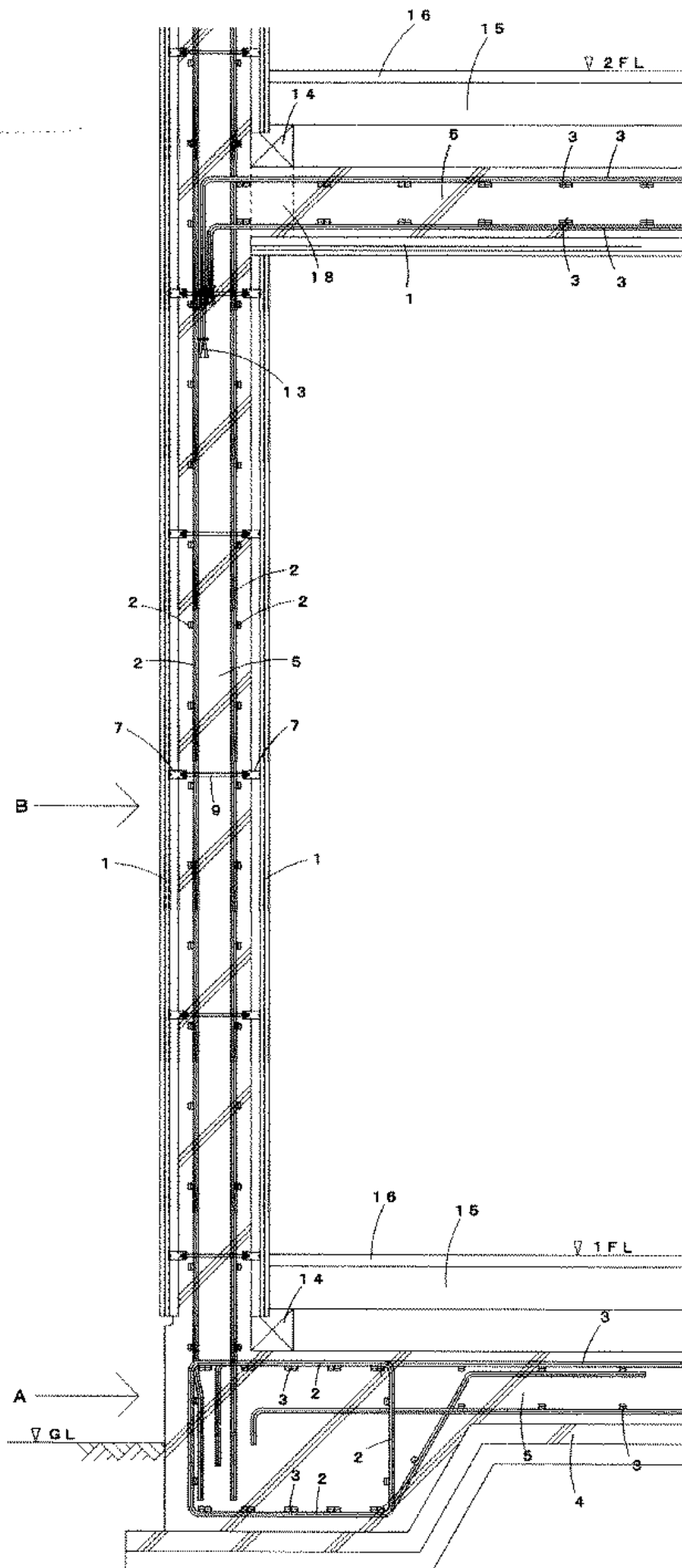
Family 4/10 - FAMPAT - ©Questel

Title

(JP2015074916)

Bamboo reinforcement concrete **structure** with use of solid wood decorative driving-type mold and **bamboo**

Images



Publication data including kind & date[JP5500471](#)

B1 2014-05-21 JP5500471

[JP2015074916](#)

A 2015-04-20 JP2015074916

**Abstract**

(JP2015074916)

PROBLEM TO BE SOLVED: To provide a **bamboo** reinforcement concrete **structure** with use of solid wood decorative driving-type mold and **bamboo**, which constitutes a **bamboo** reinforcement **construction**. SOLUTION: A **bamboo** reinforcement concrete **structure** with use of a solid wood decorative driving-type mold and **bamboo** is characterized by constructing a **bamboo** reinforcement concrete body B in such a way that: an internal mold formwork is formed, on a **bamboo** reinforcement concrete foundation skeleton A, with a solid wood decorative driving-type mold 1 which is provided with a spline-insertion groove 6 on both side faces of its connection parts, by using a supporting metal fitting 7 and a spline 8; bar arrangement of the skeleton is completed with use of a **bamboo** reinforcement 2 that is made of two **bamboo** sticks pasted together with their skin portions facing outwards, and a W **bamboo** reinforcement 3 that is obtained by pasting side faces of two **bamboo** reinforcements 2 on each other; then, the formwork is completed by a conventional separator 9 that is inserted with pressure and bound to the supporting metal fitting 7 provided on a solid wood decorative driving-type mold 1 on inner and outer walls; and concrete 5 is cast and solidifies.

Inventors

Masayasu Mihito

Mito Machiko

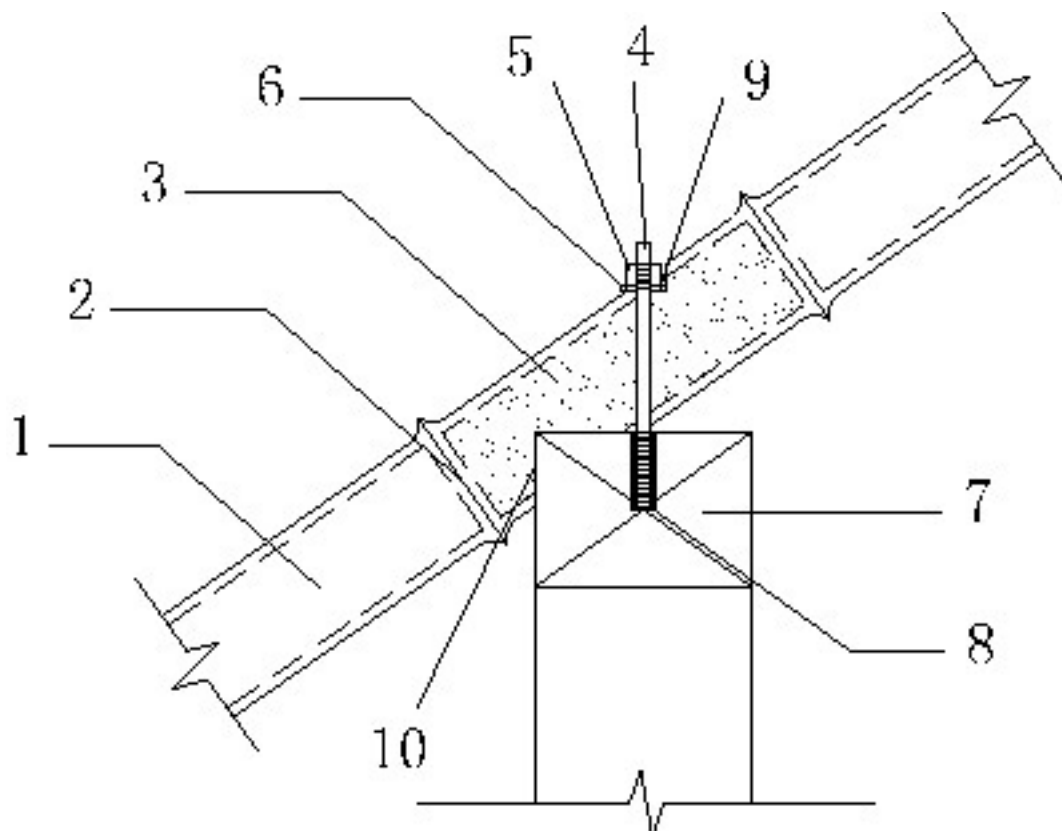
Tomoyo Kitamura

Naoyo Yokohata

Family 5/10 - FAMPAT - ©Questel

Title

(CN102518213)

Inclined raw **bamboo beam** and horizontal supporting wood **beam bolt** joint and manufacturing method thereof**Images****Publication data including kind & date**[CN102518213](#)

A 2012-06-27 CN102518213

Abstract

(CN102518213)

The invention relates to an inclined raw bamboo beam and horizontal supporting wood beam bolt joint and a manufacturing method thereof, which belong to the technical field of building engineering. An inclined raw bamboo beam is fixedly connected with a horizontal supporting wood beam in a crossed manner to form a joint, a bolt is fixedly connected at the joint, and high-strength gypsum is filled in an inner cavity of a raw bamboo beam joint range. The raw bamboo cavity in the joint range is filled by the high-strength gypsum and plugged by a partition board, an upper notch and a lower notch are cut on the raw bamboo cavity via a cutting machine, and a bolt hole is drilled on the raw bamboo cavity by an electric drill. A hole is drilled at a corresponding position of the top of a horizontal supporting wood beam, adhesive is injected into the hole, and the lower portion of the bolt is screwed in the hole. After the adhesive is solidified completely, the inclined raw bamboo beam is mounted in place, the bolt is inserted in the drilled hole on the inclined raw bamboo beam, a metal gasket is mounted, a nut is screwed down, and accordingly manufacture of the inclined raw bamboo beam and horizontal supporting wood beam bolt joint is finished. The bolt joint is manufactured and formed by joint filling and connecting materials including the high-strength gypsum, the bolt and the like. In addition, the inclined raw bamboo beam and horizontal supporting wood beam bolt joint and the manufacturing method thereof have the advantages that construction efficiency is high, required materials and components are simple and easy to be purchased, economical efficiency and practicality are realized, and the like.

Inventors

BO WENFENG

WANG YAJING

Latest standardized assignees - inventors removed

KUNMING UNIVERSITY OF SCIENCE & TECHNOLOGY

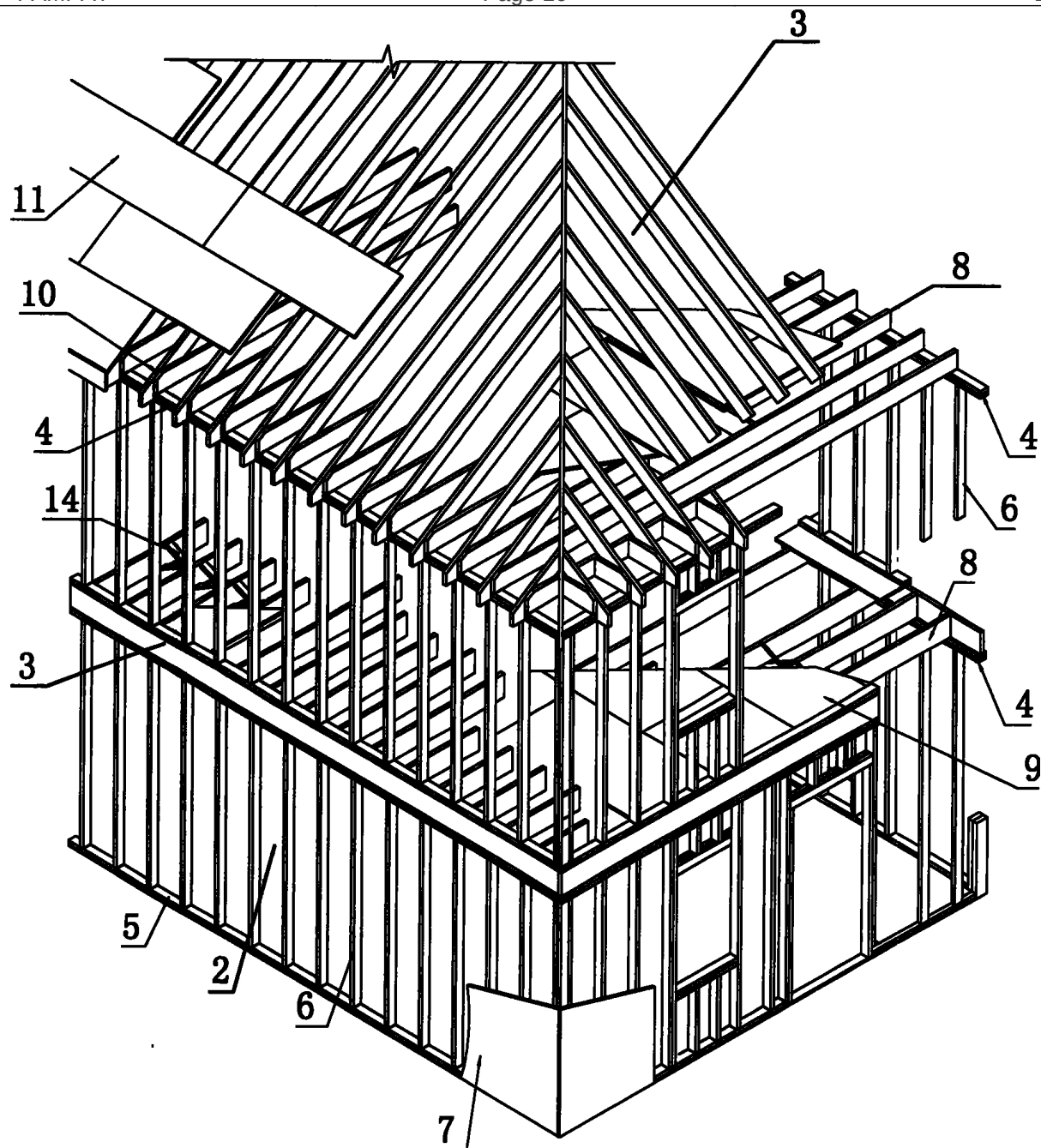
Family 6/10 - FAMPAT - ©Questel

Title

(CN1963056B)

Bamboo residential building

Images



Publication data including kind & date

CN1963056	A	2007-05-16	CN1963056
CN1963056	B	2010-10-06	CN1963056B



Abstract

(CN1963056B)

The invention discloses a **bamboo** domestic architecture; it includes foundation, walls, **floor** and **roof** one by one from the bottom to the top. Said foundation is **bamboo** concrete or armored concrete **structure**, the wall and the **floor** components use **bamboo** component or **bamboo** and wood assembly, the perimeter of **floor** is supported by the wall, the **bamboo** component of said walls comprises of **beam**, bottom **beam**, wall pillar installed between the **beam** and the bottom **beam** as well as the wall surface which covers the outside of wall pillar. The **bamboo** component of said **floor** comprises of many **floor** joists and **floor** surface using **bamboo** as base material, the **floor** joist is placed on the **beam** and the **floor** surface is placed on the **floor** joist. The invention is a simple, low cost, small **construction** difficulties, short **construction** period, better environmental protection and **bamboo** domestic architecture.

Inventors

Xiao Yan

HUANG ZHENGYU

CHEN GUO

Latest standardized assignees - inventors removed

HUNAN UNIVERSITY

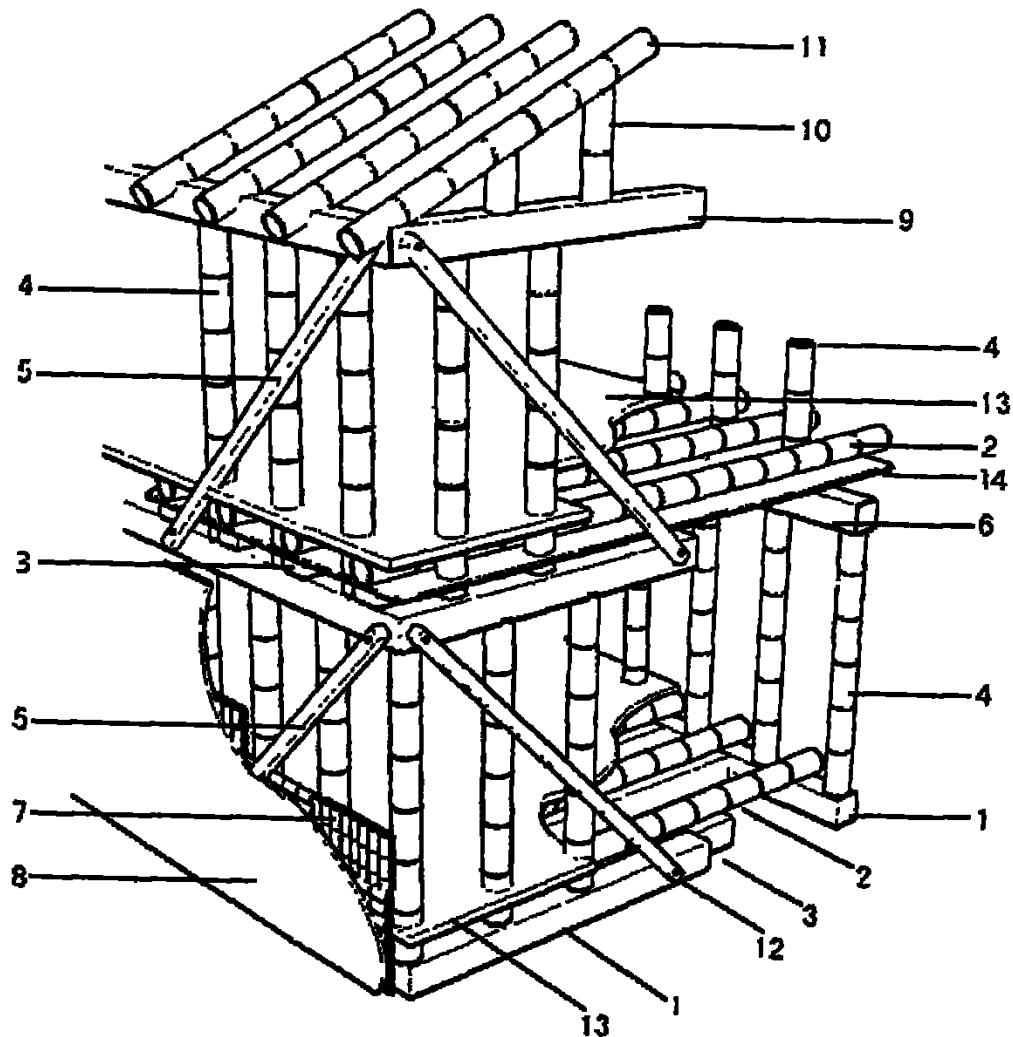
Family 7/10 - FAMPAT - ©Questel

Title

(CN101408039)

Bamboo-wood mixed structure of house architecture

Images



Publication data including kind & date

CN101408039

A 2009-04-15 CN101408039



Abstract

(CN101408039)

The invention relates to the bamboo-wood mixed structure of building construction. A hollow original bamboo rod piece is made into a solid member with processing and strength properties similar to that of the wood by pouring fiber reinforced gypsum and inserting wood core columns into the cavity of the original bamboo, thus fundamentally overcoming the disadvantages that the original bamboo has the hollow structure and is easy to crack; and then the processed original bamboo rod piece is mixed with wood for use, thus forming the light bamboo-wood mixed structure. All original bamboo members of the structure are covered by fireproof material and plates, thus having good fireproof performance, expanding the application range of original bamboo buildings and being capable of building permanent bamboo buildings with at least two floors. The bamboo-wood mixed structure can not only replace brick-concrete structure, reinforced concrete structure and traditional timberwork so as to be used as the main structure of the rural residence, but also can be used for the

construction of scenic spots and reconstruction in disaster areas. The **bamboo**-wood mixed **structure** can significantly reduce the demand for wood of rural housing **construction**, protect forest resources and protect the ecological environment, and has factory production and relatively low manufacturing cost.

Inventors

BO WENFENG

ZHANG NAN

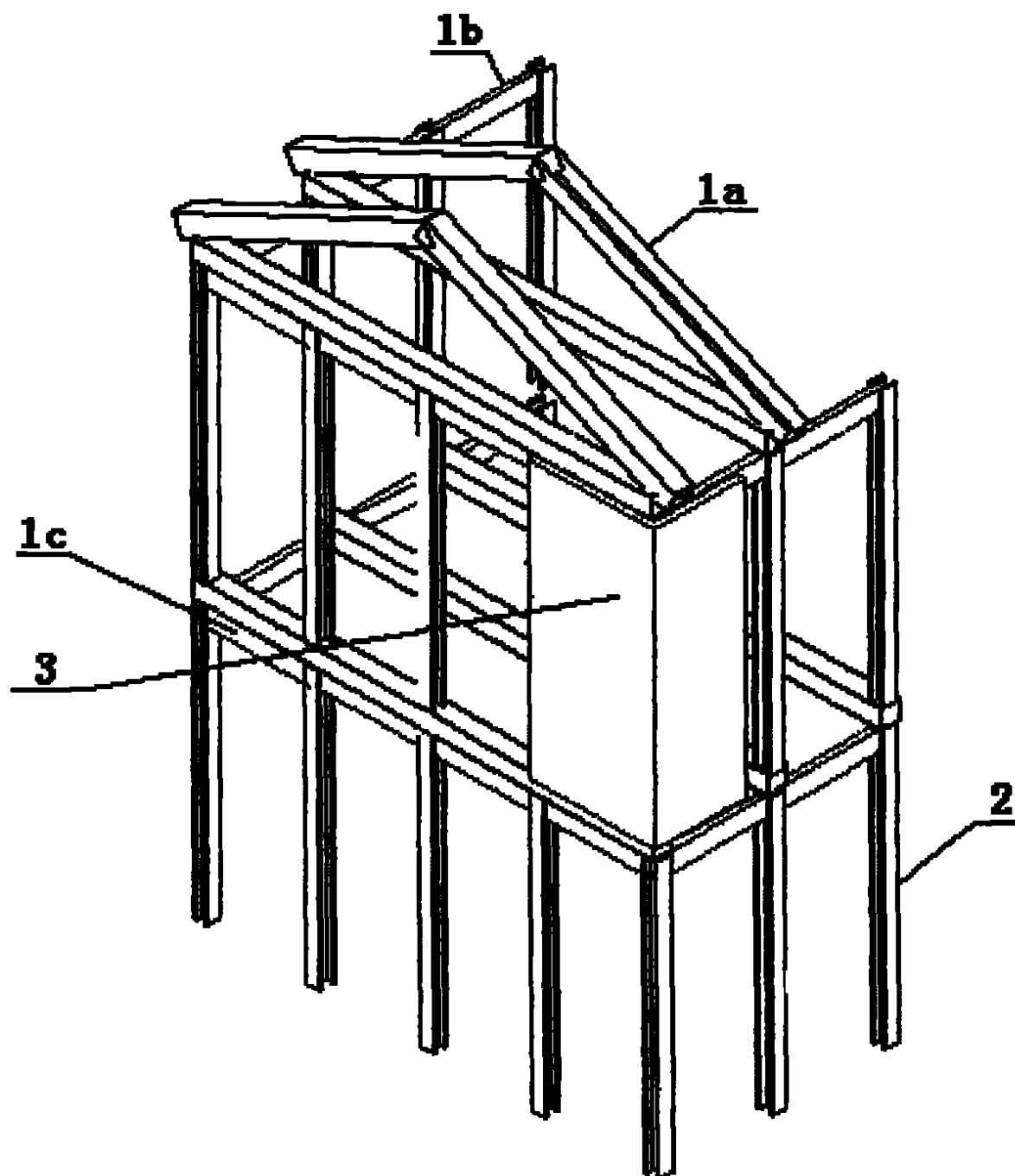
Latest standardized assignees - inventors removed

KUNMING UNIVERSITY OF SCIENCE & TECHNOLOGY

Family 8/10 - FAMPAT - ©Questel

Title

(CN201128950U)

Fast-fabricated **bamboo** house**Images****Publication data including kind & date**

CN201128950

Y

2008-10-08

CN201128950U



Abstract

(CN201128950U)

The utility model relates to a quickly assembled **bamboo** house that comprises a **beam**, a column, a composite slab, an external wall surface and a **roof** waterproof **structure**; the **beam** is a **bamboo beam** made by bonding a **bamboo** plywood and a binder, and comprises a **floor beam**, a **roof frame beam** and a connecting **beam**; the **bamboo** column system is made by connecting a **bamboo** plywood, an angle steel and a **bolt**, and is used as the framework of the composite wall on the external wall; the bearing component of the composite slab can have a wood framework or a **bamboo** framework; the external panel is a **bamboo** plywood; the external panel is a gypsum board, a **bamboo** plywood or a wood plywood, and can be used as a wall body, a **floor** or a **roof** top; the external panel is coated by a metal leather in the corners and the edges according to the times of disassembly and assembly, and is provided with a connecting hole. The **bamboo** house has the advantages of capability of being disassembled and assembled a plurality of times, repeated use, light weight, convenient and quick **construction**, security, reliability, wide source of raw materials, no pollution in the production process, excellent seismic performance, corrosion resistance and stability.

Inventors

Xiao Yan

DAN BO

SHE LIYONG

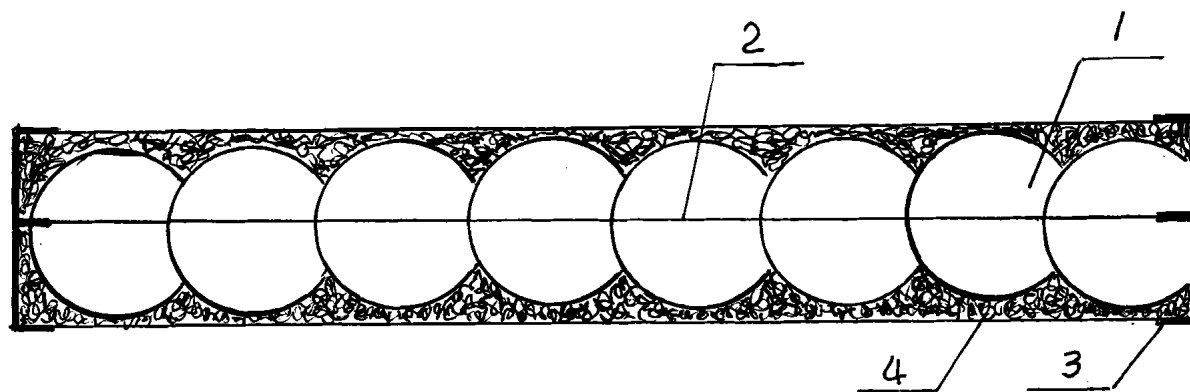
Latest standardized assignees - inventors removed

HUNAN UNIVERSITY

Family 9/10 - FAMPAT - ©Questel

Title

(CN101967852)

Raw **bamboo structure** building system and manufacturing method**Images****Publication data including kind & date**[CN101967852](#)

A 2011-02-09 CN101967852

**Abstract**

(CN101967852)

The invention relates to a raw **bamboo structure** building system and a manufacturing method, which aim to reduce the using amount of cement in house buildings. The technical route comprises that: raw bamboos are made into C-shaped and H-shaped bamboos; the C-shaped and H-shaped bamboos are made into **bamboo** external wall boards, **bamboo** internal wall boards, **bamboo** house panels, 8-shaped bamboos and C-shaped **bamboo** trusses by using different assembling pieces and structural combination forms; and the bamboos are assembled into houses or are combined with plastic shelter films or sunlight boards at the **construction** sites for building **beam**-connected sunlight greenhouses.

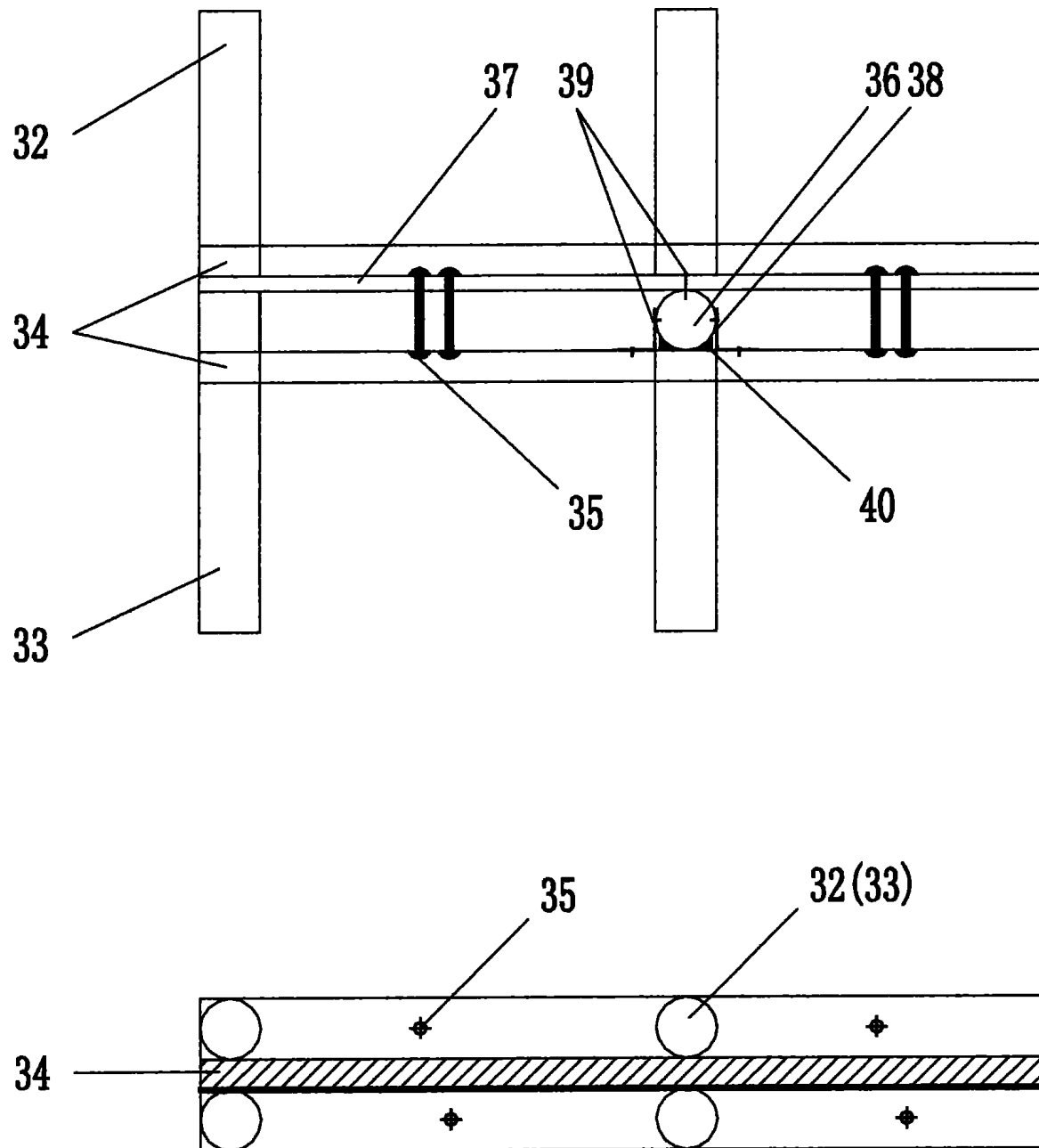
Inventors

BAI JIANGUO

Family 10/10 - FAMPAT - ©Questel

Title

(CN101691785B)

Building method of **bamboo structure** house with open internal wall**Images****Publication data including kind & date**

CN101691785	A	2010-04-07	CN101691785
CN101691785	B	2011-04-13	CN101691785B

**Abstract**

(CN101691785B)

The invention discloses a method for building an open **bamboo structure** house consisting of circular bamboos, square timbers, C-shaped guide rails and connectors. A bearing wall of the house is a dense columnar wall consisting of the circular bamboos and the C-shaped guide rails. The middle of the wall is provided with two X-shaped wooden inclined struts, and the upper and lower ends of the wall are provided with horizontal wooden cross arms. A **floor** joist adopts the circular bamboos, two sides of the joist are symmetrically provided with two groups of L-shaped metal connectors and two triangular wooden clamping blocks, and the upper part of the joist is connected with a **floor** by tapping screws. A **roof** truss also adopts the circular bamboos. The house is economic and practical, is a new path for solving the housing problem of peasants, and also provides a choice for building villas with natural flavor and cultural features for scenic tourist areas.

Inventors

LI DENGMAN