

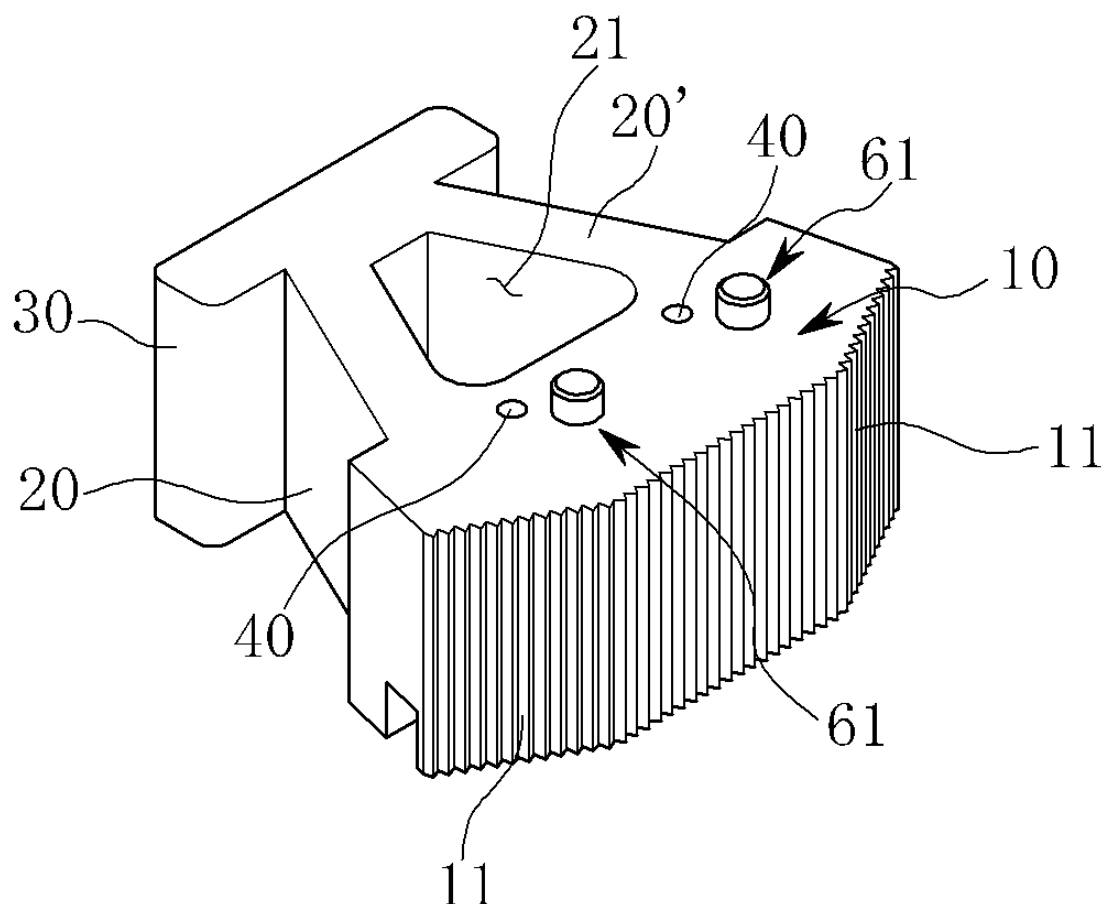
15 Documents

Publication numbers	Title	Current assignees
KR20120128955 A	Aseismatic reinforcement block and the construction method thereof	JANGSUNG INDUSTRIES
CN2228939U Y	Hollow block for masonry of wall	CHEN S
CN108747722 A	Ceramic polished tile surface cold working device based on fog calculation	NINGDE YISHENG INTELLIGENT TECHNOLOGY
CN203961108U U	Double-connected brick	ZHEJIANG TERRA CONSTRUCTION MATERIAL
EP-828899 A1	A block for the mortarless construction of a wall	NOVABRICK INTERNATIONAL
JP2007205076 A	Glass block bearing wall and bearing wall structure using the same	SUMITOMO FORESTRY
JP2016102371 A	Retaining wall structure reinforced by engagement	TOCCON
JP11044076 A	Method for constructing decorative wall surface	HOSONO ISAMU
CN204987901U U	Short petticoat pipe of hot stove in ore deposit	SINOSTEEL JILIN ELECTRO MECHANICAL EQUIPMENT
JP07071046 A	Prefabricated greening earth retaining wall device	MAEDA
CN209280748U U	Installation structure of high-voltage silicon stack	TIANJIN XINSI TONGDA ELECTRONIC TECHNOLOGY
KR101856472 B1	Laminated plant cultivation equipment	PARK, YO SUNG
US4053147 A	Device for introduction of gases into reaction vessels containing fluids	ALUSUISSE
JP2011220101 A	Fence block and fence building method using the same	KANSAN
KR20100043161 A	Construction method for a large-diameter column and a construction method for a frame of a structure using the same using a drying process	SONG, KI YONG

Family 1/15 - FAMPAT - ©Questel

Title

(KR101276761)

Aseismic reinforcement **block** and the construction method thereof**Images****Publication numbers with kind code & date**

KR101276761	B1	2013-06-20	KR101276761
KR20120128955	A	2012-11-28	KR20120128955

**Abstract**

(KR20120128955)

PURPOSE: An aseismic reinforced retaining **wall block** and a construction method thereof are provided to prevent the damage of each insertion groove.

CONSTITUTION: An aseismic reinforced retaining **wall block** comprises a front **wall** portion(10), sidewall portions(20, 20'), a rear **wall** portion(30), a **fitting** hole(40), a joining groove, a connection pin(61), and an elastic spring. The front **wall** portion comprises a plurality of grooves(11) in vertical portions. The **fitting** holes are arranged symmetrically. The joining groove is formed along a cross direction. The connection pin is inserted to the **fitting** hole of a lower **block**. The elastic spring is fixed by a fixing unit.

COPYRIGHT KIPO 2013

Inventors

김천수

KIM, CHUN-SOO

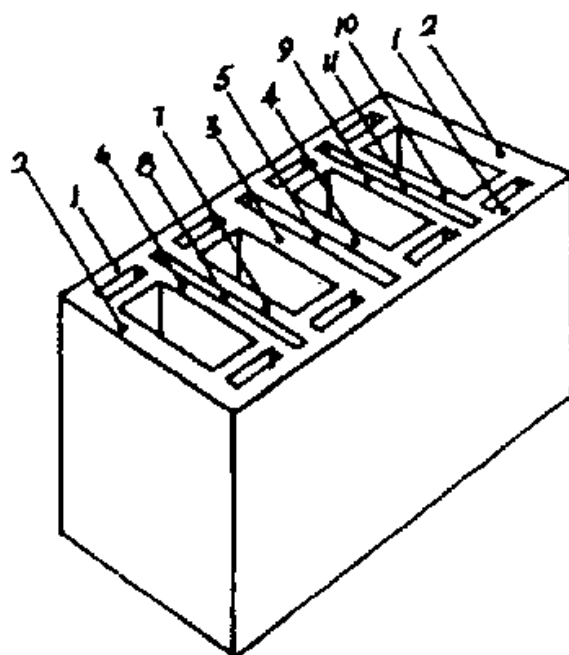
Latest standardized assignees - inventors removed

JANGSUNG INDUSTRIES

Family 2/15 - FAMPAT - ©Questel

Title

(CN2228939U)

Hollow **block** for masonry of **wall****Images****Publication numbers with kind code & date**[CN2228939](#)

Y

1996-06-12

CN2228939U

**Abstract**

(CN2228939)

The utility model provides a hollow **block** for masonry of a **wall**, which is mainly characterized in that the hollow **block** for masonry of a **wall** comprises longitudinal side ribs and transverse side ribs; the one-half parting line or both sides of the one-half parting line and the one quarter parting line of the hollow **block** in the long direction are respectively provided with transverse ribs, and two transverse ribs and the longitudinal side ribs form through holes. One quarter **brick**, three quarters **brick** or one half **brick** with regular cross sections for matching with the integral **brick** can be obtained through cutting and fracturing the longitudinal side ribs on both sides of the through hole. The hollow **block** for masonry of a **wall** can be used for producing, transporting and depositing the hollow blocks, and can be conveniently used for building the **wall**; the hollow

block for masonry of a wall has the advantages of low block disability rate and high quality of building the wall.

Inventors

陈伟

CHEN WEI

Latest standardized assignees - inventors removed

CHEN S

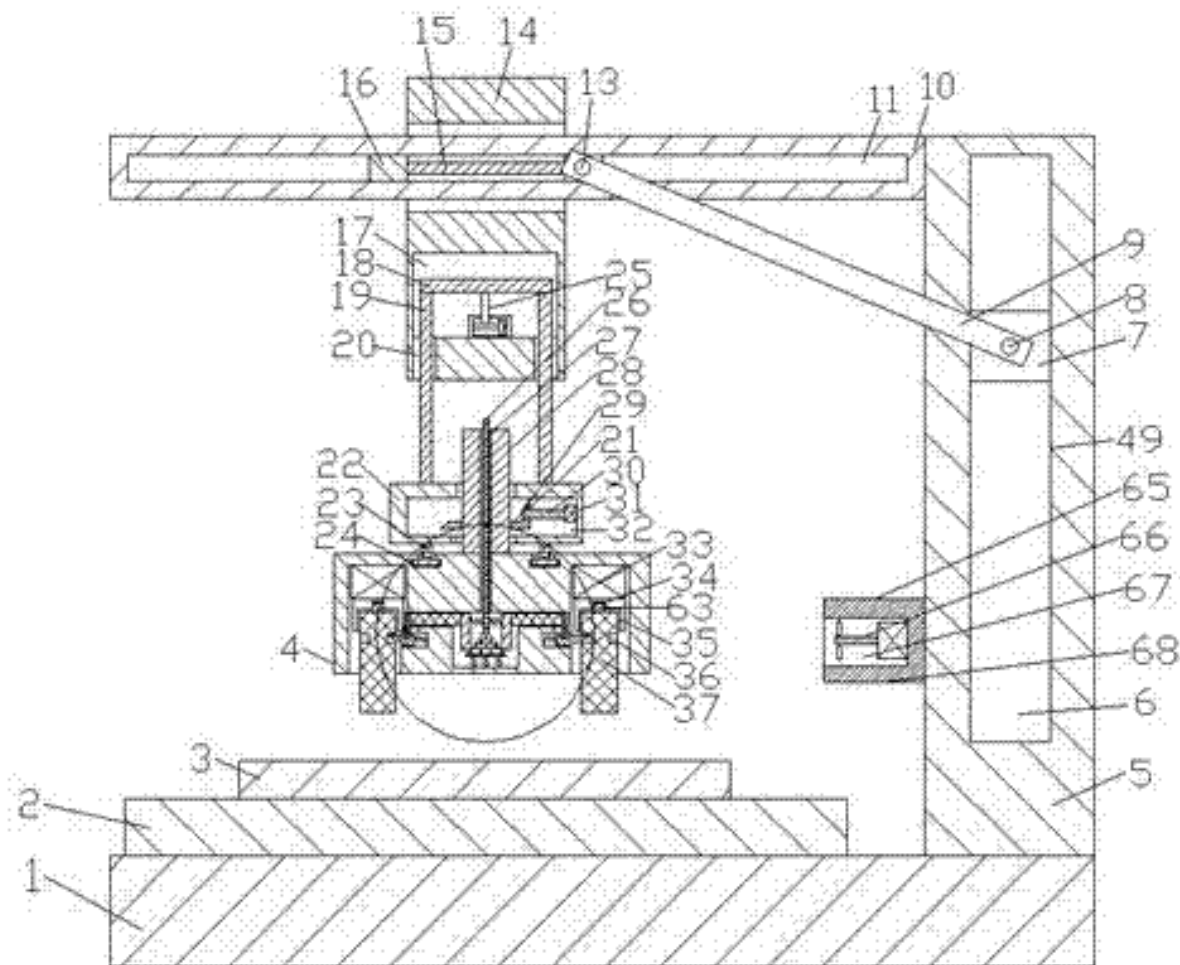
Family 3/15 - FAMPAT - ©Questel

Title

(CN108747722)

Ceramic polished tile surface cold working device based on fog calculation

Images



Publication numbers with kind code & date

CN108747722

A

2018-11-06

CN108747722



Abstract

(CN108747722)

The invention discloses the polished **brick** in porcelain character surface cold working apparatus calculated based on mist, including pedestal, the pedestal upper surface is fixedly connected with a transmission belt, it is fixedly connected with a support **column** on the right side of the pedestal upper surface, an elevating mechanism is provided in the support **column**, the support **column** left side is fixedly connected with a fixed link, it is provided with a latch segment on the upside of the generation processing **brick**, the latch segment lower face is symmetrical set two groups of locking slots, the locking slot is provided with latch segment described in a promotion slot close to the end face at latch segment center and is provided centrally with a promotion space, promotion space left hand end **wall** is symmetrically arranged with a connection space. This apparatus structure is simple, simple operation, in present invention work, abrading **block** can be easily with changing abrading **block** after excessively wearing, cumbersome dismounting assembly need not be carried out, and is

smoothly polished **brick** face under the cooperation of elevating mechanism and hydraulic force mechanism, ensure that the smooth of **brick** face.

Inventors

余芳珺

YU FANGJUN

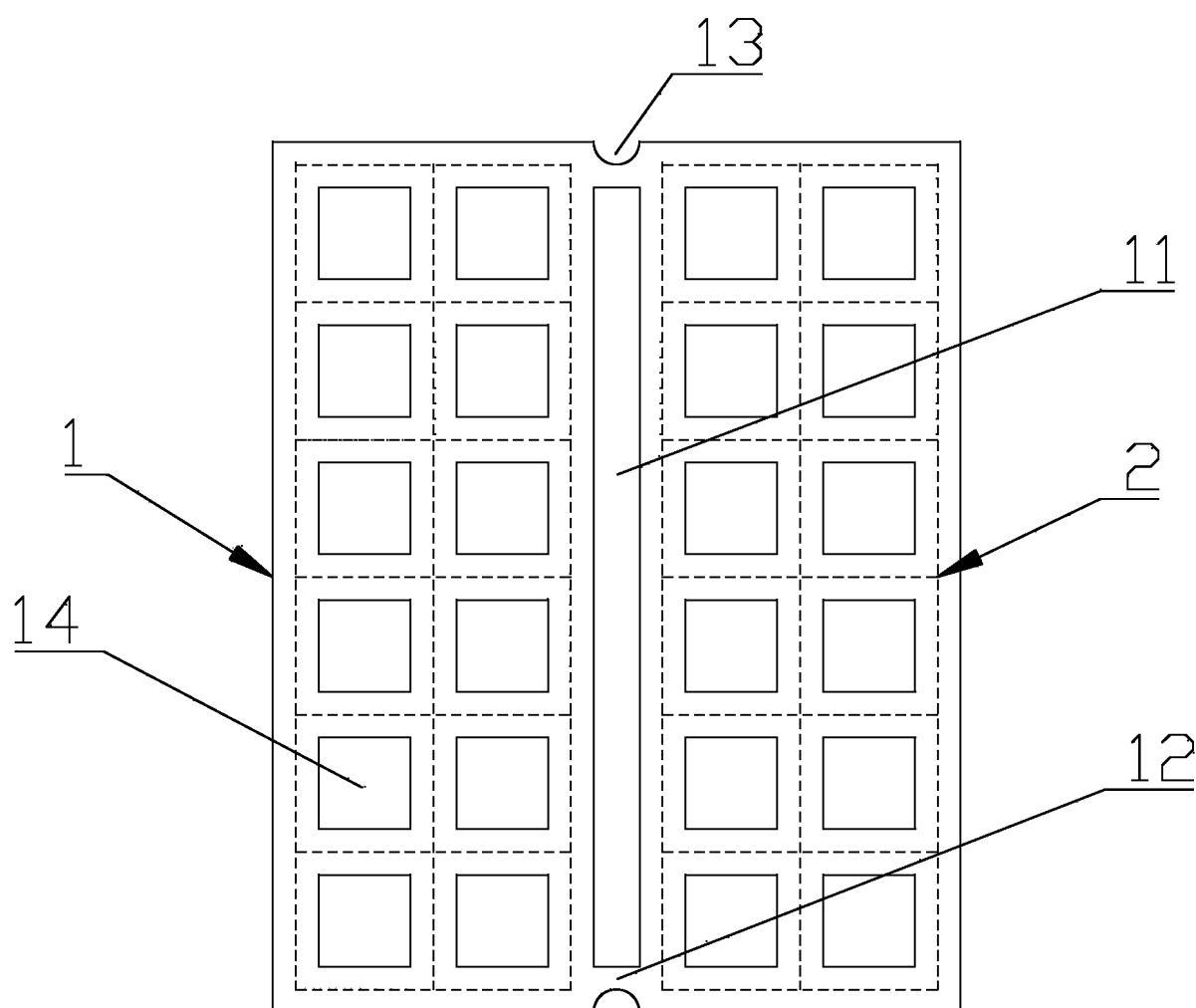
Latest standardized assignees - inventors removed

NINGDE YISHENG INTELLIGENT TECHNOLOGY

Family 4/15 - FAMPAT - ©Questel

Title

(CN203961108U)

Double-connected **brick****Images****Publication numbers with kind code & date**[CN203961108](#)

U

2014-11-26

[CN203961108U](#)**Abstract**

(CN203961108)

The utility model discloses a double-connected **brick** which comprises a **brick** body, wherein two steel bar frames are arranged in the **brick** body side by side and are cuboid; a first through hole is formed in the part, between the two steel bar frames, of the **brick** body and divides the **brick** body into two symmetrical parts, and the two parts of the **brick** body are connected with each other by virtue of a bar part; a through groove is formed in the outer side wall of the bar part. The bar part can be knocked off so that two bricks are formed, and the bar part can be knocked off conveniently by virtue of the groove. In other words, one double-connected **brick** is carried each time, i.e., two common bricks are carried. Under the condition that the **brick** carrying weight is not changed, the piling times of the double-connected bricks is less than that of the bricks in the prior art, the double-connected bricks are conveniently piled by workers, and the piling efficiency of

workers is improved. In addition, the area of the double-connected bricks is at least one time larger than that of the common brick, so that the fitting area among the piled bricks is relatively large, and the piled bricks are not easy to misplace and fall.

Inventors

吴三群

WU SANQUN

徐旭平

XU XUPING

马晓泉

MA XIAOQUAN

董锦荣

DONG JINRONG

李雪娥

LI XUEE

Latest standardized assignees - inventors removed

ZHEJIANG TERRA CONSTRUCTION MATERIAL

Family 5/15 - FAMPAT - ©Questel

Title

(EP-828899)

A block for the mortarless construction of a wall

Images

U.S. PATENT DOCUMENTS

4,711,606	12/1987	Lesing et al.	5,205,875	4/1993	Hemel ,
4,973,821	2/1989	Iwaki	5,279,069	1/1994	Schalla
4,836,215	6/1989	Oswald	5,282,700	2/1994	Rodriguez
4,946,712	6/1991	Glickman	5,337,517	8/1994	Wagenaar
5,057,052	1/1992	Moore	5,349,002	8/1994	Kaczmarek
			5,418,914	7/1995	Romek

Publication numbers with kind code & date

KR100472394	B1	2005-07-01	KR100472394
CA2220413	C	2004-07-27	CA2220413
DE69629372	T2	2004-07-22	DE69629372
HU223385	B1	2004-06-28	HU-223385
ES2205041	T3	2004-05-01	ES2205041
PT828899	E	2003-12-31	PT-828899
DK828899	T3	2003-11-24	DK-828899T
DE69629372	D1	2003-09-11	DE69629372
AT246753	T	2003-08-15	ATE246753
EP0828899	B1	2003-08-06	EP-828899
CN1090267	C	2002-09-04	CN1090267C



RU2172807	C2	2001-08-27	RU2172807				
RO116657	B	2001-04-30	RO-116657				
RO116657	B1	2001-04-30	RO-116657				
PL180242	B1	2001-01-31	PL-180242				
US6108995	A	2000-08-29	US6108995				
HU9802631	A3	2000-02-28	HU9802631				
BR9608996	A	1999-12-14	BR9608996				
AU712639	B2	1999-11-11	AU-712639				
JPH11505907	A	1999-05-25	JP11505907				
HU9802631	A2	1999-03-29	HU9802631				
KR19990022154	A	1999-03-25	KR19990022154				
NZ308425	A	1999-02-25	NZ-308425				
MX9709420	A	1998-10-31	MX9709420				
CN1186529	A	1998-07-01	CN1186529				
PL323783	A1	1998-04-27	PL96323783				
EP0828899	A1	1998-03-18	EP-828899				
TR199701498	T1	1998-02-21	TR199701498				
AU5806996	A	1996-12-18	AU9658069				
CA2220413	A1	1996-12-05	CA2220413				
WO96/38636	A1	1996-12-05	WO9638636				

Abstract

(EP0828899)

A mortarless **wall** of a building structure has a plurality of blocks (1) arranged in successive overlapping courses. Each of the blocks (1) has a top (5), bottom (7), front (9) and rear (11) face disposed between opposed side ends (2, 3). The blocks (1) are able to interlock in the manner of shingles in a mortarless fashion.

Inventors

BOUCHARD MICHEL

LAMBERT PAUL-EMILE

FORTIN MARC

Latest standardized assignees - inventors removed

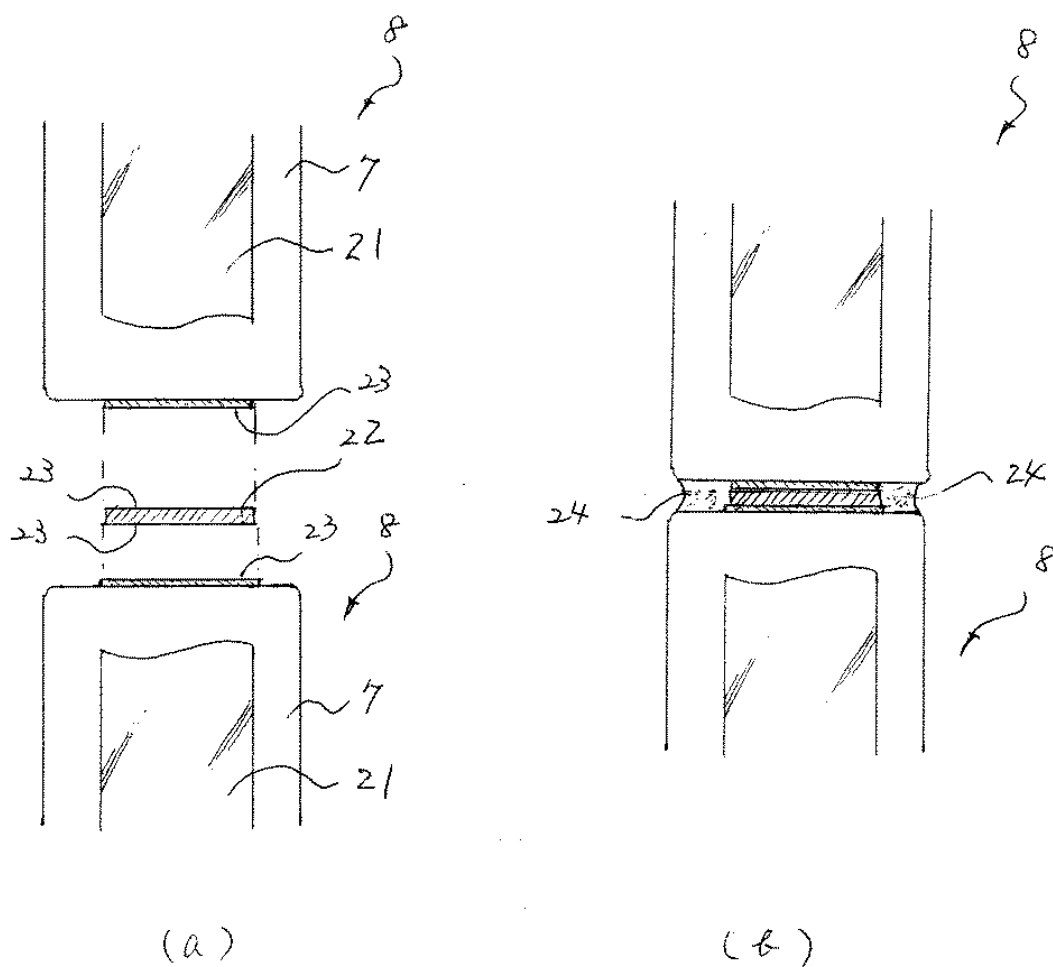
NOVABRICK INTERNATIONAL

Family 6/15 - FAMPAT - ©Questel

Title

(JP2007205076)

Glass **block** bearing **wall** and bearing **wall** structure using the same**Images**

**Publication numbers with kind code & date**

JP4616776

B2 2010-10-29

JP4616776

JP2007205076

A 2007-08-16

JP2007205076

**Abstract**

(JP2007205076)

PROBLEM TO BE SOLVED: To satisfy performance usable as a building structural member, and required for a bearing wall.

SOLUTION: This glass block bearing wall 1 has a glass block wall body 6. The glass block wall body 6 is constituted of

stacking glass **block** panels 8 in five stages by assembling and panelling glass blocks 7 in three stages in five rows. The glass **block** panels 8 are panelled by winding a periphery edge side part of the glass blocks 7 by a stainless steel strip 21. The glass **block** panels 8 and 8 positioned in upper-lower stages are mutually adhered in a state of sandwiching a spacer 22 of applying an epoxy resin adhesive 23 to both surfaces, by applying the epoxy resin adhesive 23 to the stainless steel strip 21 wound on an upper surface of the glass **block** panel 8 positioned in the lower stage, and applying the epoxy resin adhesive 23 to the stainless steel strip 21 wound on an under surface of the glass **block** panel 8 positioned in the upper stage.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

KANAI MASAHIRO

OGURA KENJI

TAKAHASHI MASASHI

Latest standardized assignees - inventors removed

SUMITOMO FORESTRY

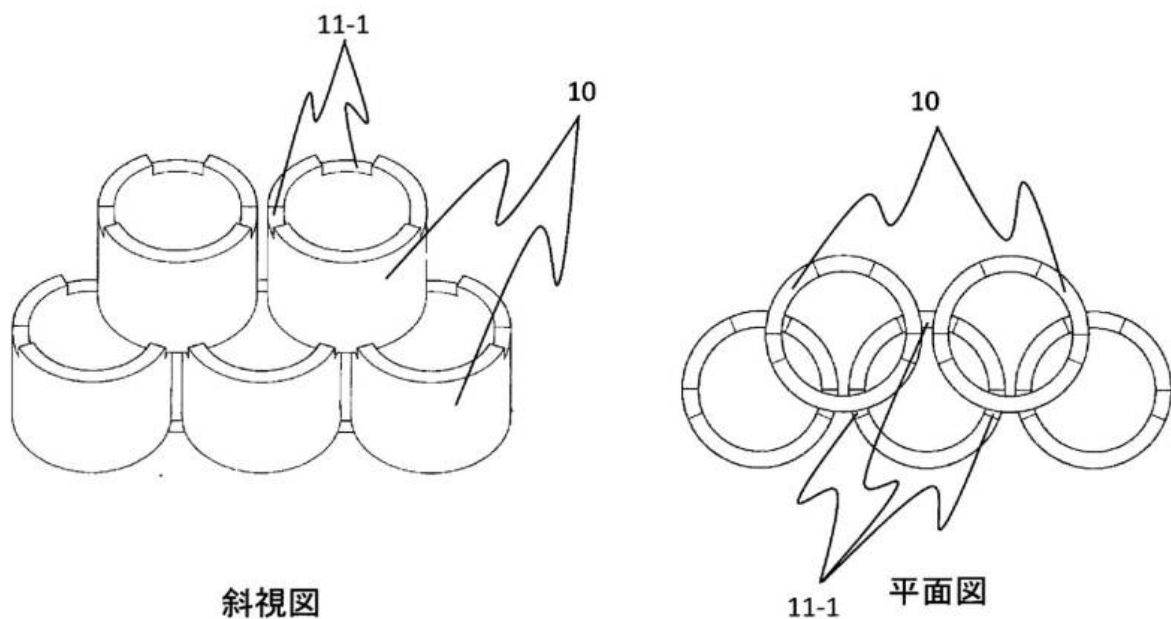
Family 7/15 - FAMPAT - ©Questel

Title

(JP2016102371)

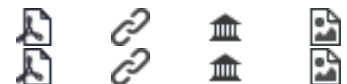
Retaining **wall** structure reinforced by engagement

Images



Publication numbers with kind code & date

JP6444151	B2	2018-12-26	JP6444151
JP2016102371	A	2016-06-02	JP2016102371



Abstract

(JP2016102371)

PROBLEM TO BE SOLVED: To provide a retaining **wall** capable of configuring a three-dimensionally curved slope surface at will, by adopting a retaining **wall block** having a hollow columnar shape.

SOLUTION: A retaining **wall** structure is built by piling retaining **wall** blocks 10 in tiers on a foundation ground, and includes a plurality of retaining **wall** blocks 10 having a hollow columnar shape, and a filler material filled in an inner space of the retaining **wall block** 10 and an outer peripheral space of the retaining **wall block** 10 partitioned by the retaining **wall block** 10 and a slope surface. Retaining **wall** blocks on an upper-tier side and a lower-tier side, among the retaining **wall** blocks 10 that have been piled, are arranged in a zig-zag form. At least three recessed parts 11-1 are formed at a lower edge surface of the retaining **wall block** 10. The at least three recessed parts 11-1 on the lower edge surface of the retaining **wall block**

on the upper-tier side, among the retaining wall blocks 10 that have been piled, are engaged with the upper edge surface of the retaining wall block on the lower-tier side.

SELECTED DRAWING: Figure 2

COPYRIGHT: (C)2016,JPO&INPIT

Inventors

Yasuhiro Iizuka

Yasushi Kono

Latest standardized assignees - inventors removed

TOCCON

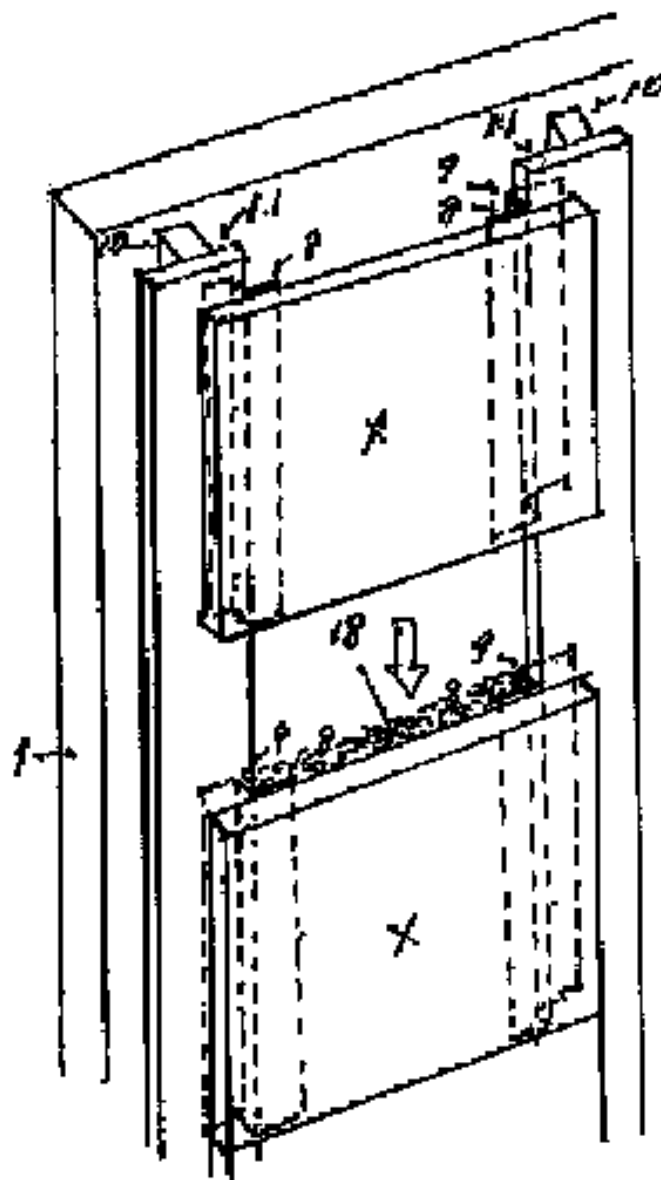
Family 8/15 - FAMPAT - ©Questel

Title

(JP11044076)

Method for constructing decorative wall surface

Images



Publication numbers with kind code & date

JPH1144076

A 1999-02-16

JP11044076



Abstract

(JPH1144076)

PROBLEM TO BE SOLVED: To construct a **wall** or fence, to which a heavy decorative board can be easily mounted, by bonding a metal having a claw to each of a left and right ends on the rear surface of a stone board and engaging the claw with a protrusion of a vertically erected rail, structural **column** or the like to **stack** the stone board. SOLUTION: A metal 8 having a claw 9 is bonded to each of left and right ends on the rear side of a stone board 7 and the claw 9 is engaged with a protrusion 11 of a rail 10 vertically mounted to a **wall** surface 1 so that a stone board is stacked successively. A spray rock wool or the like is applied to the rear side of the board 7 to firmly bond it to the **wall** surface 1 to form a **wall** surface to

which the boards 7 are mounted. And an H-shaped structural **column** is vertically erected on a foundation and the claw 9 of the board 7 is engaged with a protrusion on each of the opposite sides of the **column** to **stack** the board 7 and a foaming-in-place polyurethane or the like is filled into the **column** to form the board 7 on the opposite sides of the **column** into a single body, thereby constructing a fence. And the board 7 is bonded to each side of a lightweight **block**-like spacer such as a foamed polystyrene and a recess is formed on each of the sides thereof so that a structural column can be fitted in the recesses. Thus a **wall** or a fence can be easily constructed.

Inventors

HOSONO ISAMU

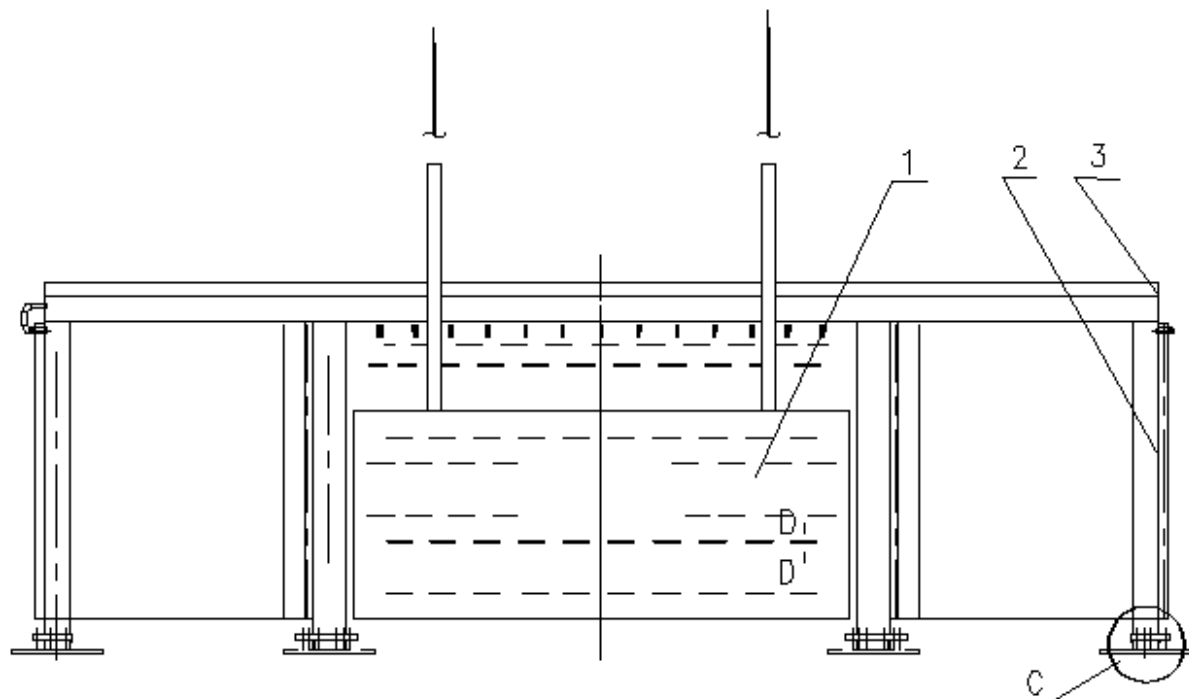
Family 9/15 - FAMPAT - ©Questel

Title

(CN204987901U)

Short petticoat pipe of hot stove in ore deposit

Images



Publication numbers with kind code & date

[CN204987901](#)

U

2016-01-20

[CN204987901U](#)



Abstract

(CN204987901)

The utility model relates to a short petticoat pipe of hot stove in ore deposit, it includes petticoat pipe skeleton, lateral **wall**, lift furnace gate, side skirt, petticoat pipe apron, its characteristics are: lift furnace gate, lateral **wall**, side skirt are divided equally and are do not set up the water -stop sheet, intermittent welding between water -stop sheet and lift furnace gate or lateral **wall** or the side skirt, adjacent edge welded connection base respectively between center apron, peripheral apron or the flue apron, the both sides bottom surface of connecting piece links firmly respectively connects the seat of honour, sets up refractory **brick** between adjacent center apron, peripheral apron or the flue apron respectively, both sides set up the pottery, sets up insulating flange and links firmly, insulating cup jointing on the bolt between, on connecting piece both ends centering apron, peripheral apron, the flue lid joining of plates base, set up refractory **brick** between flue apron or peripheral apron bottom surface and the flue skeleton, on operation platform was arranged in to the stand of petticoat pipe skeleton, the stand base linked firmly with the platform built -in **fitting**, and the stand links firmly with the stand base through base flange, insulating flange.

Inventors

刘利

LIU LI

隋欣

SUI XIN

周宇

ZHOU YU

Latest standardized assignees - inventors removed

SINOSTEEL JILIN ELECTRO MECHANICAL EQUIPMENT

Family 10/15 - FAMPAT - ©Questel

Title

(JP07071046)

Prefabricated greening earth retaining wall device

Images

fitting channel 1 is so placed that the lower end of the earth retaining board 3 positioned upward is positioned downward from the upper end of the earth retaining board 3 positioned downward and, at the same time the rear sides of the **column** boards 2 opposed to each other of each row are connected and fixed with anchors 4 to form a prefabricated greening earth retaining **wall** device.

Inventors

MASUDA YUKIO

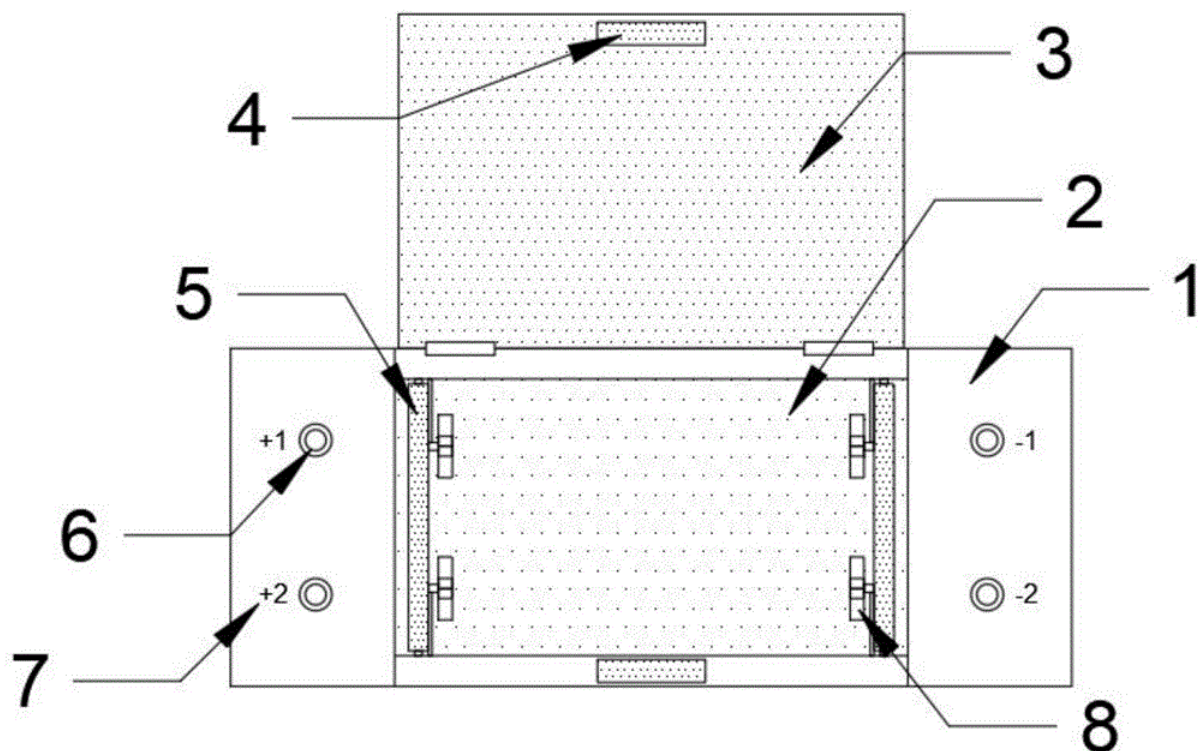
Latest standardized assignees - inventors removed

MAEDA

Family 11/15 - FAMPAT - ©Questel

Title

(CN209280748U)

Installation structure of high-voltage silicon **stack****Images****Publication numbers with kind code & date**[CN209280748](#)

U

2019-08-20

CN209280748U

**Abstract**

(CN209280748)

The utility model discloses an installation structure of a high-voltage silicon **stack**. The socket comprises a shell, an installation groove, an installation plate, an electrical jack, a metal clamp, a sliding **block**, a sliding groove, a conductive groove, a conductive plate and an electrical groove. A mounting groove is formed in the center of the top surface of the shell; two pairs of sliding grooves are symmetrically formed in the inner **wall** of the mounting groove; a mounting plate is arranged on the opposite side in the mounting groove; sliding blocks corresponding to the sliding grooves are asymmetrically fixed to the two sides of the mounting plate. The mounting plate is in sliding connection with the sliding groove through a sliding **block**; electric grooves are symmetrically formed in the positions, located at the two ends of the mounting groove, in the shell. Two pairs of conductive grooves are symmetrically fixed to the inner walls of the two sides of the mounting groove. According to the installation structure of the high-voltage silicon **stack**, convenient installation of the high-voltage silicon **stack** is achieved, electrical connection of the testing device is facilitated, testing work is greatly facilitated, movement of the installation plate adapts to installation and testing of high-voltage silicon stacks of different models, and meanwhile high-safety testing is achieved through closing of the protection cover.

Inventors

窦玉岭

DOU YULING

Latest standardized assignees - inventors removed

TIANJIN XINSI TONGDA ELECTRONIC TECHNOLOGY

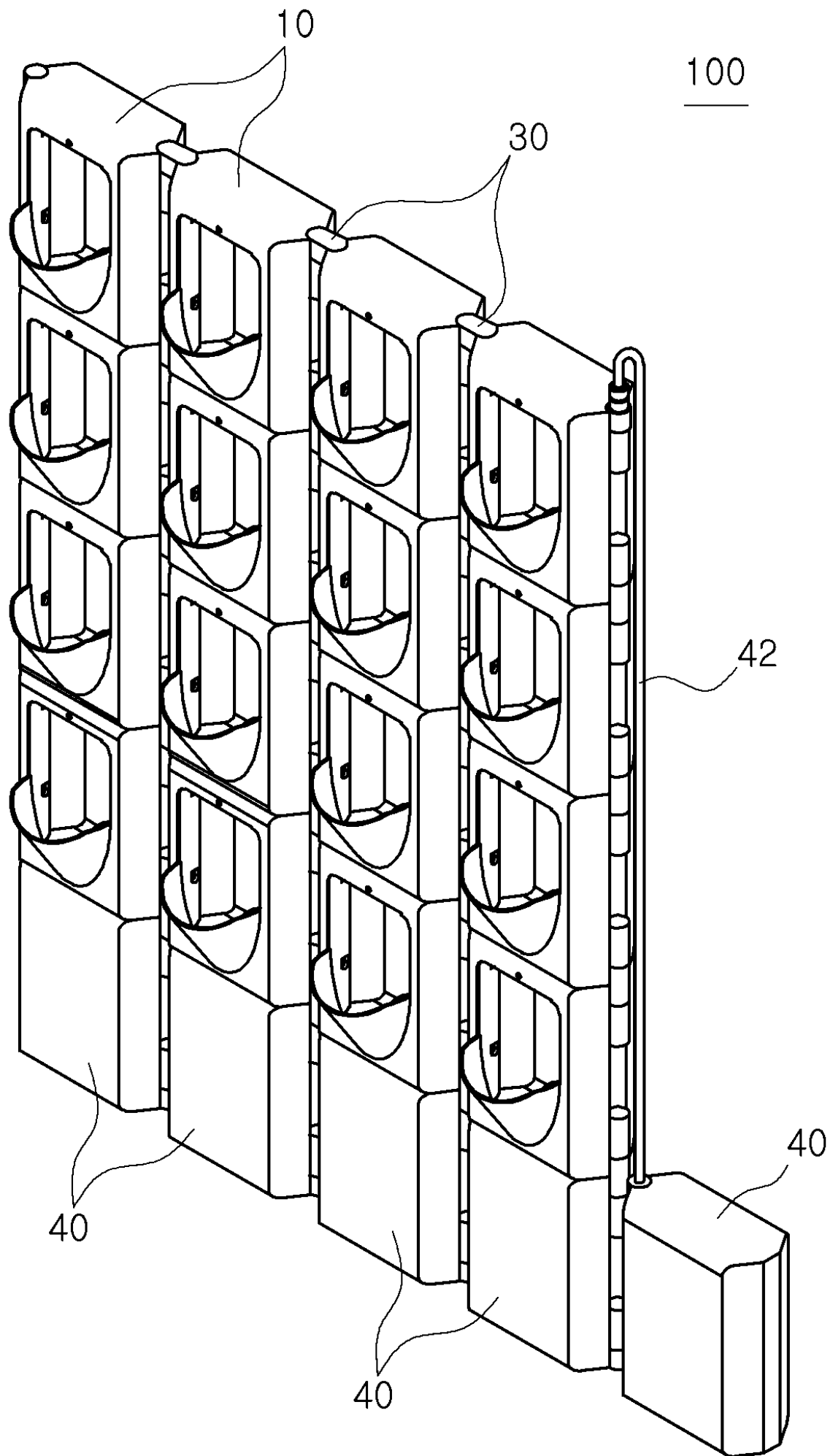
Family 12/15 - FAMPAT - ©Questel

Title

(KR101856472)

Laminated plant cultivation equipment

Images



Publication numbers with kind code & date

KR101856472

B1 2018-05-10

KR101856472

**Abstract**

(KR101856472)

The present invention relates to laminated plant cultivation equipment, which is configured to densely plant a large number of plants on the **wall** surface, and specifically, as an embodiment, presents laminated plant cultivation equipment, which comprises: a laminated **block** in which an opening is formed in front of which a pot is inclined and both ends of left and right ends become smaller in cross sectional area as the distance from the center is increased and **fitting** grooves having a circular cross section are formed in the upper and lower portions of the both ends; and a connecting member having a cylindrical **column** rotatably mounted in the **fitting** grooves to connect the laminated **block** to the left or right or up and down and to connect an inner space of a neighboring laminated **block**. According to the embodiment of the present invention, the laminated plant cultivation equipment installed in a prefabricated manner can produce various curved surfaces on a flat surface, and thus is suitable for use in modern buildings and pillars having many curved surfaces.

Inventors

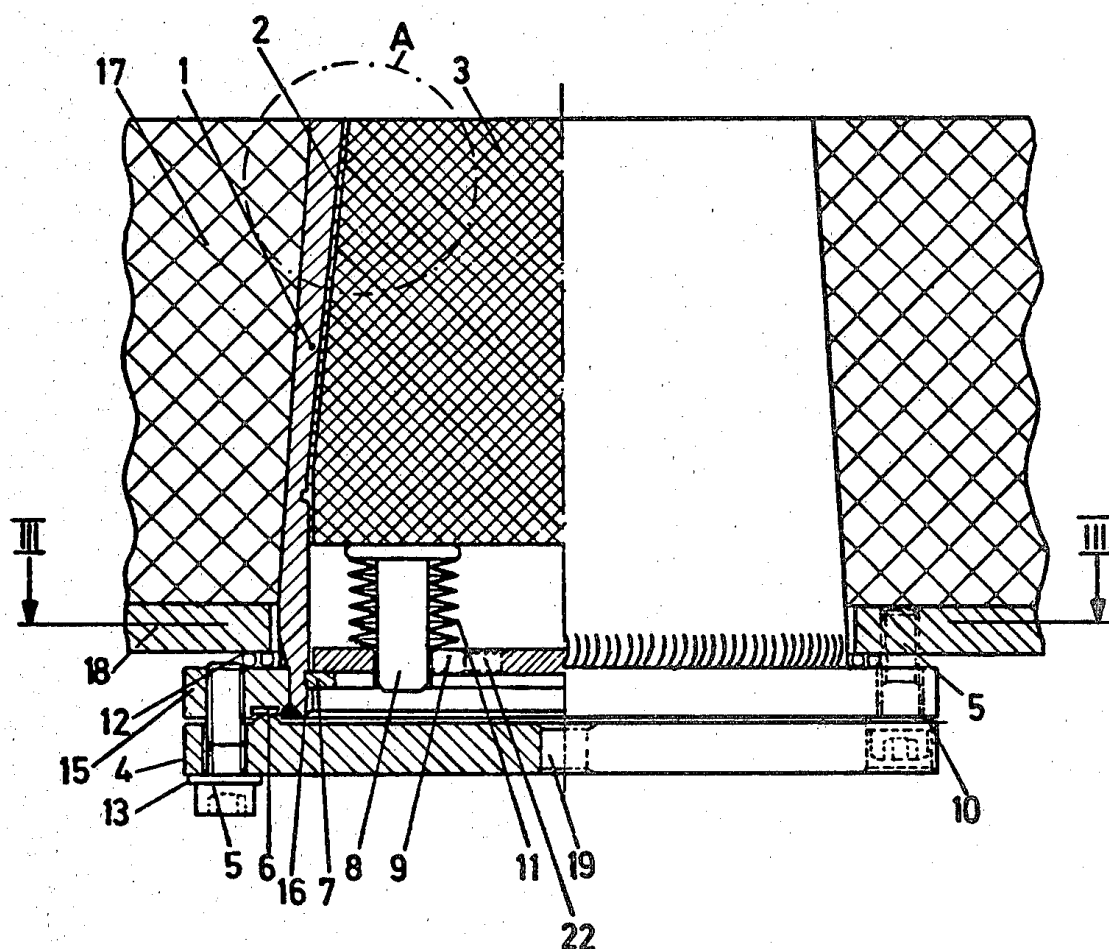
PARK, YO SUNG

Family 13/15 - FAMPAT - ©Questel

Title

(US4053147)

Device for introduction of gases into reaction vessels containing fluids

Images**Publication numbers with kind code & date**

GB1501190

A 1978-02-15

GB1501190

CH595130

A5 1978-01-31

CH-595130

US4053147

A 1977-10-11

US4053147



Abstract

(US4053147)

A vessel which, when in use, is subject to thermal stress, and which includes a device for introduction of gas through the **wall** of the vessel, the device comprising a metal sleeve fastened to the outer face of the **wall** of the vessel in an adjustable and easily exchangeable manner by a combination of screws and spring washers, and a gas-permeable body of fire-resistant material which is mounted adjustably and exchangeably in the metal sleeve under spring pressure. Either a major portion of the gas-permeable body is formed as a frustum of a cone, which has a short cylindrical portion on its end of larger cross section, or the gas-permeable body consists of two cylindrical portions of different cross section. The spring pressure is exerted by at least one dished spring **column** consisting of a series of pairs of oppositely oriented dished spring washers.

Inventors

MOSER ROBERT

STEINEGGER ALFRED

DOLDER FRITZ

FEDDERN HORST

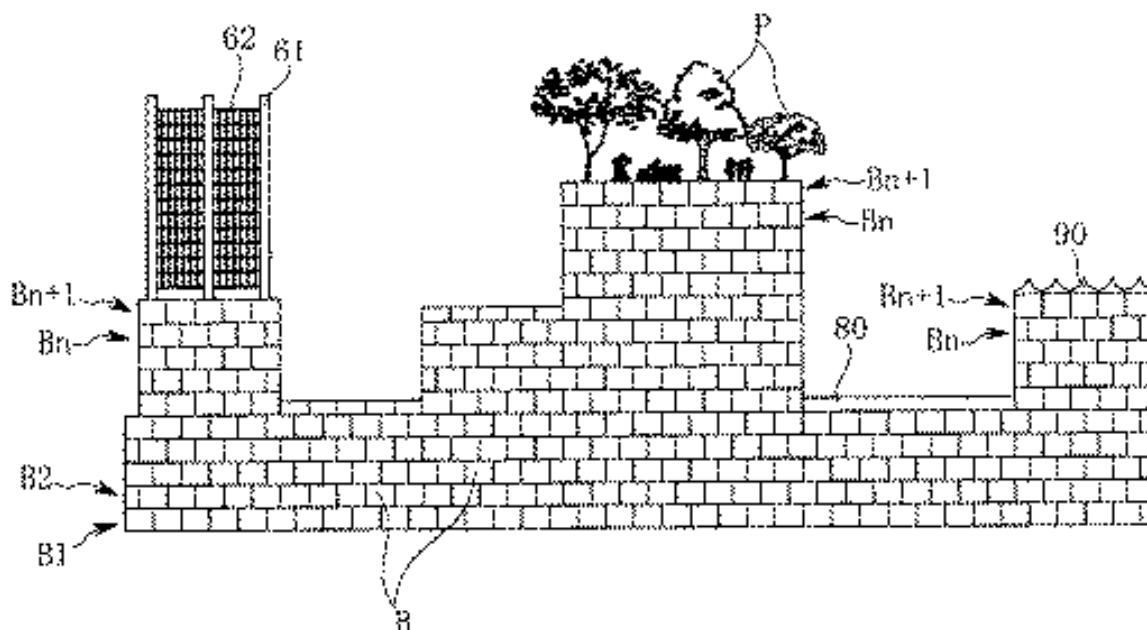
Latest standardized assignees - inventors removed

ALUSUISSE

Family 14/15 - FAMPAT - ©Questel

Title

(JP2011220101)

Fence **block** and fence building method using the same**Images****Publication numbers with kind code & date**

JP2011220101	A	2011-11-04	JP2011220101
CN102220797	A	2011-10-19	CN102220797
KR100970457	B1	2010-07-16	KR100970457

**Abstract**

(JP2011220101)

PROBLEM TO BE SOLVED: To make it possible to **stack** fence blocks in a curved arrangement while mutual connection between the blocks is kept. **SOLUTION:** A fence **block** has a first lateral side and a second lateral side which define a center hole, and has adjacent them a first longitudinal side and a second longitudinal side having respective upper faces with first and second lugs protruded therefrom respectively and lower faces with first and second lug-**fitting** grooves formed

widthwise therein respectively. Extension from the edges of the two lateral sides reaches to the two longitudinal sides to form a **block** edge which defines a half hole. In a first row **block** placing step, such fence blocks are placed with the **block** edges abutting each other. Then, in a similar way, fence blocks are placed in row on the former blocks of the first row at the centers of the lateral sides with the **block** edges abutting each other, and this step is repeated as nth row bloc place step. In a n+1th **block** placing step, fence blocks are place in row on the fence blocks of the nth row. The two lugs are allowed to move widthwise along the lug-fitting grooves.

Inventors

Young, Chors

Young, Hung Moo

Latest standardized assignees - inventors removed

KANSAN

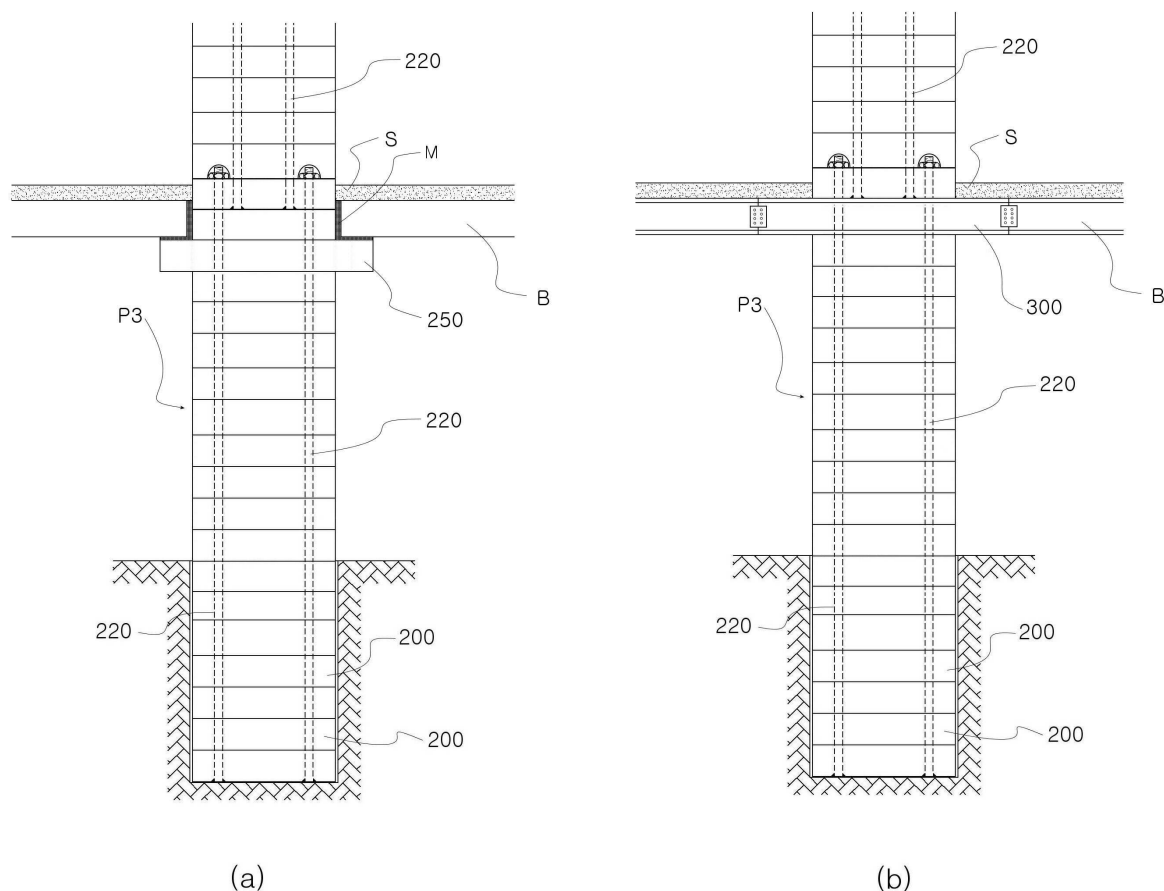
Family 15/15 - FAMPAT - ©Questel

Title

(KR20100043161)

Construction method for a large-diameter **column** and a construction method for a frame of a structure using the same using a drying process

Images



Publication numbers with kind code & date

KR101004747	B1	2011-01-04	KR101004747
KR20100043161	A	2010-04-28	KR20100043161
KR20090068096	A	2009-06-25	KR20090068096



Abstract

(KR20100043161)

PURPOSE: A construction method for a large-diameter **column** and a construction method for a frame of a structure using

the same are provided to construct a building **column**, a large-diameter **column** and a bridge **column** using a drying process in a construction site.

CONSTITUTION: A construction method for a large-diameter **column** is as follows. One large-diameter **column**(P3) is formed by loading unit blocks(200) manufactured by precast concrete. Coupling grooves are formed on the top surface of the unit blocks, and the coupling protrusions are formed on the bottom surfaces of the unit blocks. The unit blocks are coupled each other.

COPYRIGHT KIPO 2010

Inventors

송기용

SONG, KI YONG