

100 Documents

Publication numbers	Title	Current assignees
US20040045242 A1	Mold and mildew resistant openwork building material	BENJAMIN OBDYKE
EP-113987 A2	Openwork screen assembly	CHICAGO METALLIC
WO200318930 A2	Spacer for providing drainage passageways within building structures	BENJAMIN OBDYKE
GB1310023 A	Building structures	LAMB A R
FR2941441 A1	Safe fresh products e.g. medicinal products, storage device for use in room in residential building , has compartments separated from one another by openwork partition for passage of cold air stream	MONTELEONE ELISABETH
CN110124956 A	Type of structural wall graffiti apparatus	YANGZHOU POLYTECHNIC INSTITUTE
US20060117687 A1	Masonry cavity wall having a compressible, expandable debris blocker	BENJAMIN OBDYKE
CN109113352 A	Lattice wall masonry process	RUGAO PLANNING BUILDING DESIGNING INSTITUTE
EP-741638 A1	Sandwich construction building materials	Peter, ...
CN204609040U U	Combination non-bearing is from thermal insulation wall	SHANDONG CHUNTIAN BUILDING MATERIAL SCIENCE & TECHNOLOGY
CN204223206U U	Movable stirring and packaging integrated machine	JIN CAN GUANGTIAN NEW BUILDING MATERIALS
GB9810018 D0	Building ventilation	BUILDING PRODUCT DESIGN
DE3335950 A1	Structure designed as a back-filled openwork wall , such as, for example, a supporting wall , a sound-proofing wall or the like	STRABAG
EP1604152 A2	Built-in type outdoor unit for air conditioner	LG ELECTRONICS
GB2047303 A	Under-pining	FLOWERDAY L
GB1424112 A	Method and apparatus for producing sub-aqueous and other cast-in- place concrete structures in situ	TURZILLO L A
US3726950 A	Method for producing sub-aqueous and other cast-in-place concrete structures in situ	TURZILLO L
CN101664357 A	Manufacturing process of molding art architecture urn or tomb	LI CUIHUA, ...
US2496872 A	Building block with spaced slabs	X T BUILDING BLOCK
US20070051069 A1	Composite Building Material for Cementitious Material Wall Assembly	BENJAMIN OBDYKE

Publication numbers	Title	Current assignees
CN204662894U U	Skirting line in fixed cassette area distribution groove	XUANCHENG OUPAIDE NEW BUILDING MATERIAL
GB-570595 A	Improvements in building construction	ANDREW MCCORMICK MCTAGGART
CN103953168 A	Hollow modeling decorative surface structure without overlapping, and mounting method thereof	SHANGHAI BUILDING DECORATION ENGINEERING
CN204662890U U	Take external corner skirting line ornamental strip in distribution groove	XUANCHENG OUPAIDE NEW BUILDING MATERIAL
CN204662891U U	Take reentrant corner skirting line ornamental strip in distribution groove	XUANCHENG OUPAIDE NEW BUILDING MATERIAL
JP08004364 A	Building material in which sounding is prevented	JAPAN BUILDING TESTING INSTITUTE
CN203867042U U	Profiling hollow modeling veneer structure	SHANGHAI BUILDING DECORATION ENGINEERING
CN203867118U U	Hollowed-out non-overlapping facing structure	SHANGHAI BUILDING DECORATION ENGINEERING
WO2009152491 A2	Device and method to provide air circulation space proximate to insulation material	HETTRICH HANSL
GB-900915 A	Improvements relating to scaffolding	BRITISH BUILDING & ENGINEERI
CN103953153 A	Profiling hollow modeling facing structure and mounting method thereof	SHANGHAI BUILDING DECORATION ENGINEERING
CN109441215 A	Reinforced concrete multifunctional landscape wall segment, wall and construction method thereof	HUNAN TIANZE BUILDING MATERIAL
CN105312972 A	Building-block type recycling device for waste slurry for grinding cast-in-situ terrazzo floor	JIANGSU JIAYANGHUALIAN BUILDING & DECORATION
CN104387025 A	Full-internal combustion one-time palletizing burning production technology for energy-saving type sintered shale hollow blocks	CHONGQING FUXI BUILDING MATERIALS
CN104453675 A	Noxious gas preventing screen door and window	TIANJIN BINGANG ZHENGFA BUILDING DOOR & WINDOW & CURTAIN WALL
CN204266606U U	Material distribution roller assembly for slurry laying device	ZHONGCHENG JIANYUAN NEW BUILDING MATERIALS
CN109441221 A	Reinforced concrete plate-column-combination fabricated type multifunctional landscape wall and construction method thereof	HUNAN TIANZE BUILDING MATERIAL

Publication numbers	Title	Current assignees
CN203973768U U	Mixing and feeding device of color brick pigment	ZHEJIANG FANGYUAN BUILDING MATERIALS TECHNOLOGY
CN104118059 A	Mixed loading device of color brick pigment	ZHEJIANG FANGYUAN BUILDING MATERIALS TECHNOLOGY
CN104329007 A	Ultrathin movable center soft cloth curtain sun-shading system	ZHEJIANG ACADEMY OF BUILDING RESEARCH & DESIGN
CN203867041U U	Hollowed-out light-transmitting facing structure	SHANGHAI BUILDING DECORATION ENGINEERING
US5369930 A	Method of manufacturing a hollow core, concrete building panel	KREICO BUILDING SYSTEMS
WO200721298 A2	Device and method to provide air circulation space proximate to insulation material	HETTRICH HANSL
CN205777892U U	Prefabricated assembled enclosure of industrialization	JIANHUA BUILDING MATERIALS
CN204457303U U	Intelligent light-adjusting three-layer insulating glass	WEI THE CURTAIN WALL
CN104612553 A	Intelligent dimming three-cavity glass	WEI THE CURTAIN WALL
CN208294238U U	Prefabricated assembled combination enclosure with railing	HEBI DONGJIANG CONSTRUCTION INDUSTRY TECHNOLOGY, ...
CN104384006 A	Shale uniformly-crushing device for energy-saving type sintered shale hollow block	CHONGQING FUXI BUILDING MATERIALS
CN103498623 A	Breathable internal suspension membrane type dual-insulated glass	WEI THE CURTAIN WALL
CN103993695 A	Hollowed-out translucent decorative structure and mounting method thereof	SHANGHAI BUILDING DECORATION ENGINEERING
CN104499401 A	Asphalt road surface drainage system and construction method thereof	JIANGXI SHUANGDE BUILDING ENGINEERING
CN204531195U U	Special modified asphalt metal child rubber of various steel roofing is from applying ointment or plaster coiled material	TIANJIN YUHONG BUILDING WATERPROOF MATERIAL
CN102011374 A	Openwork breakwater	HOHAI UNIVERSITY
CN2454408U Y	Noise silencing barrier	MEILI LANDSCAPE BUILDING PLANNING DESIGN OFFICE GUANGZHOU
EP-499442 A2	Underground drainage	HEPWORTH BUILDING

Publication numbers	Title	Current assignees
		PRODUCTS
CN206967965U U	3D printer with thermostatic control function	BEIJING QINGYE GONGHE BUILDING DESIGN CONSULTATION
CN201253446U Y	Yimen type indoor weight-lifting body-building frame	WANG LINGANG
US20110189940 A1	Ridge vent mat and roof ridge assembly	COLBOND, ...
US4173947 A	Method and apparatus for rearing pigs in cages	WELLMAN JOHN G JOHNSONVILLE
CN107268834 A	Structure-pillar free combined openwork brick wall without plastering and construction method thereof	GUANGXI CONSTRUCTION ENGINEERING NO 1 CONSTRUCTION ENGINEERING
GB-537552 A	Improvements in and relating to reinforced partitions, walls, roofs and like structures	FERNAND JILES JOSEPH SERVAIS
FR2956674 A1	Angle beam for use in modular element of channel utilized for e.g. building site, has side wall portions form hollow structure intended to shape free end of side walls co-operating with intimate conjugated forms	HAURATON FRANCE
US5099627 A	Ventilated roof construction and method	BENJAMIN OBDYKE JOHN FITCH INDUSTRIAL PARK WARMINSTER, ...
CN208280081U U	Openwork breakwater	HOHAI UNIVERSITY
US3304675 A	Building constructions	LOWTON CONSTRUCTION
EP1583661 A1	Stretchable film laminates and methods and apparatus for making stretchable film laminates	KIMBERLY CLARK WORLDWIDE
JP2003073204 A	Method for exterminating flying noxious insect in room of house	SUMITOMO CHEMICAL
US20080041005 A1	Drainage-promoting wrap for an exterior wall or roof of a building	BENJAMIN OBDYKE, ...
US3672110 A	Building block	NORDSTROM PER
GB-893841 A	Building element	CERAMICHE DI SAINT ANDREA A R
DE3247039 A1	Interconnection system for forming structural elements	KOCH GUENTHER DIPL ING
US5257476 A	Growing vegetation for the purpose of installing verdure on buildings	FUKUZUMI YUTAKA
FR2867726 A1	Baffle forming device for partitioning storage locker of e.g. motor truck, has mounting posts integrated to openwork fabric structure having improved resistance to tear, where each post contacts walls of locker to form baffle	GRANDO STORES & BACHES
EP2706159 A1	Method for reducing or preventing moisture and/or mould formation or damage in thermally insulated areas, use of a	DAW

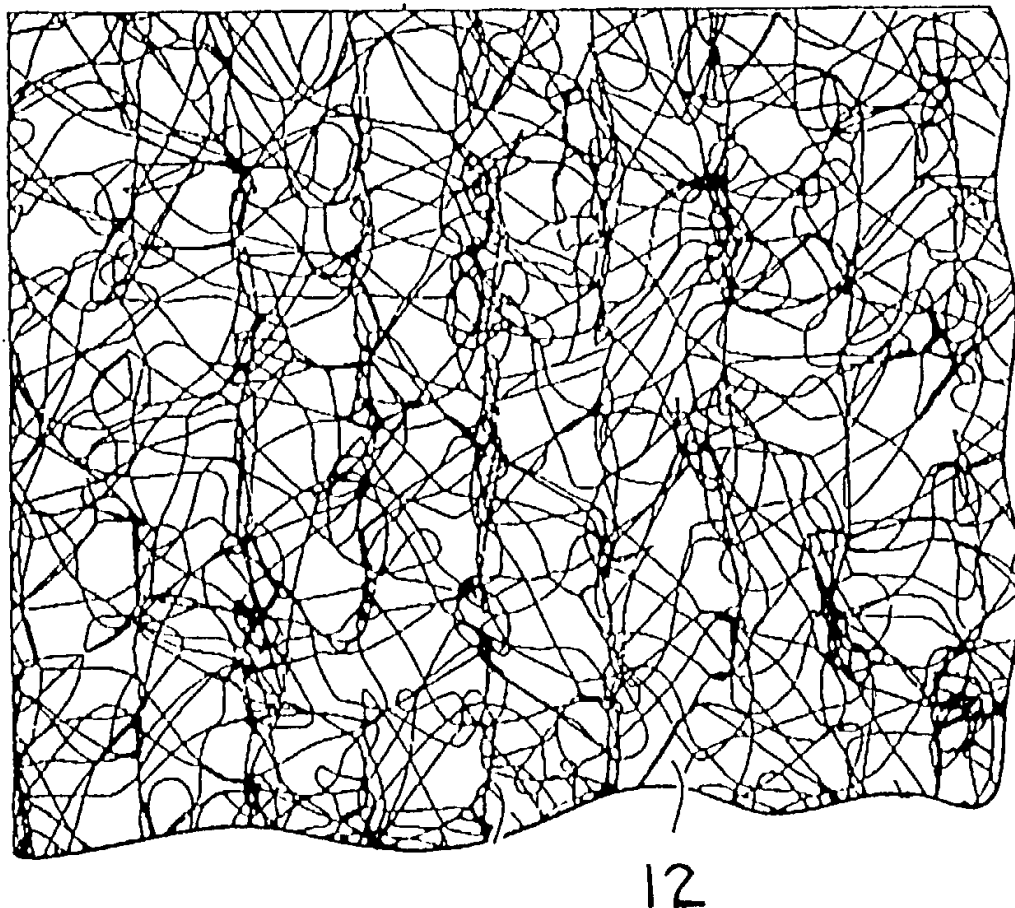
Publication numbers	Title	Current assignees
	thermal conductor to reduce or prevent moisture and/or mould formation or damage in thermally insulated areas and angle profile for reducing or preventing moisture and/or mould damage in thermally insulated areas	
KR200150449U Y1	Construction matrix	000000
WO2017149184 A1	Lightweight modular construction system	ARQUITECTURA & MANUFACTURA
GB-440210 A	Improvements relating to shuttering or centering for concrete walls and other constructions	LEONARD CLAUDE HILL, ...
FR3038972 A1	SENSOR OF SOLAR ENERGY AND DEVICE OF HEATING WITH HOT AIR COMPRISING SUCH A SENSOR	SIAS FRANCK
US20050136831 A1	Rollable roof ridge vent having baffles	BENJAMIN OBDYKE
US5845456 A	Basement waterproofing	READ; ROBERT R.
US20070234650 A1	Vented Soffit Assembly and Method of Installation	BENJAMIN OBDYKE
EP-768706 A2	Clamping structure in an air-tightly sealable container	SHIN ETSU POLYMER, ...
US2187224 A	Plastering system	CORY MARCUS M
EP-148173 A1	Isolation or post isolation method, particularly for building walls and insertion element for implementing such method	JANCISOVICS ISTVAN, ...
KR20110002524 A	Working cage apparatus for construcion	LEE, BYOUNG YOUNG
US3840907 A	Compost toilet	SANITATION ETABLISSEMENTS
CN103883094 A	Environment-friendly home decoration process	PUTIAN CITY LITIAN ROSEWOOD ART CARVING
CN102009560 A	Fabricating process of plasticity art building or furniture	LI CUIHUA, ...
GB1024833 A	Improvements in or relating to frame constructions for multi-storey buildings	FRANCES CLELAND MAIN, ...
US20090025316 A1	Rollable roof ridge vent	BENJAMIN OBDYKE
US2740379 A	Farrowing pen	COLLINS ROBERT A
GB-656186 A	Improvements in or relating to building structures	EUGENE O SULLIVAN
FR-506835 A	Extra-lightweight materials	LOUIS FAURE DUJARRIC
EP--16337 A1	Arrangement and process for air conditioning of a building	HAUGENEDER HANS, ...
GB-662822 A	Building construction	PETER LEWIS BRUNING
US20160024799 A1	Devices and methods to provide air circulation space proximate to insulation material	POLLACK ROBERT W
US20140013688 A1	Devices and methods to provide air circulation space proximate to insulation material	HETTRICH HANSL
US20140311070 A1	Devices and methods to provide air circulation space proximate to insulation material	HETTRICH HANSL
FR2697297 A1	Clamping ring for rain water down pipe - so that it can be	JARLIER GEORGES

Publication numbers	Title	Current assignees
	supported from building wall.	
GB1079944 A	Improvements in building units	MONO CONCRETE

Family 1/100 - FAMPAT - ©Questel

Title

(US20040045242)

Mold and mildew resistant **openwork building** material**Images****Publication numbers with kind code & date**

US20040045242	A1	2004-03-11	US20040045242
CA2439223	A1	2004-03-05	CA2439223

**Abstract**

(US20040045242)

A roll-form **building** material spacer product providing air space and drainage passageways within a **building** structure. The **building** material spacer has an **openwork** structure and carries an antifungal agent which prevents the growth of mold and mildew within a **building** structure in which the spacer is installed. Preferably, the antifungal agent is dispersed evenly throughout the **openwork** material either within the material or coated on the material. A **building** structure assembly having the **openwork** spacer and methods of making an **openwork** spacer and making a **building** structure with the spacer are also provided.

Inventors

LAKE CHARLES W

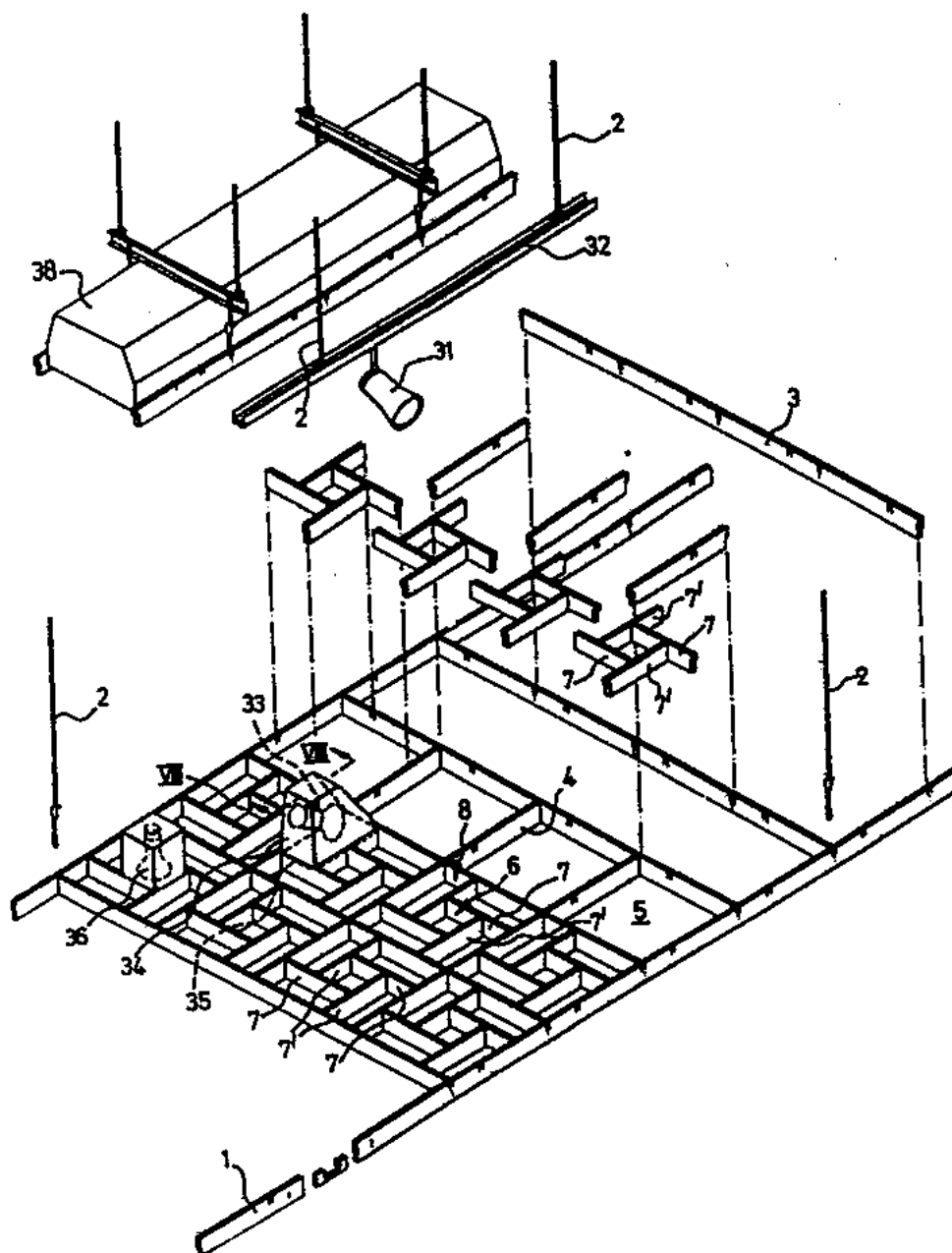
Latest standardized assignees - inventors removed

BENJAMIN OBDYKE

Family 2/100 - FAMPAT - ©Questel

Title

(EP-113987)



JP1546413

C 1990-02-28 JP1546413

JPH0129943

B2 1989-06-15 JP89029943

AU565578

B2 1987-09-17 AU-565578

DE3367947

D1 1987-01-15 DE3367947

AT23896

T 1986-12-15 ATF023896

US4625470

A 1986-12-02 US4625470

EP0113987

B1 1986-11-26 FP-113987

CA1209770

A 1986-08-19 CA1209770

JPS59165749

A 1984-09-19 JP59165749

EP0113987

A3 1984-08-22 EP-113987

EP0113987

A2 1984-07-25 FP-113987

AU2244383

A 1984-06-21 AU8322443



Abstract

(EP0113987)

In order to provide a pleasing aesthetic appearance, and also in order to enable concealed, directional lighting 21 or 23 to be used, an **openwork** grid-like suspended ceiling system has outer squares 5 which contain four inner blades 7, 7mm forming an inner square 6 surrounded by four rectangles 8. The light fittings 21 or 23 are associated with the rectangles 8 so that the axis of the light fitting 21, 23 can be inclined. In order to enable the ceiling system to be packaged at low packing density, the four inner blades 7, 7mm are hinged to each other and collapse so as to lie parallel to each other. After opening out, they can be hooked into the sides of the outer squares 5.

Inventors

HERITAGE, ROBERT CHARLES

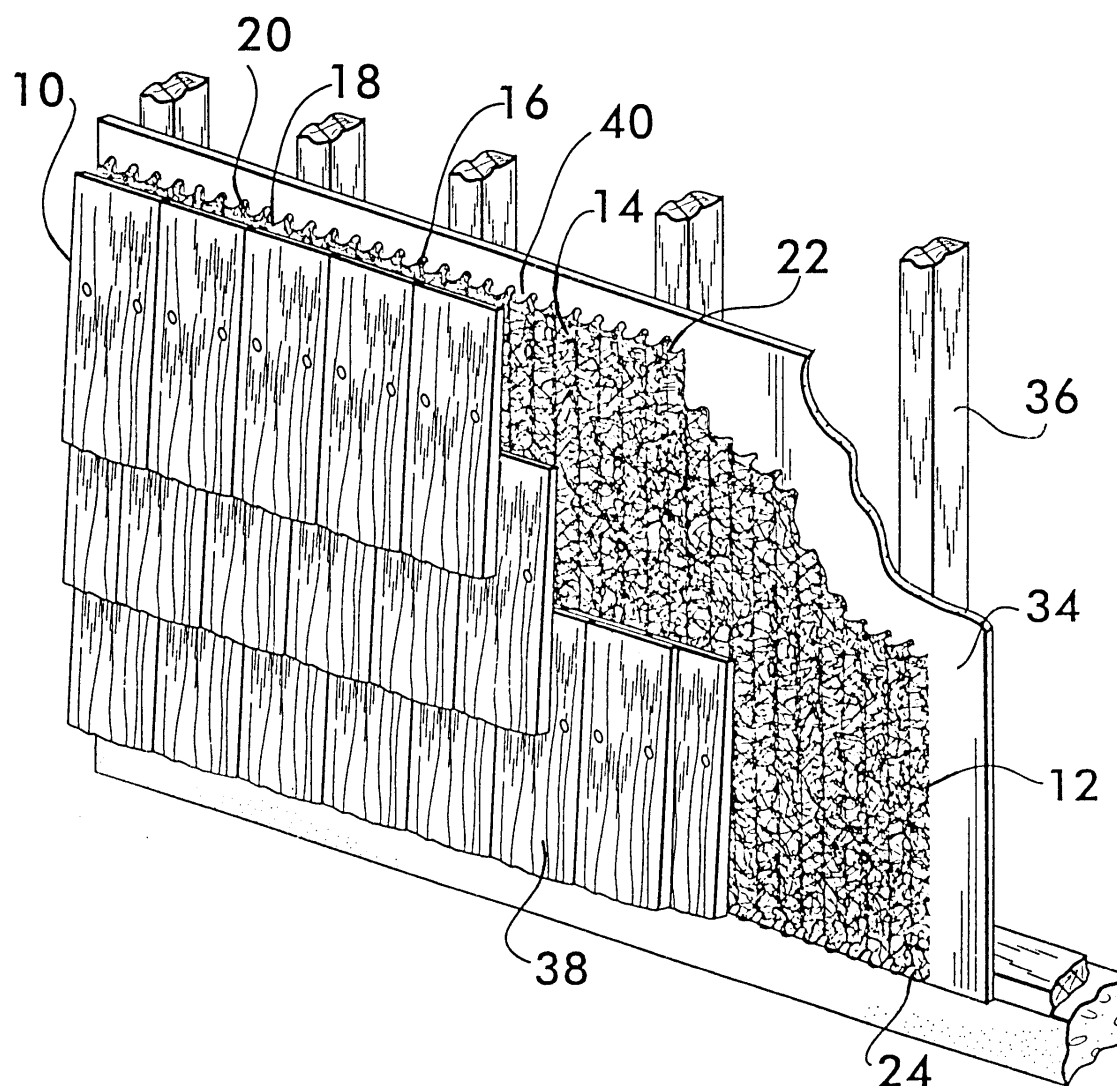
Latest standardized assignees - inventors removed

CHICAGO METALLIC

Family 3/100 - FAMPAT - ©Questel

Title

(WO200318930)

Spacer for providing drainage passageways within **building** structures**Images****Publication numbers with kind code & date**[CA2376583](#)

C 2010-09-21 CA2376583

[WO03/018930](#)

A3 2003-11-06 WO200318930



US6594965	B2	2003-07-22	US6594965
AU2002335626	A1	2003-03-10	AU2002335626
WO03/018930	A2	2003-03-06	WO200318930
US20030037499	A1	2003-02-27	US20030037499
CA2376583	A1	2003-02-21	CA2376583



Abstract

(WO03/018930)

A roll-form spacer product (12) providing air space and drainage passageways within a **building** structure. Preferably, the spacer product (12) is a corrugated web of material having undulating front and rear faces (14, 16) and serpentine-shaped longitudinally extending edges (22, 24). The faces (14, 16) include alternating arrays of grooves (20, 28) and ridges (18, 26) which extend perpendicular to the side edges (22, 26) and parallel to an axis (A) of a spiral roll of the spacer (12). Thus, when the spacer (12) is unrolled and applied to a **building** structure in a plurality of horizontally extending rows, the ridges (18, 26) and grooves (20, 28) are substantially vertically-disposed to form a plurality of unobstructed passageways for the drainage of moisture. Preferably, the web (12) is made of an **openwork** mat of randomly convoluted polymeric filaments, and thus, enables ready circulation of air.

Inventors

COULTON MICHAEL S

Latest standardized assignees - inventors removed

BENJAMIN OBDYKE

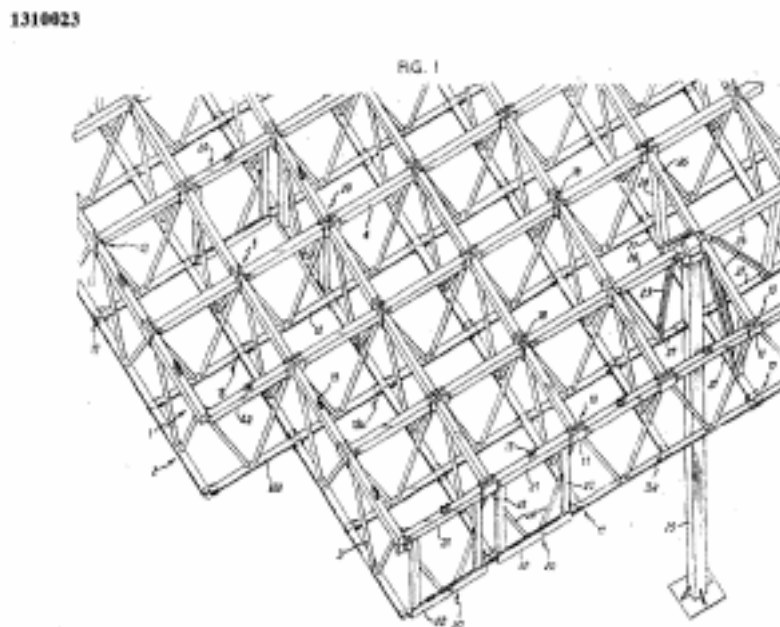
Family 4/100 - FAMPAT - ©Questel

Title

(GB1310023)

Building structures

Images



Publication numbers with kind code & date

GB1310023	A	1973-03-14	GB1310023
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Abstract

(GB1310023)

1310023 Structural lattice work A R LAMB 30 July 1971 [5 May 1970] 21679/70 Heading E1K Lattice work **building** structures for supporting a ceiling and/or floor comprises upper and lower **openwork** structures 1, 2 secured together in superimposed relationship, by intermediate struts 3, the upper **openwork** structure being a grid formed from bar section beams 4 which are of a common length, and are arranged in two mutually transverse sets with the ends of the beams

connected by connectors 5 each secured to the end of a beam of one set and connected to the mid-portion of a beam of the other set. The lower structure is similarly constructed from strips 12 and connectors 13. The connectors 5 each comprise a profiled, member of U section secured to each end of each beam 4 and adapted to be bolted to the mid-point of another beam 4, together with either the connector of a further beam or, if at the edge of the lattice, a clamping plate 11, the connectors 5 and plates 11 being shaped to fit partially around the mid point of the beam to which they are bolted. The connectors 13 may be in the form of either a pair of short plates 13a where, as at the edge of the lattice, it is only necessary to connect one strip end to a strip mid-portion, or a pair of longer plates 13b where two strip ends meet at the mid-point of a strip. In the former case, the plates are bolted to both strips whereas in the latter case the plates are bolted only to the opposed strip ends. The intermediate struts 3 are diagonal and may be supplemented at main support areas, e.g. where a load-bearing reinforcing structure 20 or a column 25 is built into the lattice work, by vertical beams 23, 28, respectively. In a modification (Fig. 4, not shown) the beams and strips are of greater length and the larger square apertures in the lattice thus formed are subdivided by further weaker beams and channel-section strips, respectively. The structure may include projections 18 for location of floor slabs and flanges 19 for location of cladding material. (For Figure see next page)

Latest standardized assignees - inventors removed

LAMB A R

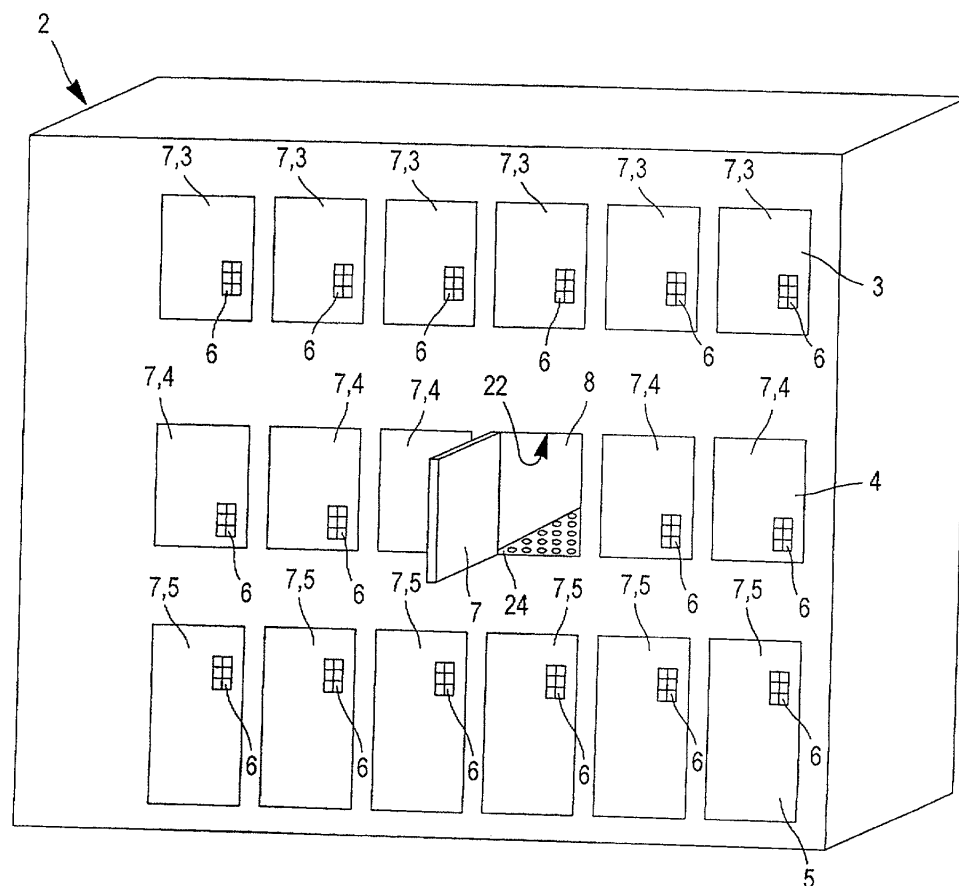
Family 5/100 - FAMPAT - ©Questel

Title

(FR2941441)

Safe fresh products e.g. medicinal products, storage device for use in room in residential **building**, has compartments separated from one another by **openwork** partition for passage of cold air stream

Images



Publication numbers with kind code & date

FR2941441

A1 2010-07-30 FR2941441



Abstract

(FR2941441)

The device (2) has separate compartments (3, 4, 5) connected to a safe access unit (6) to unlock a user door (7) giving access to a volume inside the compartments. A cooling unit is arranged to generate a cold air stream that is circulated through the compartments, where the compartments are separated from one another by an **openwork** partition for passage of the cold air stream. The compartments are horizontally aligned and cooled at a temperature. The compartments are cooled at another temperature different from the former temperature.

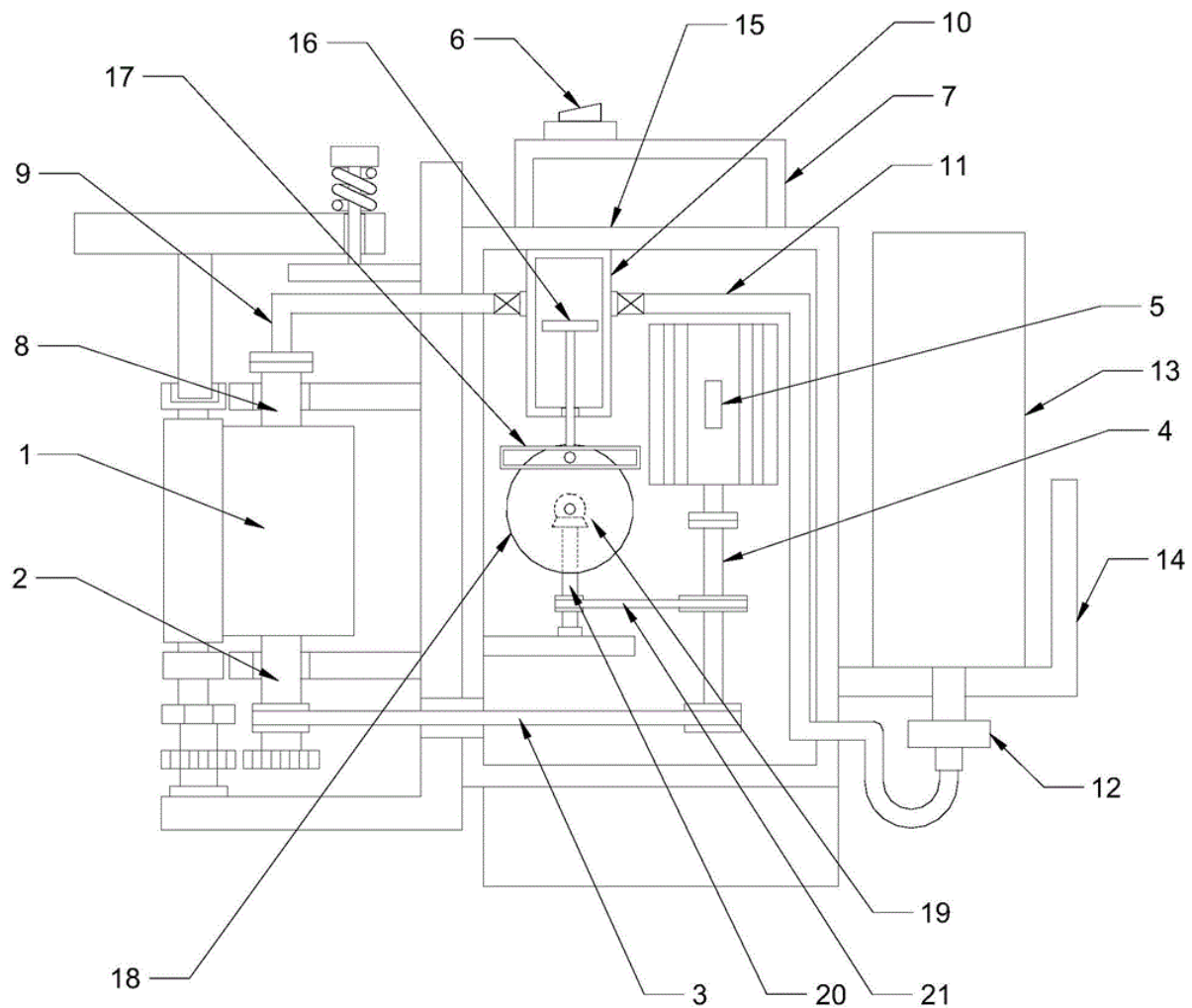
Inventors

MONTELEONE ELISABETH

Family 6/100 - FAMPAT - ©Questel

Title

(CN110124956)

Type of structural **wall** graffiti apparatus**Images****Publication numbers with kind code & date**

CN110124956 A 2019-08-16 CN110124956

**Abstract**

(CN110124956)

The present invention discloses a method for **building** a **wall**-graffiti apparatus, includes a print roll and the **openwork** cloth; print roll is a hollow brush roll and is provided with a spill hole with an even surface, the print roll the print roll drive mechanism is connected to a lower end, the upper end of the feed mechanism is connected to the print roll; connected with the print roll outside **openwork** cloth. The present invention is provided with a hollowed-out cloth wrap mechanism through a linkage of the print roll, the movement of the **openwork** cloth is achieved, so that the print roll into contact with the engraved patterns, efficient stencil printing, to greatly improve the efficiency of the graffiti walls, is provided with a stop rod

through, card-board, spring, cover members, the spooling mechanism facilitates the replacement of the stencil.

Inventors

ZHOU JIAOJIAO
WANG ZHICHAO
WANG ZHENGUO
LIU QIHUI
CHEN FUQIANG
FENG YAO

Latest standardized assignees - inventors removed

YANGZHOU POLYTECHNIC INSTITUTE

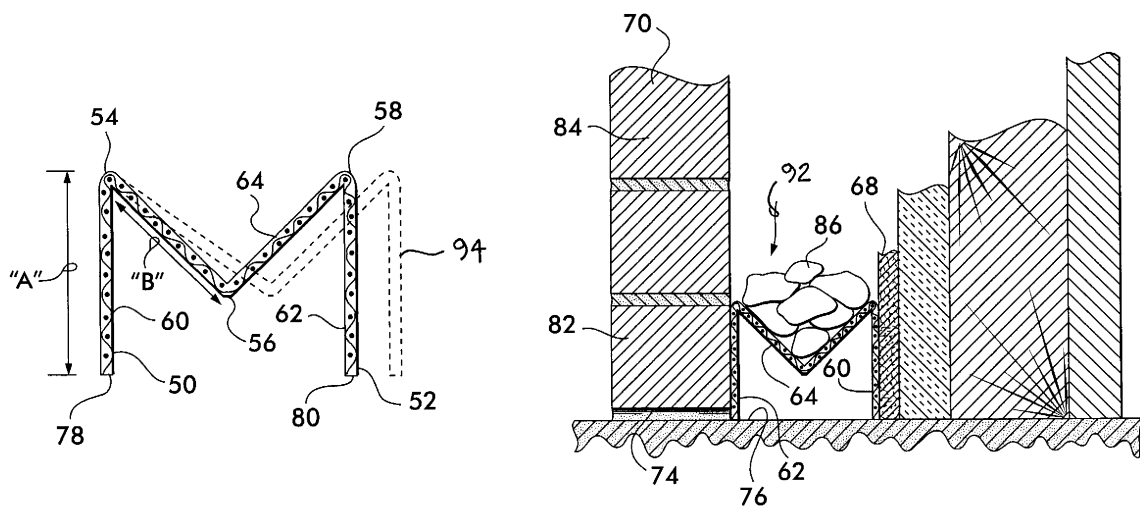
Family 7/100 - FAMPAT - ©Questel

Title

(US7526900)

Masonry cavity **wall** having a compressible, expandable debris blocker

Images



Publication numbers with kind code & date

US7810292	B2	2010-10-12	US7810292
US20090126290	A1	2009-05-21	US20090126290
US7526900	B2	2009-05-05	US7526900
US20060117687	A1	2006-06-08	US20060117687
CA2527467	A1	2006-05-23	CA2527467



Abstract

(US20060117687)

A mortar and debris collection device for use within a cavity **wall** to prevent the blockage of weep holes at the base of the **wall**. The cavity **wall** assembly includes a masonry **wall**, an adjacent inner **wall**, a **wall** cavity therebetween, and a free-standing elongate strip of **openwork** material located within the cavity forming a debris collection surface a spaced distance above a base surface of the cavity. Preferably, the **openwork** material is inserted and positioned within the cavity after the inner **wall** and only a base portion of the outer masonry **wall** is constructed. Thereafter, the upper portion of the outer masonry **wall** is constructed and any mortar or debris falling into the cavity is caught and supported on the debris collection surface.

Inventors

EHRMAN GEOFFREY N
COULTON MICHAEL S
RANDELLO NATHAN L

Latest standardized assignees - inventors removed

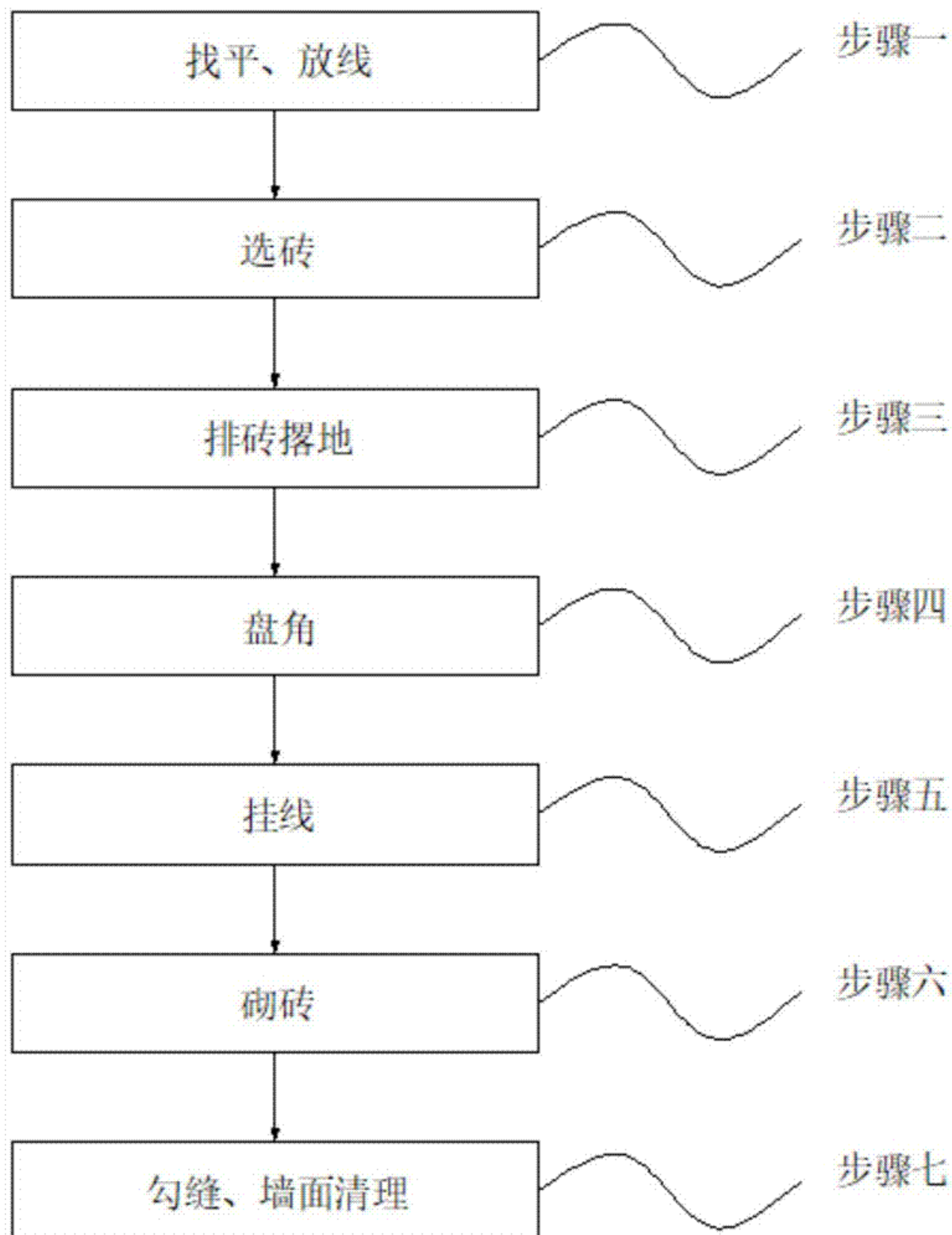
BENJAMIN OBDYKE

Family 8/100 - FAMPAT - ©Questel

Title

(CN109113352)

Lattice wall masonry process

Images**Publication numbers with kind code & date**[CN109113352](#)

A

2019-01-01

CN109113352

**Abstract**

(CN109113352)

The invention discloses a lattice wall masonry process. The lattice wall masonry process includes the following steps that

firstly, leveling and paying off are carried out, specifically, correction of the elevation of each floor is ensured, leveling and paying off are carried out before masonry, and the elevations of floors and the axis positions of wall columns are accurately determined; secondly, brick selecting is carried out, specifically, bricks with neat edges and corners, no bending and cracks, uniform color and basically consistent specifications are selected for building a wall body, and the bricks that the sound is loud when being knocked and the colors are changed or deformation by too far roasting can be selected on a foundation and interior walls without affecting appearance; thirdly, brick lining and bottom piling are carried out, specifically, two gables are lined with header bricks, front and rear longitudinal walls are lined with narrow bricks, and bottom piling of the first layer bricks of external walls is carried out; fourthly, angle building is carried out; fifthly, hanging up is carried out; sixthly, brick laying is carried out; and seventhly, jointing and wall cleaning are carried out. According to the lattice wall masonry process, masonry and jointing are achieved, the neatness and beautiful appearance are achieved, and the waterproof effect of the wall body is good.

Inventors

WANG YUHUA

Latest standardized assignees - inventors removed

RUGAO PLANNING BUILDING DESIGNING INSTITUTE

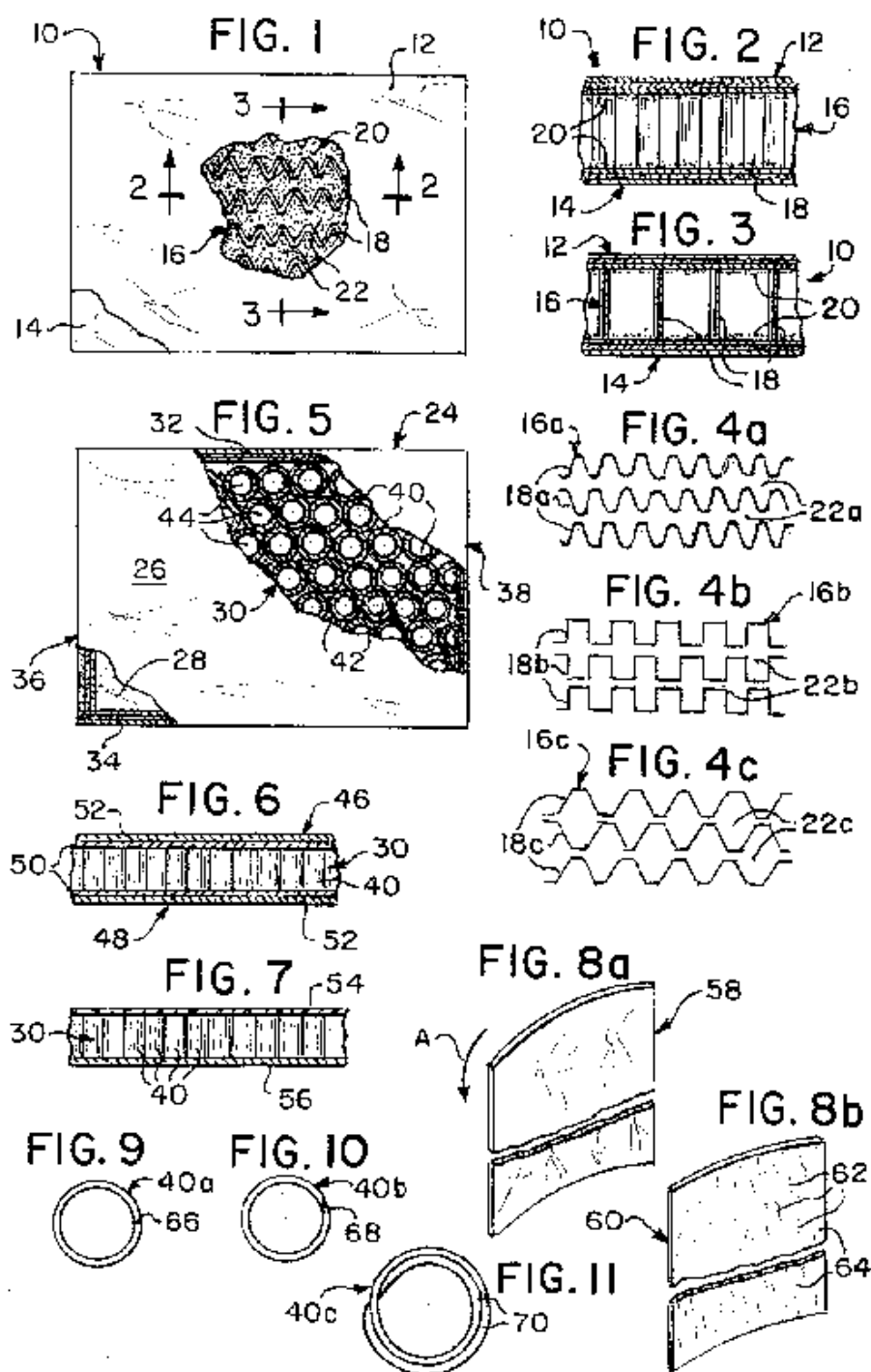
Family 9/100 - FAMPAT - ©Questel

Title

(EP-741638)

Sandwich construction building materials

Images



Publication numbers with kind code & date

CN1095743	C	2002-12-11	CN1095743C
EP0741638	A4	1998-12-02	EP-741638
AU697396	B2	1998-10-08	AU-697396
US5738924	A	1998-04-14	US5738924
JPH09508329	A	1997-08-26	JP09508329
CN1139404	A	1997-01-01	CN1139404
EP0741638	A1	1996-11-13	EP-741638
AU1681495	A	1995-08-15	AU9516814
CA2180553	A1	1995-08-03	CA2180553
WO95/20486	A1	1995-08-03	WO9520486



Abstract

(EP0741638)

Sandwich construction **building** materials (10) are produced using conventional facings or plywood, fiberboard, particle board, mineral board, wood, metal, plastic, etc. on both faces (12, 14) of the **building** material (10), in the inner core (16) therebetween being made from natural wood veneer, veneer made from wood fibers or shavings bound by synthetic resin, etc., shaped into elongate strips (18) of angular, corrugated or undulating configuration or rolled into hollow cylindrical tubes. The strips (18) or tubes may be cut transversely into sections of equal height and assembled proximately or contiguously to form an inner core layer (16) having an **openwork** pattern. **Openwork** may be filled with insulation or strengthening materials, and core elements may be coated. The resulting **building** products (10) may be modular, lightweight, strong and suitable for use as plywood, flooring, walls, beams, joists, trusses and posts.

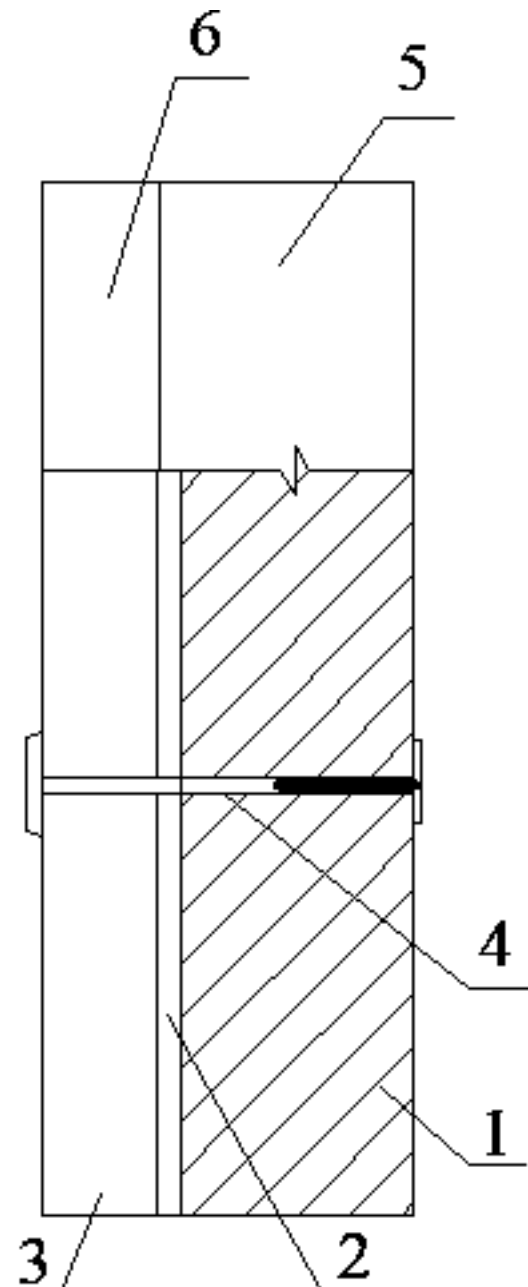
Inventors

SING PETER

Family 10/100 - FAMPAT - ©Questel

Title

(CN204609040U)

Combination non-bearing is from thermal insulation **wall****Images**

Publication numbers with kind code & date

CN204609040

U 2015-09-02 CN204609040U

**Abstract**

(CN204609040)

The utility model provides a combination non-bearing is from thermal insulation wall's technical scheme, the combination non-bearing is from thermal insulation wall of this scheme, including composite insulation board, composite insulation board pass through connecting piece and brickwork wall and on fixed, be provided with bonding mortar layer between composite insulation board and brickwork wall, the brickwork wall build by the building block successive layer. This scheme is built synchronous by laying bricks or stones and is satisfied the non-bearing thermal insulation wall that energy-conserving standard composite insulation board passes through the bonding mortar and communicates component composition formation as an organic whole, is favorable to popularizing and applying.

Inventors

WANG CHUNSHAN

On behalf of the color Yong

LI ZHIMIN

DU CHUNHUA

Latest standardized assignees - inventors removed

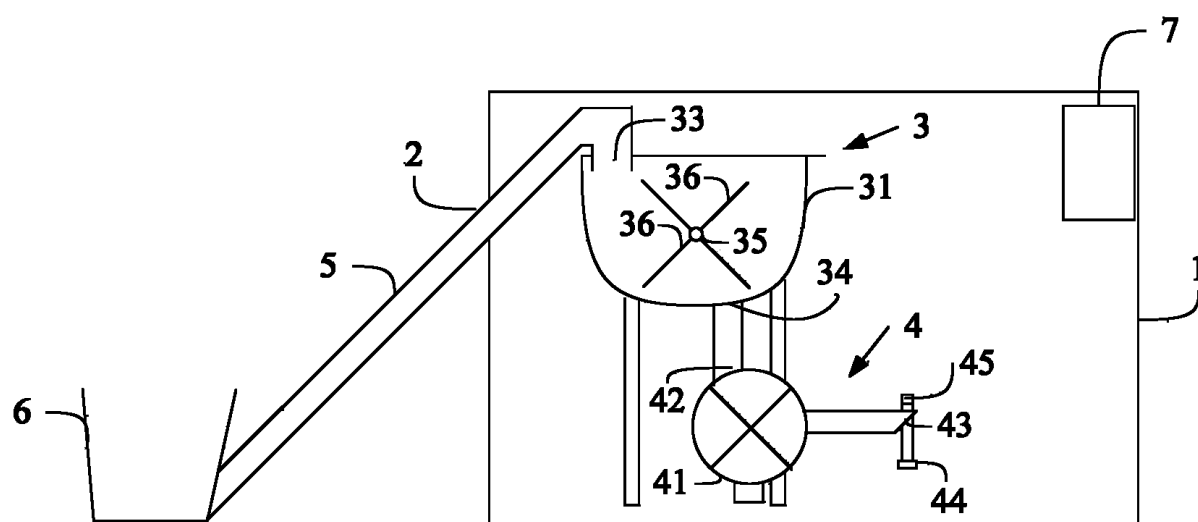
SHANDONG CHUNTIAN BUILDING MATERIAL SCIENCE & TECHNOLOGY

Family 11/100 - FAMPAT - ©Questel

Title

(CN204223206U)

Movable stirring and packaging integrated machine

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

CN204223206

U 2015-03-25 CN204223206U

**Abstract**

(CN204223206)

The utility model discloses a movable stirring and packaging integrated machine and belongs to the technical field of building material production. The movable stirring and packaging integrated machine comprises a container, wherein a feeding through hole is formed in one side wall of the container, a stirring machine and a packaging machine are arranged inside the container, the stirring machine comprises a stirring box and a stirring shaft located in the stirring box, a feed inlet is formed in the upper portion of the stirring box and is close to the feeding through hole, a discharge outlet is formed in the lower side of the stirring box, the packaging machine comprises a feeding device, a feed inlet of the feeding device is connected with the discharge outlet of the stirring box, a discharge outlet of the feeding device is used for being connected with a packaging bag, a packaging bag support is arranged at the position of the discharge outlet of the feeding device, and

a weight sensor is arranged on the packaging bag support. The movable stirring and packaging integrated machine is convenient to move and capable of achieving stirring and packaging at the same time.

Inventors

LI SHAOQIANG

MA ZHAOFU

SHI XIAOWEN

Latest standardized assignees - inventors removed

JIN CAN GUANGTIAN NEW BUILDING MATERIALS

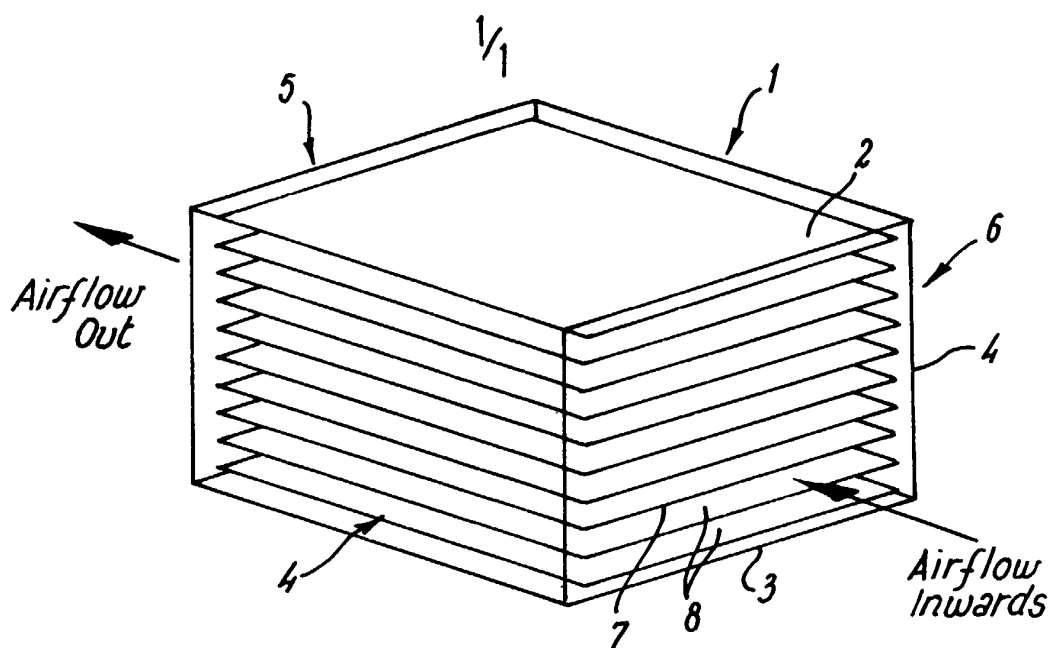
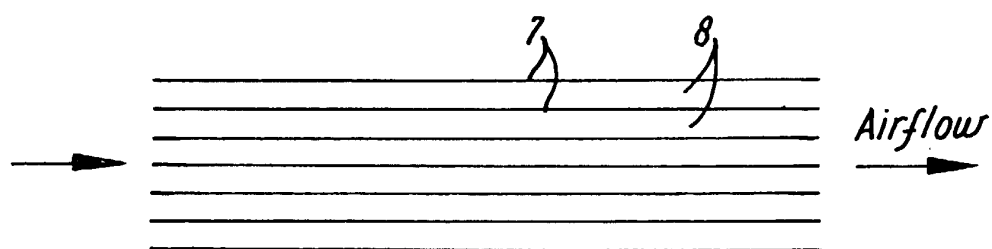
Family 12/100 - FAMPAT - ©Questel

Title

(GB9810018)

Building ventilation

Images

**FIG. 1****FIG. 2****Publication numbers with kind code & date**

GB2337010	B	2002-09-04	GB2337010
GB2337010	A	1999-11-10	GB2337010
GB9910439	D0	1999-07-07	GB9910439
GB9810018	D0	1998-07-08	GB9810018

**Abstract**

(GB9810018)

A **building** ventilation system incorporates a filter comprising a plurality of spaced apart filter layers 7, with the airflow being

directed along the spaces 8. The layers 7 may be parallel, rectangular sheets. The sheets may be flat or have a zig-zag or convoluted formation, the formation being obtained by folding, deflecting or surface profiling of the sheets. The sheets may be formed from a fibrous mat or a porous foam filtration medium and may bear an electrostatic charge.

(From GB2337010 A)

Inventors

HESKETH MARK L

Latest standardized assignees - inventors removed

BUILDING PRODUCT DESIGN

Family 13/100 - FAMPAT - ©Questel

Title

(DE3335950)

Structure designed as a back-filled **openwork wall**, such as, for example, a supporting **wall**, a sound-proofing **wall** or the like

Images

-13-

Anmeldetag:

4. Oktober

Offenlegungstag:

18. April 19

33359

NACHGERICHT

FIG. 1

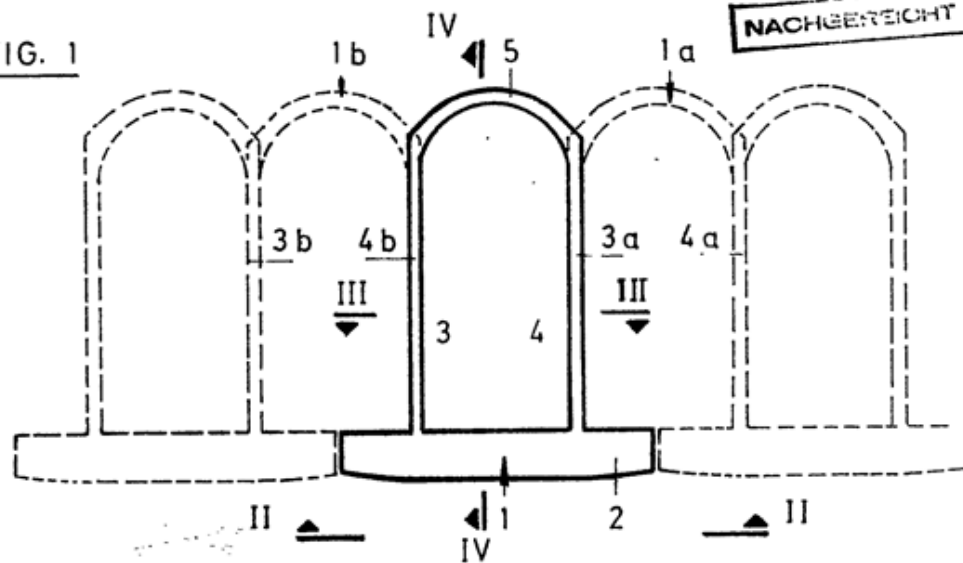


FIG. 2

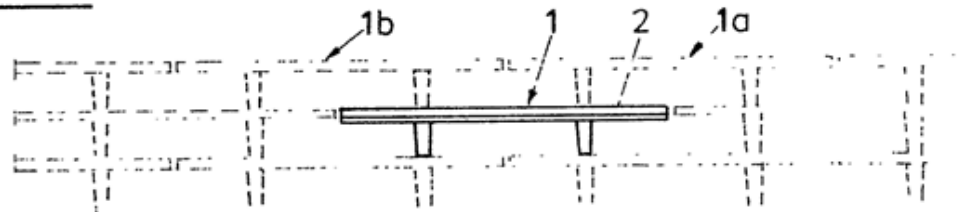
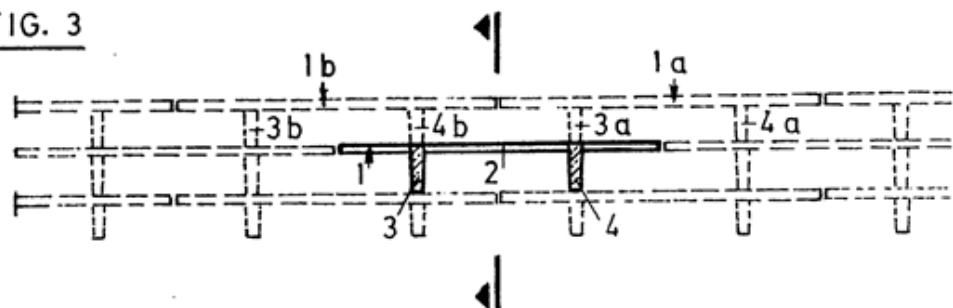


FIG. 3



BAD ORIGINAL

FIG. 4

2

1

Publication numbers with kind code & date

DE3335950

A1 1985-04-18 DE3335950



Abstract

(DE3335950)

An **openwork wall** which can be used as a supporting **wall**, a sound-proofing **wall** or the like is and back-filled with earth, is formed from a number of **building elements** (1) arranged in layers next to one another and above one another. The **building elements** (1) comprise, for their part, in each case a **stretcher element** (2) which is arranged on the outer side of the **openwork wall** and determines the contour thereof, and which is connected, by two webs (3, 4) extending at right angles to it and one anchoring element (5) joining the ends of said webs in a U-shape, to a monolithic prefabricated compound unit of

reinforced concrete. The **building** elements (1) are arranged with respect to one another in such a way that the webs (3a or 4b) of the **building** elements (1a or 1b) of one layer are positioned in each case with their lower faces on the upper faces of the webs (4 or 3) of the **building** elements (1) of the layer below. As a result, a high degree of rigidity of the **openwork wall** is achieved independently of the back-filling.

Inventors

VERZICHT DES ERFINDERS AUF NENNUNG

Latest standardized assignees - inventors removed

STRABAG

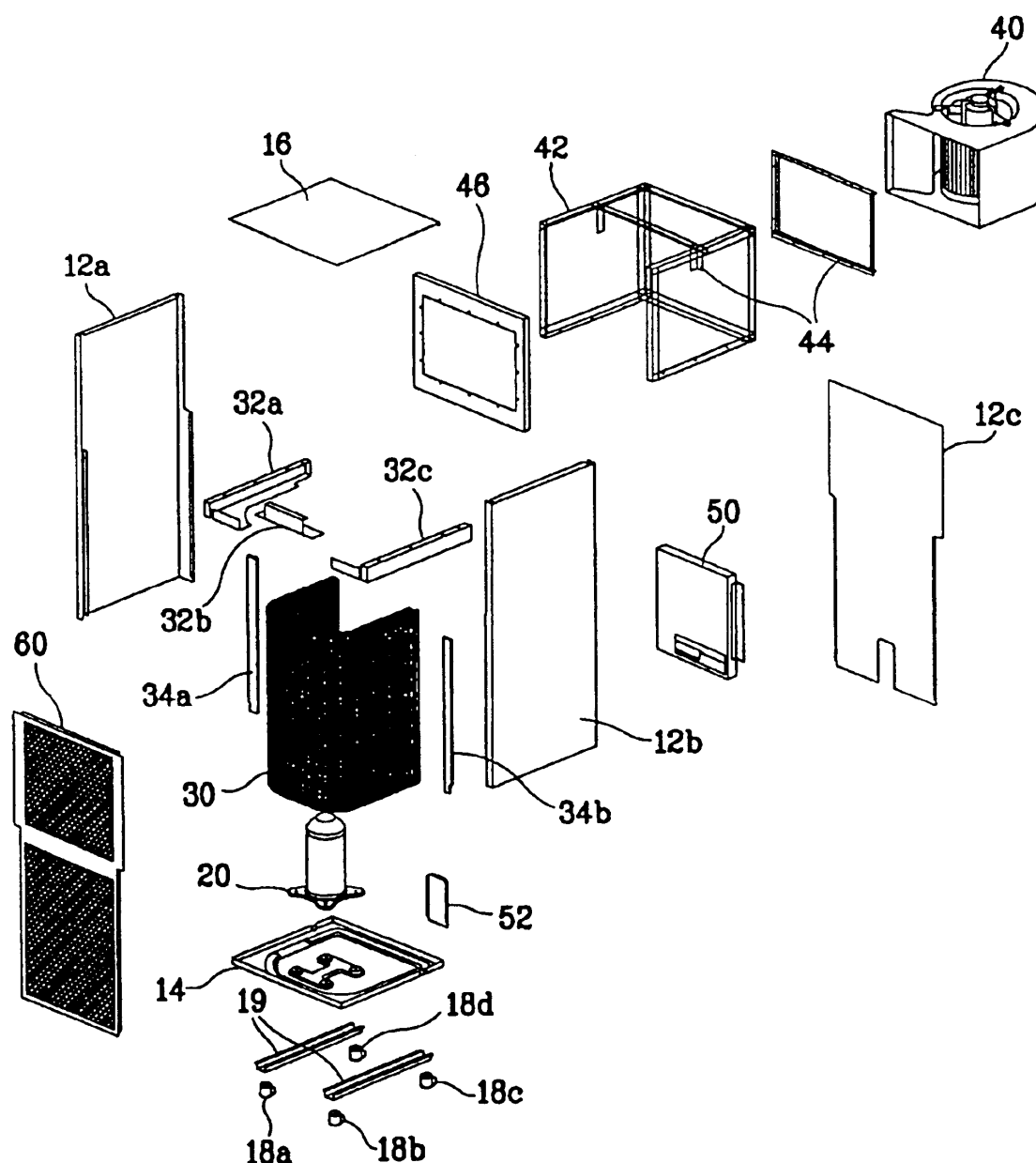
Family 14/100 - FAMPAT - ©Questel

Title

(EP1604152)

Built-in type outdoor unit for air conditioner

Images



Publication numbers with kind code & date

ES2544855	T3	2015-09-04	ES2544855
EP1606562	B1	2015-06-03	EP1606562
ES2532258	T3	2015-03-25	ES2532258



EP1606558	B1	2015-02-11	EP1606558				
CN101614422	B	2011-03-16	CN101614422B				
CN100593673	C	2010-03-10	CN100593673C				
CN101614422	A	2009-12-30	CN101614422				
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KR100764264	B1	2007-10-05	KR100764264				
IN3509/DELNP/2005	A	2007-04-20	IN2005DN03509				
KR100690142	B1	2007-03-08	KR100690142				
US7174740	B2	2007-02-13	US7174740				
KR100673719	B1	2007-01-24	KR100673719				
KR100673722	B1	2007-01-24	KR100673722				
KR20060123669	A	2006-12-01	KR20060123669				
KR20060116259	A	2006-11-14	KR20060116259				
KR20060114723	A	2006-11-07	KR20060114723				
US7124601	B2	2006-10-24	US7124601				
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KR100565843	B1	2006-03-30	KR100565843				
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CN1732361	A	2006-02-08	CN1732361				
US6990832	B2	2006-01-31	US6990832				
EP1606558	A2	2005-12-21	EP1606558				
EP1606559	A2	2005-12-21	EP1606559				
EP1606562	A2	2005-12-21	EP1606562				
EP1606563	A2	2005-12-21	EP1606563				
EP1604152	A2	2005-12-14	EP1604152				
KR100524849	B1	2005-10-28	KR100524849				
KR100517901	B1	2005-10-04	KR100517901				
US6945072	B2	2005-09-20	US6945072				
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KR20050005404	A	2005-01-13	KR20050005404				

US20040255614	A1	2004-12-23	US20040255614				
KR20040096511	A	2004-11-16	KR20040096511				
KR20040093683	A	2004-11-08	KR20040093683				
KR20040093684	A	2004-11-08	KR20040093684				
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WO2004/076933	A2	2004-09-10	WO200476933				
WO2004/076934	A2	2004-09-10	WO200476934				
WO2004/076937	A2	2004-09-10	WO200476937				
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KR20040076603	A	2004-09-01	KR20040076603				
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US20040163410	A1	2004-08-26	US20040163410				
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KR200342070	Y1	2004-02-14	KR200342070U				
KR200342073	Y1	2004-02-14	KR200342073U				
KR200342074	Y1	2004-02-14	KR200342074U				
KR20030089690	A	2003-11-22	KR20030089690				
AU2003222481	A1	2003-11-03	AU2003222481				
AU2003222481	A8	2003-11-03	AU2003222481				
WO03/088732	A2	2003-10-30	WO200388732				
KR20030074621	A	2003-09-19	KR20030074621				
KR20030074622	A	2003-09-19	KR20030074622				
AU2003222479	A1	2003-09-04	AU2003222479				
AU2003222479	A8	2003-09-04	AU2003222479				
AU2003235500	A1	2003-09-04	AU2003235500				
AU2003235500	A8	2003-09-04	AU2003235500				
WO03/068542	A2	2003-08-21	WO200368542				
WO03/068543	A2	2003-08-21	WO200368543				
KR20030036299	A	2003-05-09	KR20030036299				

Abstract

(EP1604152)

The present invention relates to a built-in type outdoor unit (10) for an air conditioner which prevents air from being leaked between an outer wall (102) of a building and the outdoor unit and reduces vibrations and noises by absorbing vibrations generated in the outdoor unit. A built-in type outdoor unit includes: a louver frame (104, 106) being fixedly installed on an inner wall of an opened space on an outer wall of a building, being divided into a suction area (107a) and a discharge area (107b), and having a plurality of louver blades (108) in each area; an outdoor unit casing fixedly installed on the bottom of the building to contact the louver frame, one side of which facing the louver frame being opened, the other surfaces of which being closed; and a sealing member installed between the louver frame and the outdoor unit casing, for adhering the outdoor unit casing to the louver frame. In addition, a built-in type outdoor unit includes: an outdoor unit casing fixedly installed to contact an opened space on an outer wall of a building, one surface of which facing the opened space on the outer wall of the building being opened, the other surfaces of which being closed; and a sealing member installed between the outer wall of the building and the outdoor unit casing, for adhering the outdoor unit casing to the outer wall of the

building.

Inventors

KIM IN-GYU

KOO JA-HYUNG

PARK BYUNG-IL

KIM YANG-HO

HONG YOUNG-HO

HEO KYEONG-WOOK

SUNG SI-KYONG

LEE DONG-HYUK

KIM TAE-GEUN

Latest standardized assignees - inventors removed

LG ELECTRONICS

Family 15/100 - FAMPAT - ©Questel

Title

(GB2047303)

Under-pining

Images

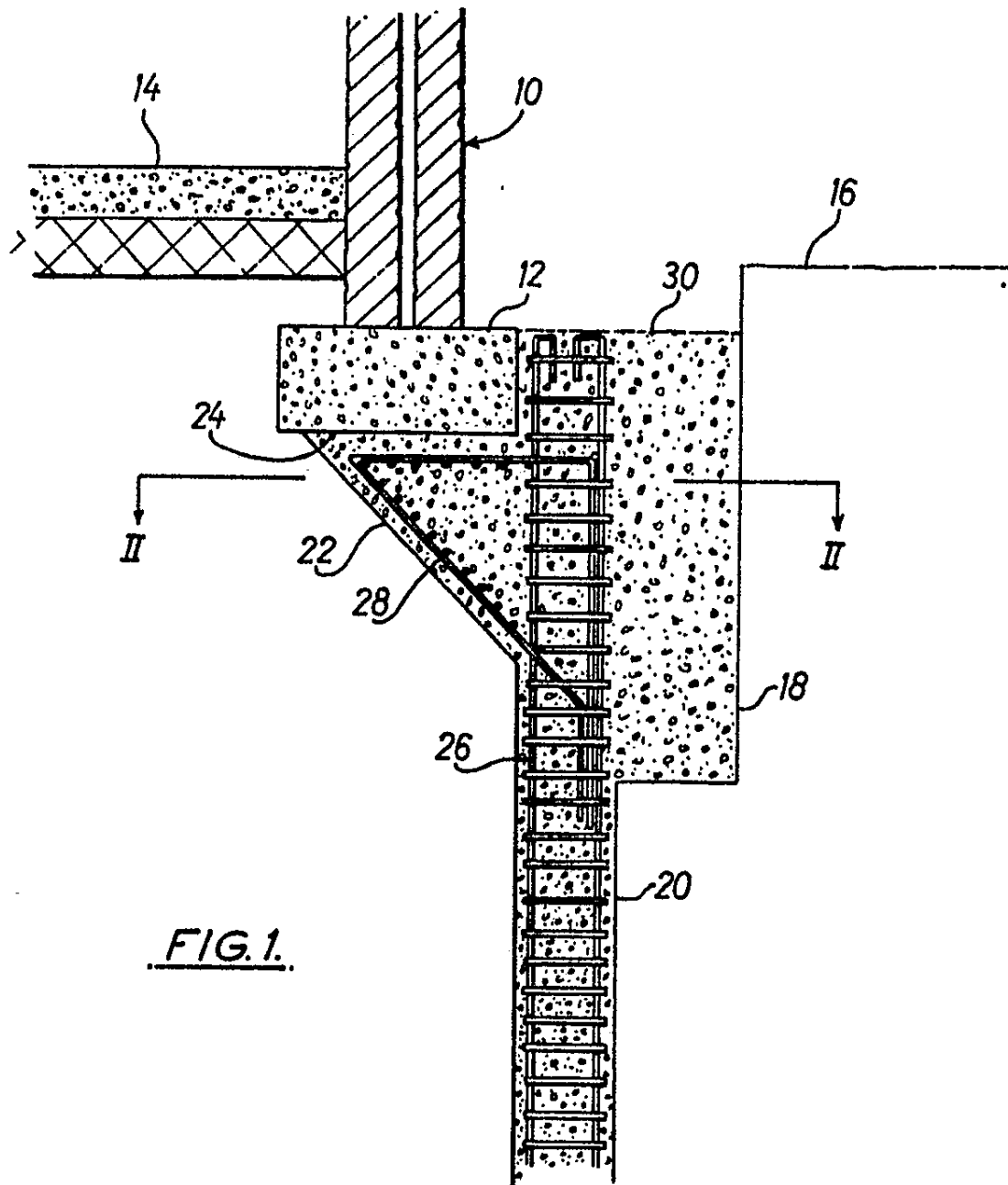


FIG. 1.

Publication numbers with kind code & date

GB2047303	B	1982-12-15	GB2047303
GB2047303	A	1980-11-26	GB2047303



Abstract

(GB2047303)

A method of underpinning comprises the steps drilling one or more holes 20 beyond the lateral extent of existing foundations 12, enlarging the upper regions of the hole(s) laterally beneath the wall and its foundations, introducing an openwork pile 26 and mounting an openwork cap 28 therein and thereafter introducing concrete to fill the hole and encapsulate the pile and cap.

Latest standardized assignees - inventors removed

FLOWERDAY L

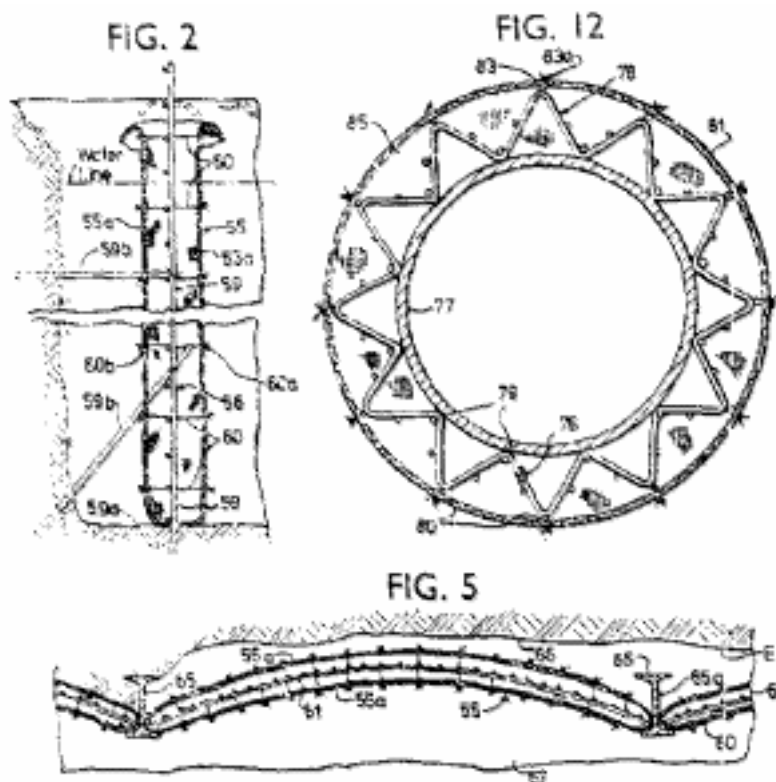
Family 16/100 - FAMPAT - ©Questel

Title

(GB1424112)

Method and apparatus for producing sub-aqueous and other cast-in-place concrete structures in situ

Images



Publication numbers with kind code & date

GB1424112

A 1976-02-11 GB1424112



Abstract

(GB1424112)

1424112 Concrete structures; supporting permanent shuttering; subaqueous structures L A TURZILLO 7 Feb 1973 37074/75 Divided out of 1424111 Headings E1H E1S and E1W [Also in Division F2] A sub-aqueous or other concrete structure is formed using a flexible fabric container, which may be porous, e.g. of hessian, retained in the desired position by an internal **openwork** structure of, e.g. square mesh wire fencing material of four or five inch mesh, and filled with grout. In the embodiment of Fig. 2 a retaining **wall** has a container 55 fixed by ties 60 to an **openwork** grid 56, ties 59b being employed. A lagging **wall**, shown in Fig. 5, is formed using joists 65 upright against an earth **wall** E, excavating between them to force a reinforced container into a bowed configuration therebetween, and filling the container with grout. The earth below the container may then be excavated, and a further container inserted, and so on. An arched culvert may be formed using a bowed container similar to the above, (Figs. 8-10, not shown). Figs. 12-22 illustrate embodiments relating to the repair of pipes of, e.g. metal, employing a sleeve e.g. 81, or an annular container, wrapped around the pipe, with an internal reinforcement.

Latest standardized assignees - inventors removed

TURZILLO L A

Family 17/100 - FAMPAT - ©Questel

Title

(US3726950)

Method for producing sub-aqueous and other cast-in-place concrete structures in situ

Images

FIG. 1

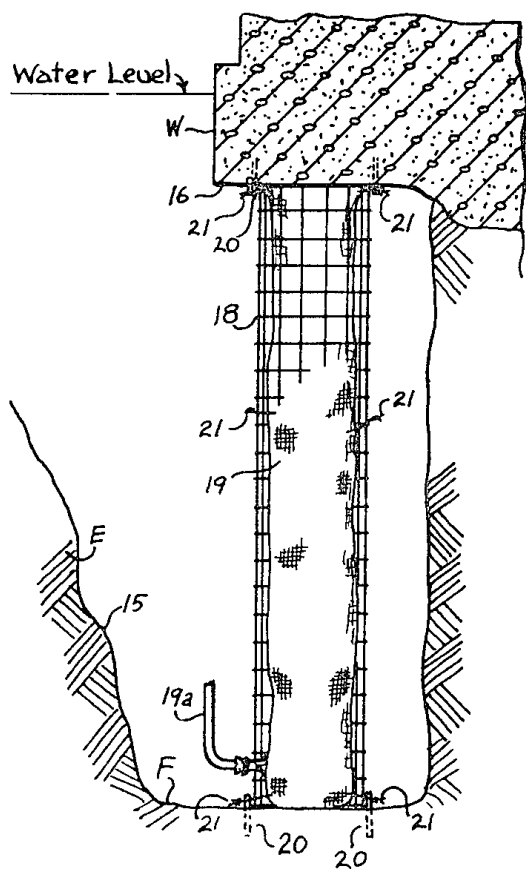


FIG. 2

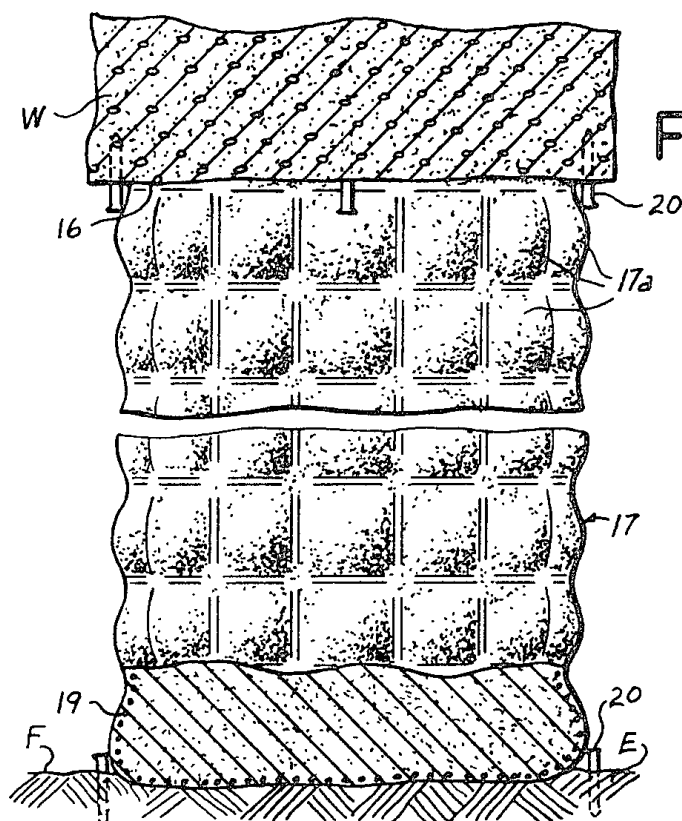
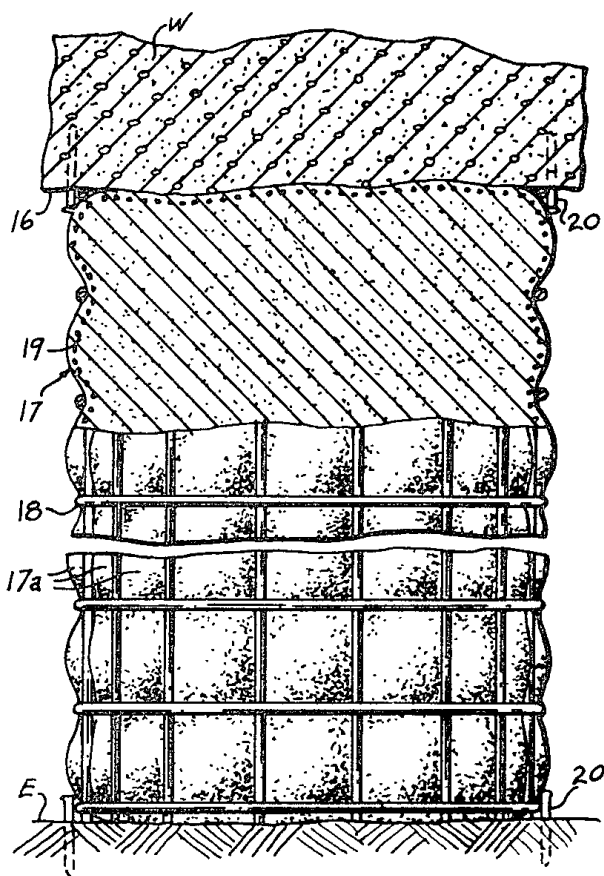


FIG. 3

INVENTOR.
Lee A. Turzillo

BY
William Cleland
Att r

Publication numbers with kind code & date

US3726950 A 1973-04-10 US3726950

**Abstract**

(US3726950)

Method for repairing or forming structural bodies of self-hardening fluid cement mortar, in a sub-aqueous or other situs, utilizing body-forming cavity including body-shaping walls of porous fabric in combination with **openwork** matrix means. Fluid mortar or like cementitious material pumped into cavity to fill same and expand fabric walls against tensional restraint of fixedly maintained matrix means. Pressure of fluid material continued against restraint of matrix means until small proportions of fluid material oozes into the porous fabric, and indicates attainment of lowered water-cement ratio in formed body, and then fluid material is allowed to set and harden in said given formed shape.

Some, if not all, forms of the invention are particularly useful for under-water installations, such as breakwaters because forming matrices thereof are capable of withstanding rough seas or storm waves without damage during the construction processes, and because the fluid cement mortar pumping operations are possible in minimum of time when rough water conditions subside.

Inventors

TURZILLO L

Family 18/100 - FAMPAT - ©Questel

Title

(CN101664357)

Manufacturing process of molding art architecture urn or tomb

Publication numbers with kind code & date

CN101664357 A 2010-03-10 CN101664357

**Abstract**

(CN101664357)

The invention relates to a manufacturing process of a molding art architecture urn or a tomb, which is characterized in that: the materials of products and the process are: imitation jadeite, imitation boulder, imitation agate, imitation white marble, imitation tianhuang stone, imitation crystal, imitation purple black quartz, imitation cloisonne enamel, imitation blue stone, imitation granite, imitation rain flower pebbles, imitation rosewood, imitation cement/ imitation purple metallic wood, imitation sandalwood, imitation sandalwood odor type, imitation rose odor type, imitation evening primrose odor type, imitation gardenia flower odor type, imitation Michelia champaca odor type, imitation sweet-scented osmanthus odor type, imitation lilac odor type or imitation lily odor type are manufactured into the products which are in accordance to the design requirements. The products with the same manufacturing process are all combined on main body by steel bars, steel pipes, steel rails or joist steel casting piles, and pile molding, hole drilling, joggling, welding, riveting, an internal and external movable groove, an internal and external decorative **wall**, externally decorative molding, color modeling, gluing and hot molding methods, so as to lead the body to achieve the design requirements. The products are molded into an urn or a tomb with anaglyph or **openwork** carving patterns, which has different material, shape, level and color according to the design requirements.

Inventors

LI CUIHUA

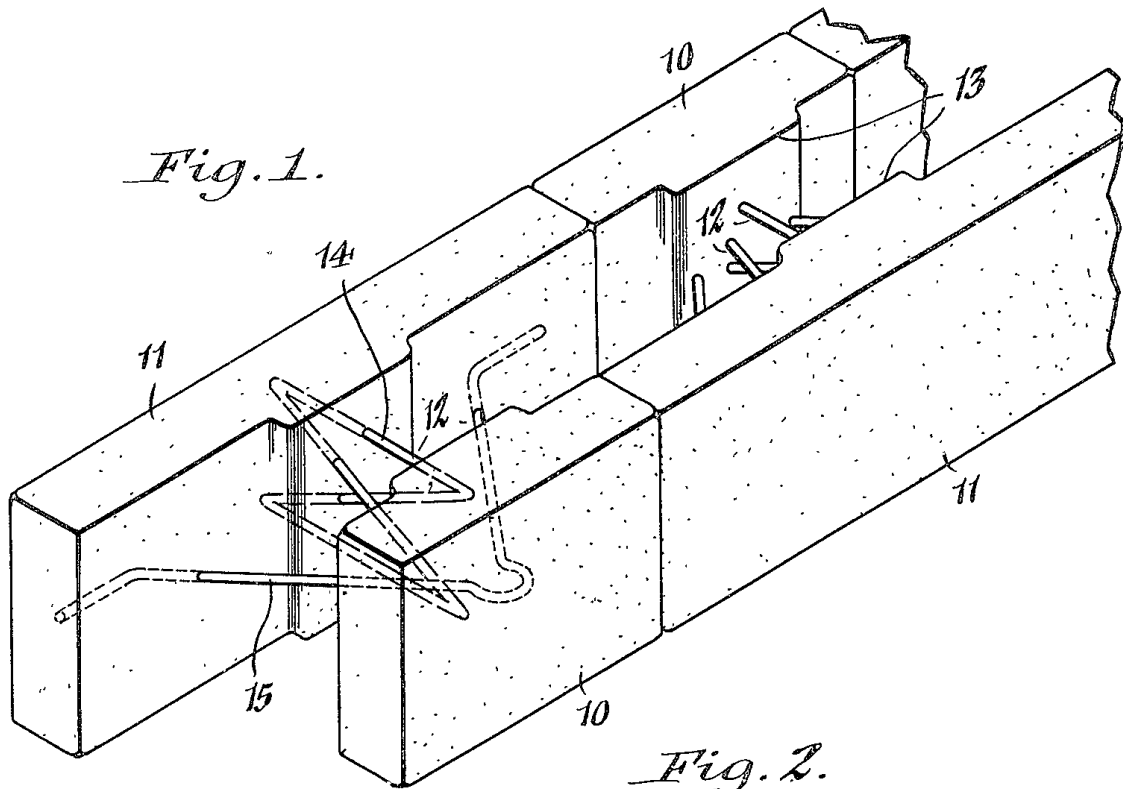
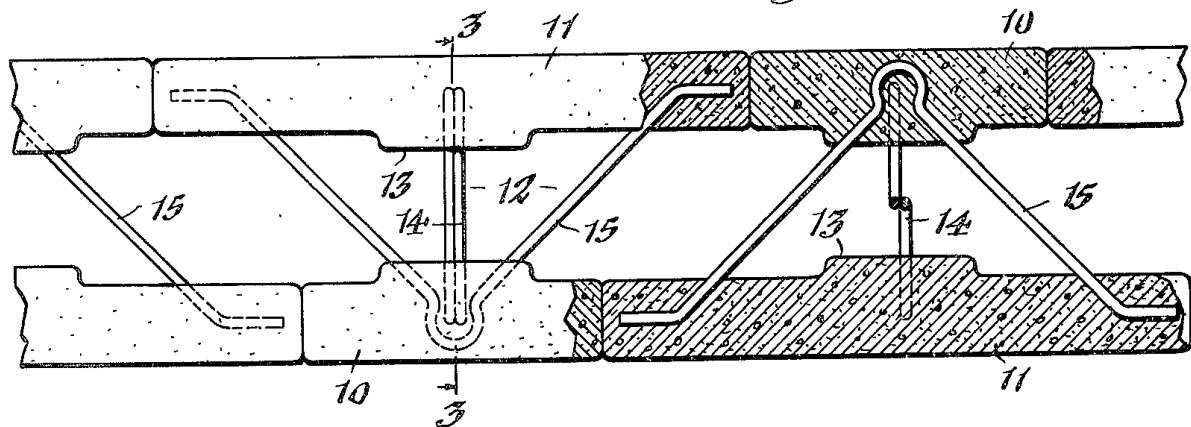
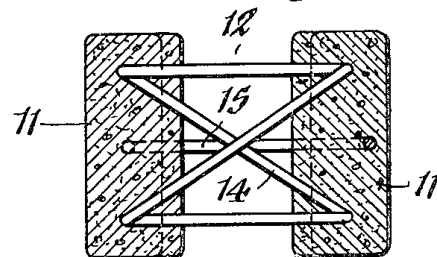
LI JUNLIN

Family 19/100 - FAMPAT - ©Questel

Title

(US2496872)

Building block with spaced slabs**Images**

Fig. 1.*Fig. 2.**Fig. 3.*

INVENTOR,
Leon A. Hallstead,
 BY *Walter P. Leyer*
 ATTORNEY.

Publication numbers with kind code & date

US2496872

A 1950-02-07 US2496872



Inventors

HALLSTEAD LEON A

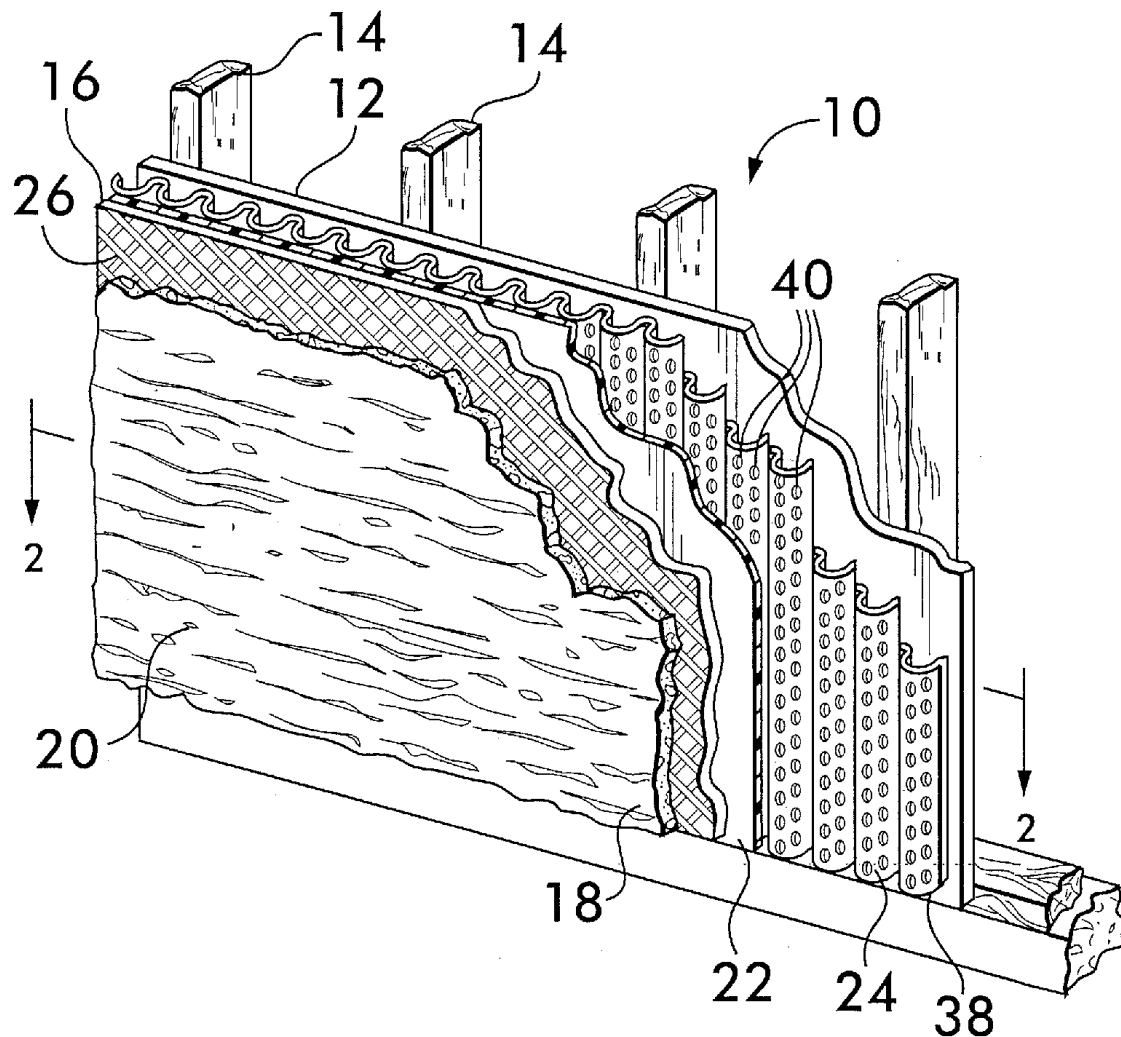
Latest standardized assignees - inventors removed

X T **BUILDING** BLOCK

Family 20/100 - FAMPAT - ©Questel

Title

(US20070051069)

Composite **Building** Material for Cementitious Material **Wall** Assembly**Images****Publication numbers with kind code & date**
[US20070051069](#) A1 2007-03-08 US20070051069

[CA2559160](#) A1 2007-03-07 CA2559160
**Abstract**

(US20070051069)

A composite **building** material includes at least one membrane, a spacer material bonded to one face of the membrane, and a lath bonded to an opposite face of the membrane. The components of the composite **building** material are installed simultaneously as an integral unit within a **wall**, roof or like assembly. The lath is preferably made of plastic or metal and is used to support cementitious material such as stucco, mortar, plaster, concrete and the like. The spacer material provides ventilation and drainage passages and is preferably provided as separate or integrally-formed spacer elements, an **openwork** mat, a corrugated material, or the like. Preferably, the membrane is **building** paper, tar paper, roofing felt, house-wrap material or like weather-resistive material. A **wall**/roof assembly and a method of assembling a **wall**/roof structure are also disclosed.

Inventors

GRIMES MELISSA

Latest standardized assignees - inventors removed

BENJAMIN OBDYKE

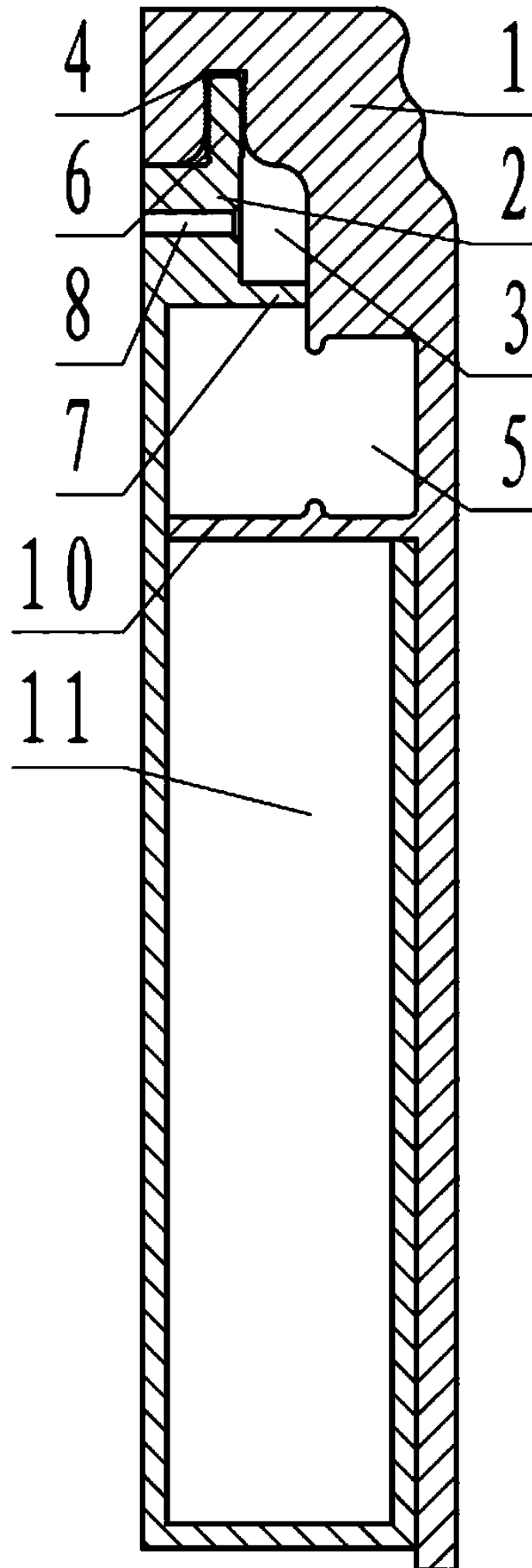
Family 21/100 - FAMPAT - ©Questel

Title

(CN204662894U)

Skirting line in fixed cassette area distribution groove

Images



Publication numbers with kind code & date

CN204662894

U 2015-09-23 CN204662894U



Abstract

(CN204662894)

The utility model relates to a **building** fitment is used for other parts or the component between floor and **wall** or ceiling and the **wall**, concretely relates to skirting line in fixed cassette area distribution groove. This skirting line comprises body and fixed cassette, clamping part that the upper portion at body back fretwork formed, and its top is equipped with the draw -in groove that extends to the body upper surface, and the lower part is equipped with the inserting groove, fixed cassette upper portion bodiness, it on surface vertical upwards be equipped with with draw -in groove matched with card strip, be equipped with the limiting plate in the below of one side of facing the body, the bodiness position is equipped with the fixed orifices, its characterized in that, it is protruding to be equipped with the strip respectively on the contact surface of draw -in groove and card strip, the bottom of inserting groove is equipped with the apron, its below fretwork forms the distribution slot part, the lower part downwardly extending of fixed cassette forms the cross section to the distribution slot part and is the distribution groove that " U " appeared. The skirting line has distribution groove function concurrently, can improve the efficiency of construction, saves the fixture and fitting fare and uses to fixed firm, easy dismounting to the skirting line.

Inventors

LUO XIAOHUA

Latest standardized assignees - inventors removed

XUANCHENG OUPAIDE NEW BUILDING MATERIAL

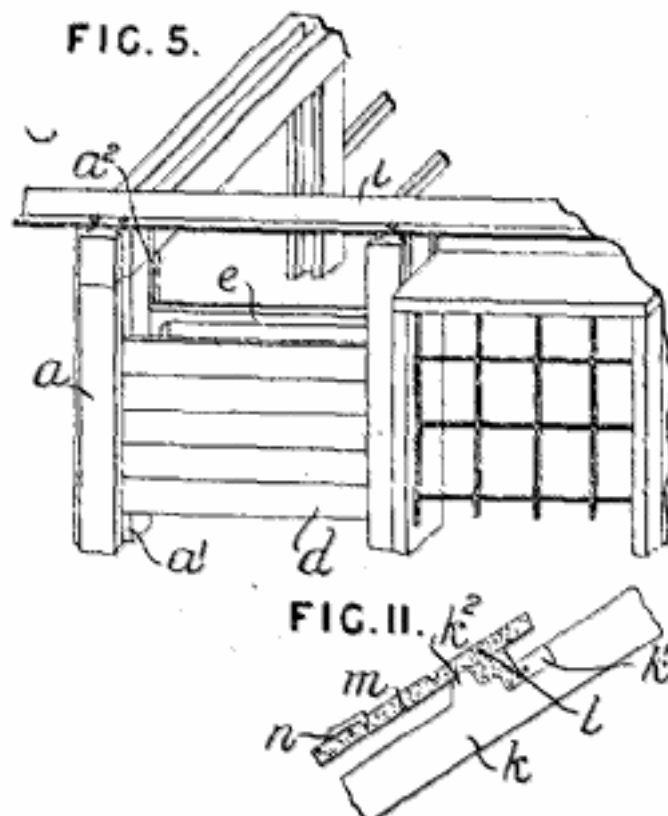
Family 22/100 - FAMPAT - ©Questel

Title

(GB-570595)

Improvements in **building** construction

Images



Publication numbers with kind code & date

GB570595

A 1945-07-13 GB-570595



Abstract

(GB570595)

570,595. Walls. McTAGGART, A. M. July 29, 1943, No. 12348. [Class 20 (iv)] A wall-structure consists of concrete posts a each having two sets of channels a<1>, a<2> for inner and outer spaced concrete members which slide into position. The outer members d overlap after the manner of weather-boards; the inner members e may be of openwork surface and lined with plaster board or the like. During assembly a light metal girder i may span the posts and maintain them in alignment. Singlygrooved posts may be used in the interior of the building. The concrete may be reinforced, such reinforcements being used to secure members at the corners or junctions. The roofbeams k are formed with bayonet slots k<1> to take supports l which abut against projections k<2>. Plates m rest between the supports l and are slotted to carry the tiles n. Alternatively L- shaped tiles may engage the members k<2> directly.

Latest standardized assignees - inventors removed

ANDREW MCCORMICK MCTAGGART

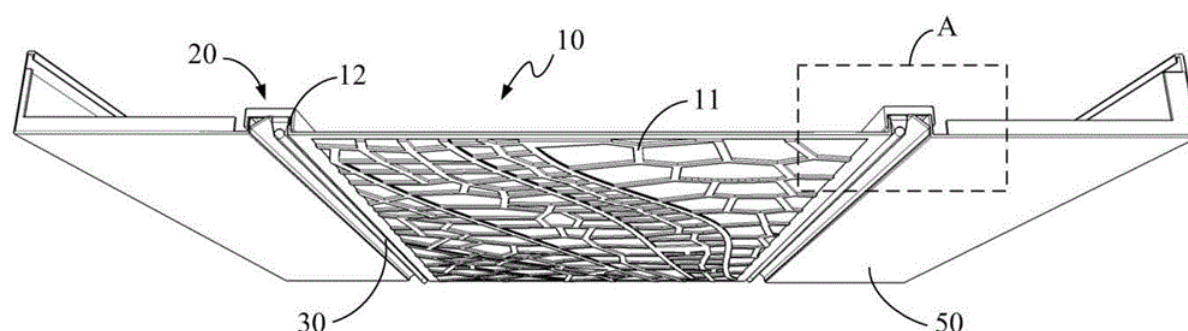
Family 23/100 - FAMPAT - ©Questel

Title

(CN103953168)

Hollow modeling decorative surface structure without overlapping, and mounting method thereof

Images



Publication numbers with kind code & date

CN103953168	B	2016-11-16	CN103953168B
CN103953168	A	2014-07-30	CN103953168



Abstract

(CN103953168)

The invention relates to a hollow modeling decorative surface structure without overlapping, and a mounting method thereof, and relates to the field of indoor and outdoor decoration. The structure solves the problems that the durability and the heat dissipation are poor, the surface has high possibility of pollution by static electricity, and the decoration effect is affected due to shadow generated by the pollution in the existing transparent film ceiling. A decorative surface layer consists of a decorative surface plate which is fixed on a frame main body; a metal hollow decorative plate is inserted in an opening of the decorative surface layer; a light groove plate is positioned between the decorative surface layer and the metal hollow decorative plate, and a light generating unit is arranged in the light groove plate. The mounting method comprises the following steps: 1, fixing the decorative surface plate on the frame main body to form the decorative surface layer, and mounting the light groove plate on the inner side of the opening of the decorative surface layer; 2, fixing the metal hollow decorative plate to the light groove plate; 3, mounting the light generating unit in the light groove plate. The decorative surface structure can prevent static pollution, dust is difficult to accumulation, and the light generating unit can naturally dissipate heat, so that the service life is prolonged. The metal hollow decorative plate is made of A-class fire retardant materials, the durability and the heat dissipation are good, and the metal hollow decorative plate is convenient to disassemble and assemble, which is beneficial to the changing of the shapes of the ceiling, as well as the later cleaning and maintenance and the like.

Inventors

WANG HUIPING

LIU CHUN

JIN JING

LIU YONG

JIANG YINI

ZHOU YIFANG

ZHANG YONG

ZHANG YU

MA YUZHE

Latest standardized assignees - inventors removed

SHANGHAI BUILDING DECORATION ENGINEERING

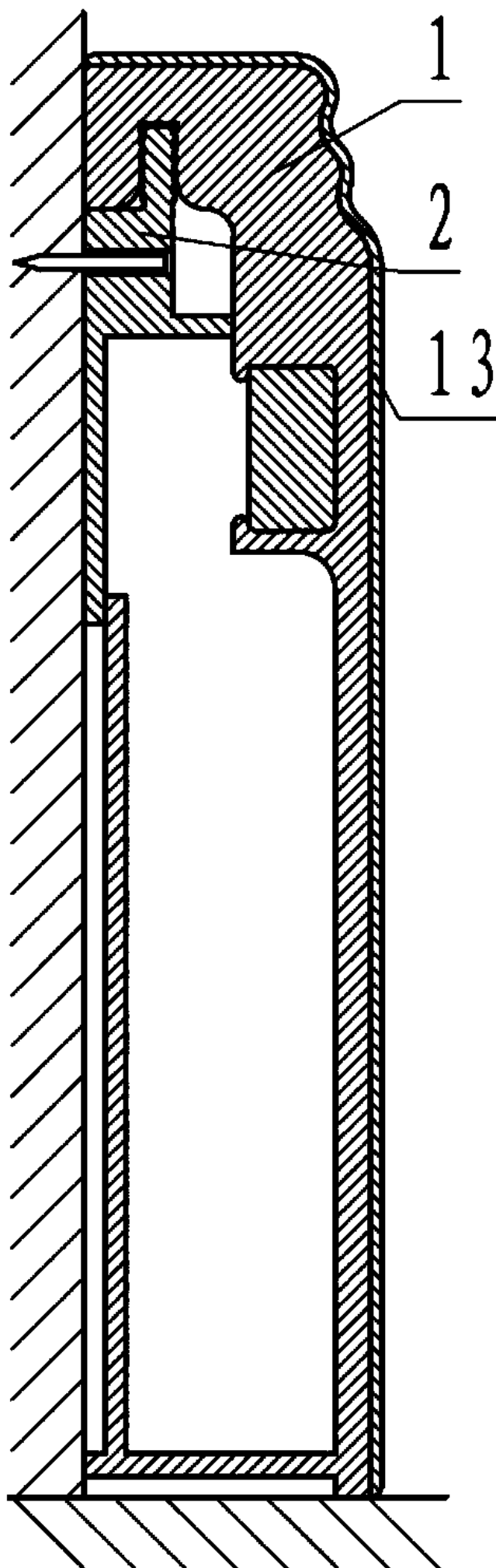
Family 24/100 - FAMPAT - ©Questel

Title

(CN204662890U)

Take external corner skirting line ornamental strip in distribution groove

Images



Publication numbers with kind code & date

CN204662890 U 2015-09-23 CN204662890U

**Abstract**

(CN204662890)

The utility model relates to a **building** fitment is used for other parts or the component between floor and **wall** or ceiling and the **wall**, concretely relates to take external corner skirting line ornamental strip in distribution groove. Including skirting line and external corner connecting device, wherein, the skirting line comprises body and the fixed cassette of a plurality of, external corner connecting device comprises two panels that are the external corner that intersect vertically, and the dual board that constitutes the external corner is unanimous with the outer surface profile of body, the back that constitutes the dual board of external corner be equipped with respectively one with the crossing gusset of panel, one side that each gusset is relative with the body be equipped with one with the body on inserting groove assorted grafting piece. The utility model provides a skirting line has distribution groove function concurrently, can improve the efficiency of construction, saves the fixture and fitting fare and uses to easy dismounting, external corner connecting device simple structure wherein is compact, can hold setting up the distribution groove, and is good to skirting line decorative effect.

Inventors

LUO XIAOHUA

Latest standardized assignees - inventors removedXUANCHENG OUPAIDE NEW **BUILDING** MATERIAL

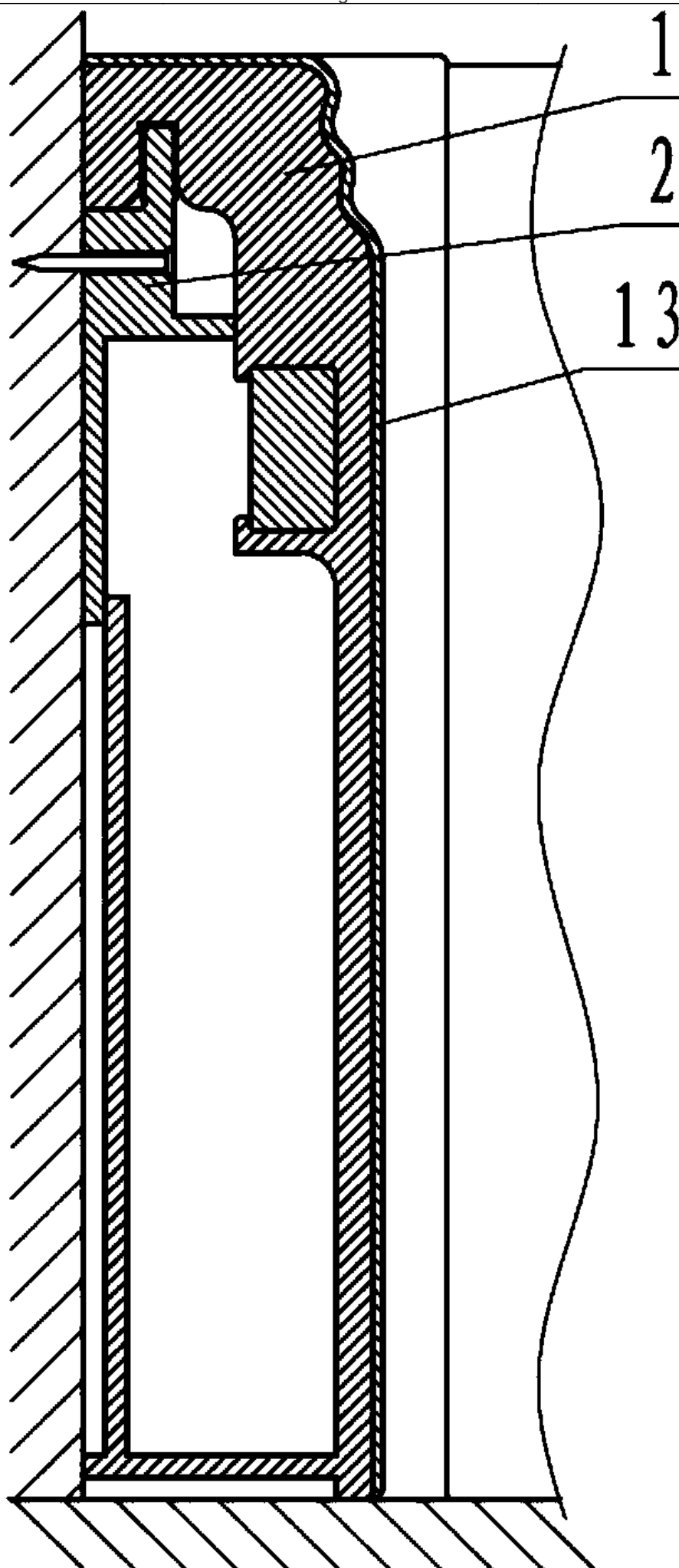
Family 25/100 - FAMPAT - ©Questel

Title

(CN204662891U)

Take reentrant corner skirting line ornamental strip in distribution groove

Images



Publication numbers with kind code & date

CN204662891 U 2015-09-23 CN204662891U

**Abstract**

(CN204662891)

The utility model relates to a **building** fitment is used for other parts or the component between floor and **wall** or ceiling and the **wall**, concretely relates to take reentrant corner skirting line ornamental strip in distribution groove. Including skirting line and reentrant corner connecting device, wherein, the skirting line comprises body and the fixed cassette of a plurality of, reentrant corner connecting device comprises two panels that are the reentrant corner that intersect vertically, and the dual board that constitutes the reentrant corner is unanimous with the outer surface profile of body, the back that constitutes the dual board of reentrant corner be equipped with respectively one with the crossing gusset of panel, one side that each gusset is relative with the body be equipped with one with the body on inserting groove assorted grafting piece. The utility model provides a skirting line has distribution groove function concurrently, can improve the efficiency of construction, saves the fixture and fitting fare and uses to easy dismounting, reentrant corner connecting device simple structure wherein is compact, can hold setting up the distribution groove, and is good to skirting line decorative effect.

Inventors

LUO XIAOHUA

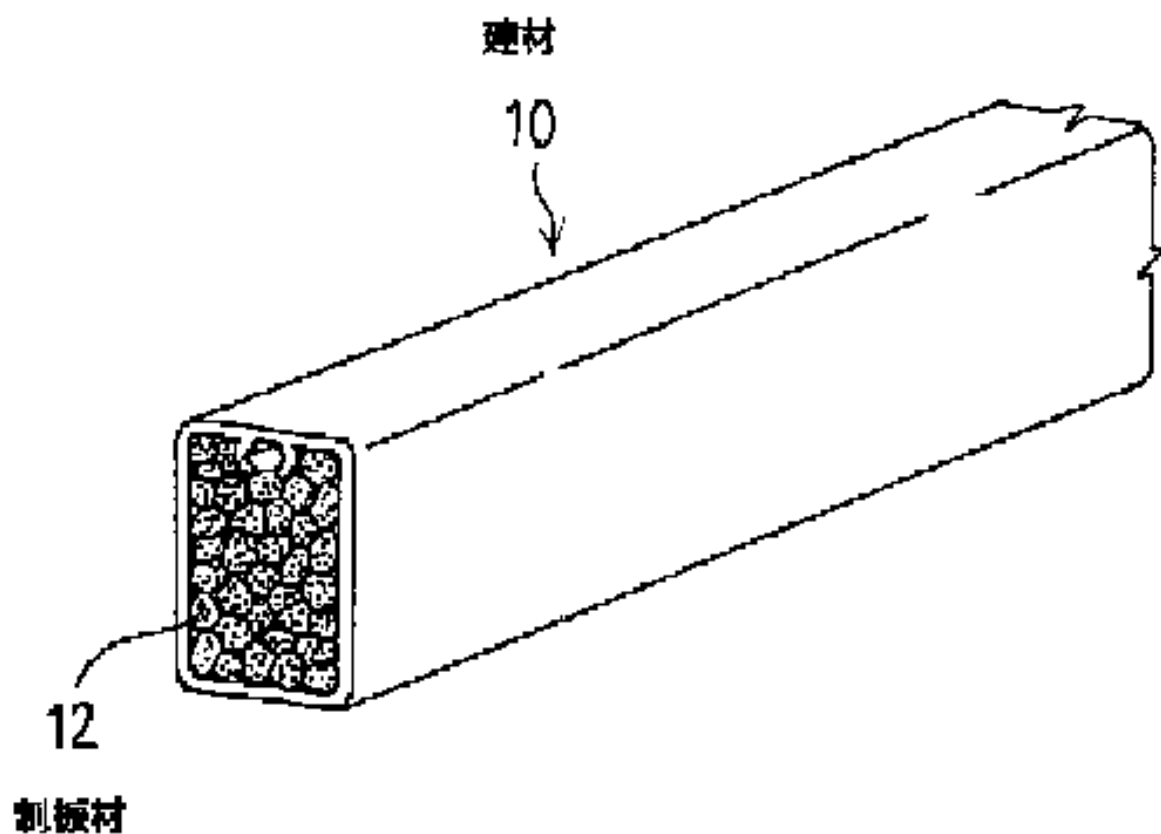
Latest standardized assignees - inventors removedXUANCHENG OUPAIDE NEW **BUILDING** MATERIAL

Family 26/100 - FAMPAT - ©Questel

Title

(JP08004364)

Building material in which sounding is prevented**Images**

**Publication numbers with kind code & date**[JP08004364](#)

A 1996-01-09 JP08004364

**Abstract**

(JP08004364)

PURPOSE: To prevent the generation of rasping noises at the time of a strong wind by filling, bonding or engaging and mounting a specified vibration-damping material in a space section constituted by a **building** material.

CONSTITUTION: A hollow section of a **building** material 10 configuring a handrail grating is filled with small slices of a chloroprene sponge rubber as a vibration- damping material. The same structure is also adopted as required for a panel having a space, which can be filled, and being used for constituting the **building** material 10 or a screen body for styles and fences as other **building** materials arranged on the outdoor side. A sponge such as a sponge rubber, etc., of an EPDM and

an expanded olefin can also be adopted besides a chloroprene sponge rubber as the small slices while a particulate matter such as sand and expanded polystyrene beads is also selected as required as the vibration-damping material. Accordingly, the vibration-damping material installed into the space section of the **building** material increases the attenuation constant of the **building** material, and reduces amplitude, thus preventing the generation of audible sounds from the **building** material at the time of a strong wind.

COPYRIGHT: (C)1996,JPO

Inventors

Mizutani Itirou

Hiroaki Nishimura

Masashi Ito

Sawayama Eri

Latest standardized assignees - inventors removed

JAPAN **BUILDING** TESTING INSTITUTE

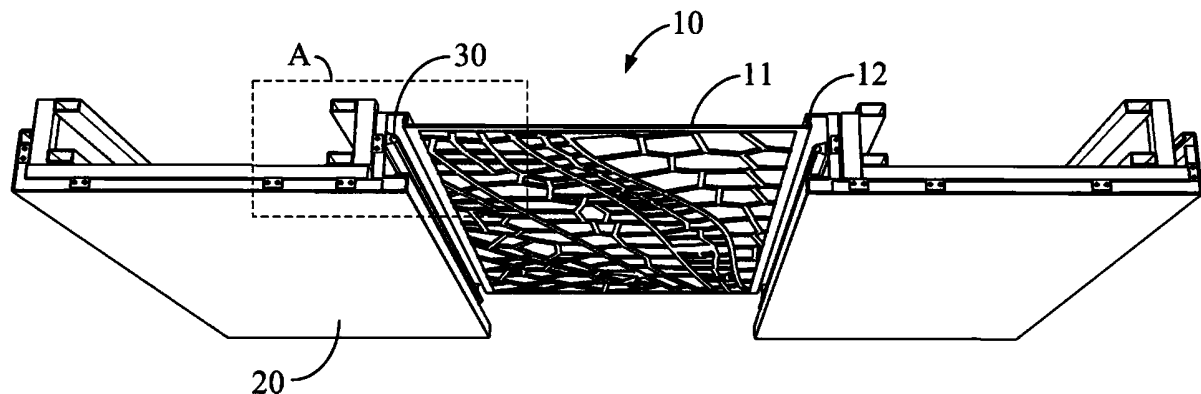
Family 27/100 - FAMPAT - ©Questel

Title

(CN203867042U)

Profiling hollow modeling veneer structure

Images



Publication numbers with kind code & date

[CN203867042](#) U 2014-10-08 CN203867042U



Abstract

(CN203867042)

The utility model discloses a profiling hollow modeling veneer structure and relates to the technical field of indoor and outdoor decoration. The profiling hollow modeling veneer structure aims at solving the problems that an existing light transmitting film ceiling is poor in durability and radiating performance, the surface of the ceiling is prone to static pollution, a plurality of shadows which are not even in luminance occur on the polluted and damaged ceiling, and the indoor decoration effect is affected. The veneer structure is a two-level level-changing model fixed to a frame body and is provided with a plane level and a level-changing layer. The plane layer is fixedly provided with metal profiling hollow veneer. A groove between the plane layer and the level-changing layer is provided with a light generating unit. The veneer structure can prevent static pollution, dust is not prone to accumulation, the light generating unit can automatically dissipate heat, and the service life of the veneer structure can be easily prolonged. The metal profiling hollow veneer is made of A level inflaming retarding fireproof materials, durability and the radiating performance are good, demounting and mounting are convenient, and the work of ceiling model changing, later-stage cleaning and maintaining and the like is facilitated. The profiling hollow modeling veneer structure is particularly suitable for indoor decoration of public places such as supermarkets, hotels and the like.

Inventors

WANG HUIPING

LIU CHUN

JIN JING

LIU YONG

JIANG YINI

ZHOU YIFANG

ZHANG YONG

ZHANG YU

MA YUZHE

Latest standardized assignees - inventors removed

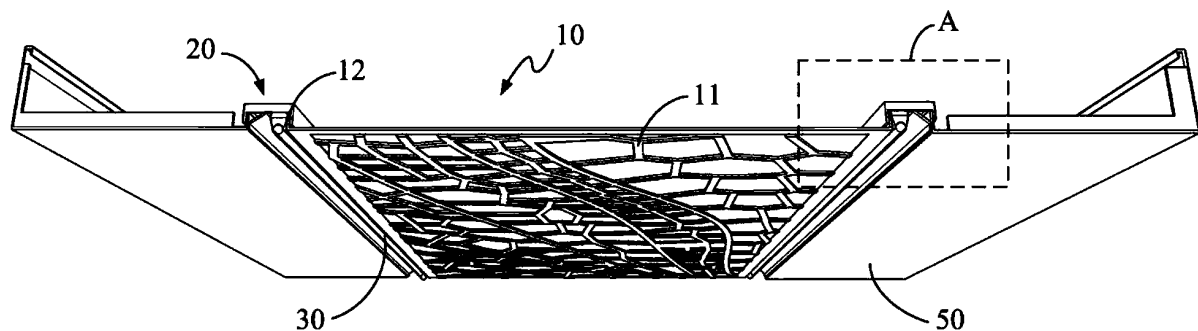
SHANGHAI BUILDING DECORATION ENGINEERING

Family 28/100 - FAMPAT - ©Questel

Title

(CN203867118U)

Hollowed-out non-overlapping facing structure

Images**Publication numbers with kind code & date**[CN203867118](#)

U 2014-10-08 CN203867118U

**Abstract**

(CN203867118)

The utility model provides a hollowed-out non-overlapping facing structure, and relates to the technical field of indoor and outdoor decoration. The hollowed-out non-overlapping facing structure aims to solve the problems that according to an existing light-transmitting film suspended ceiling, durability and heat dissipation performance are poor, the surface is prone to electrostatic pollution, a plurality of nonuniform bright and dark shadows will occur after the pollution is caused, and an indoor decoration effect is affected. The hollowed-out non-overlapping facing structure is fixed to a frame body, and a facing layer is composed of facing plates fixed to the frame body; a hollowed-out metal decoration plate is embedded in an opening of the facing layer and located on the same horizontal plane as the facing layer; at least one lamp groove plate is located between the facing layer and the hollowed-out metal decoration plate, and a light generation unit is installed in the lamp groove plate. The hollowed-out non-overlapping facing structure is capable of preventing the electrostatic pollution and not prone to dust accumulation, the light generation unit enables heat to be dissipated naturally, and service life is prolonged. The hollowed-out metal decoration plate is made of A-level antflaming fireproof materials, so that durability and heat dissipation performance are good. Disassembly and assembly are convenient, so that change of the shape of the suspended ceiling is facilitated, and cleaning, maintaining and the like in the later period are facilitated.

Inventors

WANG HUIPING

LIU CHUN

JIN JING

LIU YONG

JIANG YINI

ZHOU YIFANG

ZHANG YONG

ZHANG YU

MA YUZHE

Latest standardized assignees - inventors removed

SHANGHAI BUILDING DECORATION ENGINEERING

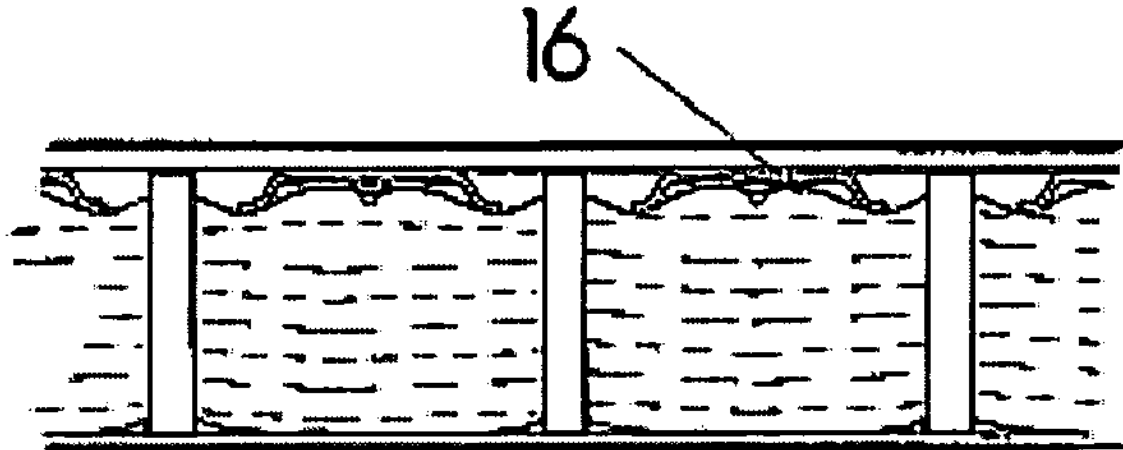
Family 29/100 - FAMPAT - ©Questel

Title

(WO2009152491)

Device and method to provide air circulation space proximate to insulation material

Images



Publication numbers with kind code & date

US20100229498	A1	2010-09-16	US20100229498				
US7788868	B2	2010-09-07	US7788868				
US20100101153	A1	2010-04-29	US20100101153				
WO2009/152491	A3	2010-03-25	WO2009152491				
US7654051	B2	2010-02-02	US7654051				
WO2009/152491	A2	2009-12-17	WO2009152491				
US20080245010	A1	2008-10-09	US20080245010				

US7788868 B2 2010-09-07 US7788868    

US20100101153 A1 2010-04-29 US20100101153    

WO2009/152491 A3 2010-03-25 WO2009152491    

US7654051 B2 2010-02-02 US7654051    

WO2009/152491 A2 2009-12-17 WO2009152491

US20080245010 A1 2008-10-09 US20080245010    

Abstract

(WO2009/152491)

Insulation spacer devices, methods and related construction techniques are provided. An exemplary device may include a body having a plurality of openings defining an **openwork**, to allow the passage of air therethrough when placed in contact with insulation material. The device may further include a plurality of spacer struts and/or spacing depressions fixedly attached to the body. The struts may be configured to maintain a predetermined distance between a first side of the insulation material and a **building** surface. The body and struts act together to define and maintain a space between the first side of the insulation material and the **building** surface, for example, for ventilation. The **building** surface can be the bottom face of a roof, an insulated attic floor, **wall** sheathing or a soundproofed demising **wall**, for example. The spacer device can be capable of being transported and stored together with, or as a separate item from, the insulation material, and can also be stored in nested layers. The device can also be stored in rolled form. The **openwork** of the device can additionally or alternatively include a sheet of Entangled net filaments or other similar material.

Inventors

POLLACK ROBERT W

Latest standardized assignees - inventors removed

HETTRICH HANSL

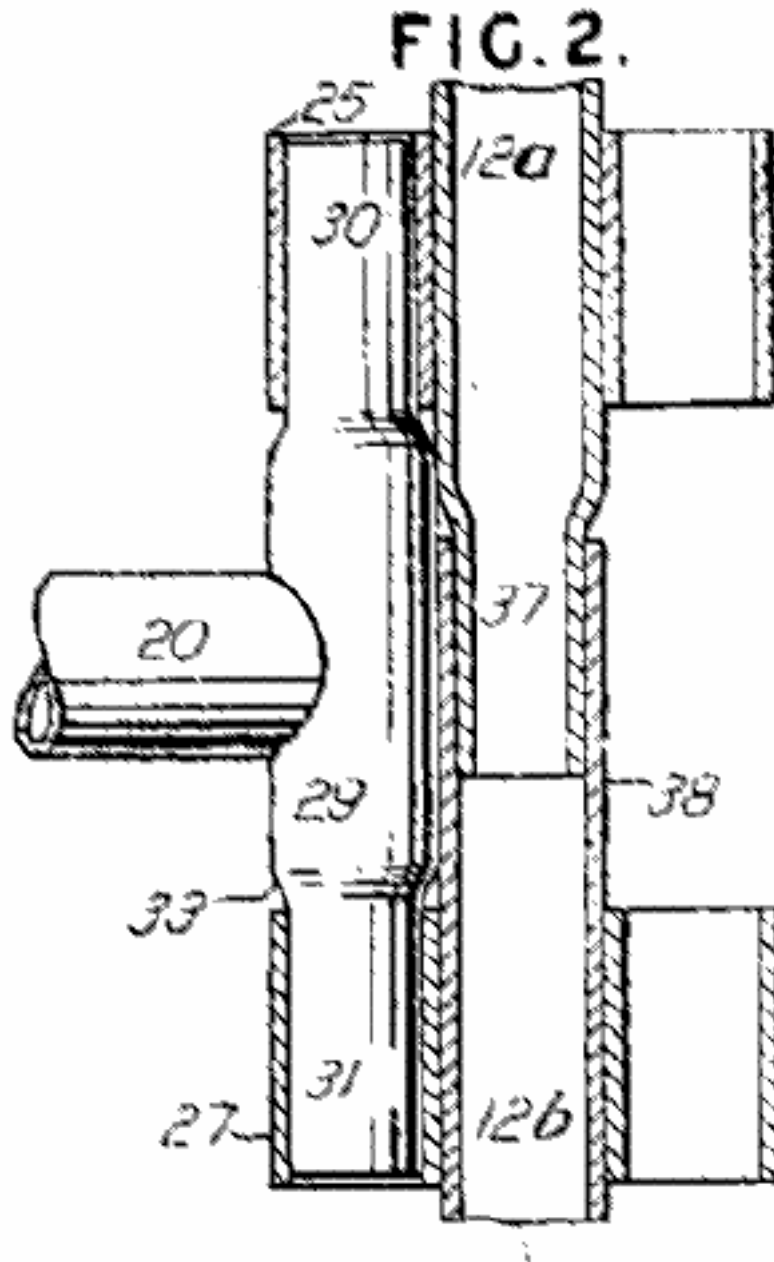
Family 30/100 - FAMPAT - ©Ouestel

Title

(GB-900915)

Improvements relating to scaffolding

Images

**Publication numbers with kind code & date**

GB900915	A	1962-07-11	GB-900915
BE580579	A	1959-11-03	BE-580579

**Abstract**

(GB900915)

900,915. Scaffolding. BRITISH **BUILDING** & ENGINEERING APPLIANCES Ltd. July 6, 1959 [July 10, 1958], No. 22104/58. Class 2. Scaffold uprights are formed of separate tubes 12a, 12b, Fig. 2, connected by spigot and socket 37, 38 and connected to a ledger, putlog, transom, or hand rail by offset sockets 25, 27, one on each tube, engaging spigots 30, 31 on a crosstube 29 on the end of the ledger &c. 20. In an alternative construction, Fig. 5 (not shown), the poles 12a, 12b each have a spigot engaging in a tube on the end of a transom. In a further arrangement, the crosstube on the ledger has a spigot at one end and a socket at the other and connects two parts of the standard. An horizontal scaffold stiffening angle iron is welded across the cross-tube and engages cross-tubes on other horizontal scaffold tubes. The spigots 30, 31, Fig. 2, seat on conical parts 33 to take up play in the connections in which also there may be incorporated a slot and key. A scaffolding is shown with some ledgers in the form of rectangular frames and the uprights formed by the side members of

scaffold frames formed with permanent transoms. The parts are constructed so that the relative levels of ledgers and putlogs are such as to provide level footboards. In the case of hand rails the upper socket may be slidable upwards on the scaffold standard to permit the hand rail to be engaged with the lower socket. A ledger 20, Fig. 5 (not shown), is in the form of a lattice girder. The ledgers may be provided with wire mesh toe-guards.

Inventors

DUBOIS WALTER MARCEL

HALE GEORGE HENRY

Latest standardized assignees - inventors removed

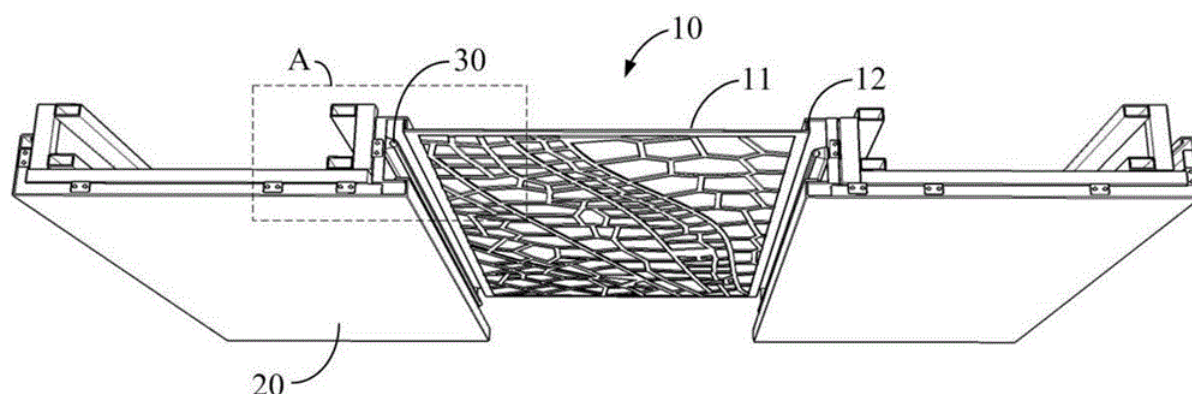
BRITISH BUILDING & ENGINEERI

Family 31/100 - FAMPAT - ©Questel

Title

(CN103953153)

Profiling hollow modeling facing structure and mounting method thereof

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

CN103953153	B	2016-05-04	CN103953153B
CN103953153	A	2014-07-30	CN103953153

**Abstract**

(CN103953153)

The invention discloses a profiling hollow modeling facing structure and a mounting method thereof, and relates to the technical field of indoor and outdoor decoration in order to solve the problems that the conventional light transmittance film ceiling is lower in durability and heat dissipation performance, the surface of the conventional light transmittance film ceiling is easily polluted by static electricity, and the decoration effect is affected by multiple shades of the polluted ceiling. The facing structure is a two-stage overlapping model fixed on a framework main body; a metal profiling hollow facing plate is fixed on a planar layer; a light generation unit is arranged in a groove between the planar layer and the overlapping layer. The mounting method comprises the steps: 1, fixing the metal profiling hollow facing plate on the planar layer, and mounting the facing plate on the overlapping layer; 2, mounting the light generation unit in the groove between the planar layer and the overlapping layer. The facing structure can prevent static electricity pollution and has low possibility of dust accumulation; the light generation unit can realize natural heat dissipation, and the service life of the light generation unit can be prolonged. The metal profiling hollow facing plate is made of a level-A flame retardant fireproof material, so that the durability and the heat dissipation performance are high; dismounting and mounting are facilitated, and the work such as transformation of the ceiling model and the later cleaning and maintenance can be executed favorably.

Inventors

WANG HUIPING

LIU CHUN

JIN JING

LIU YONG

JIANG YINI

ZHOU YIFANG

ZHANG YONG

ZHANG YU

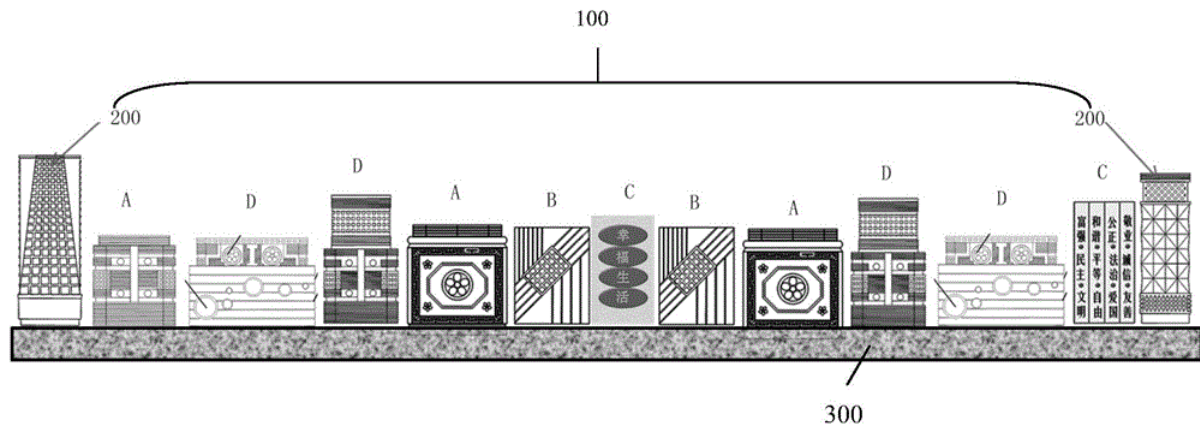
MA YUZHE

Latest standardized assignees - inventors removedSHANGHAI **BUILDING** DECORATION ENGINEERING

Family 32/100 - FAMPAT - ©Questel

Title

(CN109441215)

Reinforced concrete multifunctional landscape **wall** segment, **wall** and construction method thereof**Images****Publication numbers with kind code & date**[CN109441215](#) A 2019-03-08 CN109441215**Abstract**

(CN109441215)

The invention discloses a reinforced concrete multifunctional landscape **wall** segment, a **wall** and a construction method thereof. The landscape **wall** segment comprises a plurality of multifunctional landscape ornament single bodies formed by pouring of reinforced concrete, the single bodies can be selected from one or more of a miniature gardening pool, a lamp box, a carving piece, a landscape lamp pole, and a combination of a planting pool and a lamp box, the outer surfaces of the single bodies are provided with cultural and artistic performance areas which are composed by figures, patterns and/or cultural elements and integrated formed with the single bodies; and a reinforced concrete multifunctional landscape **wall** is formed by a plurality of **wall** segments collectively constructed on an integrate reinforced concrete foundation. The reinforced concrete multifunctional landscape **wall** segment and the **wall** are provided with the functions of containment, planting, illumination and the like at the same time, and meanwhile can independently show artistic charm in appearance molding and surface decorating, and beautify living environment.

Inventors

HUANG ZHENG GUO

WANG JIE

GONG WENYANG

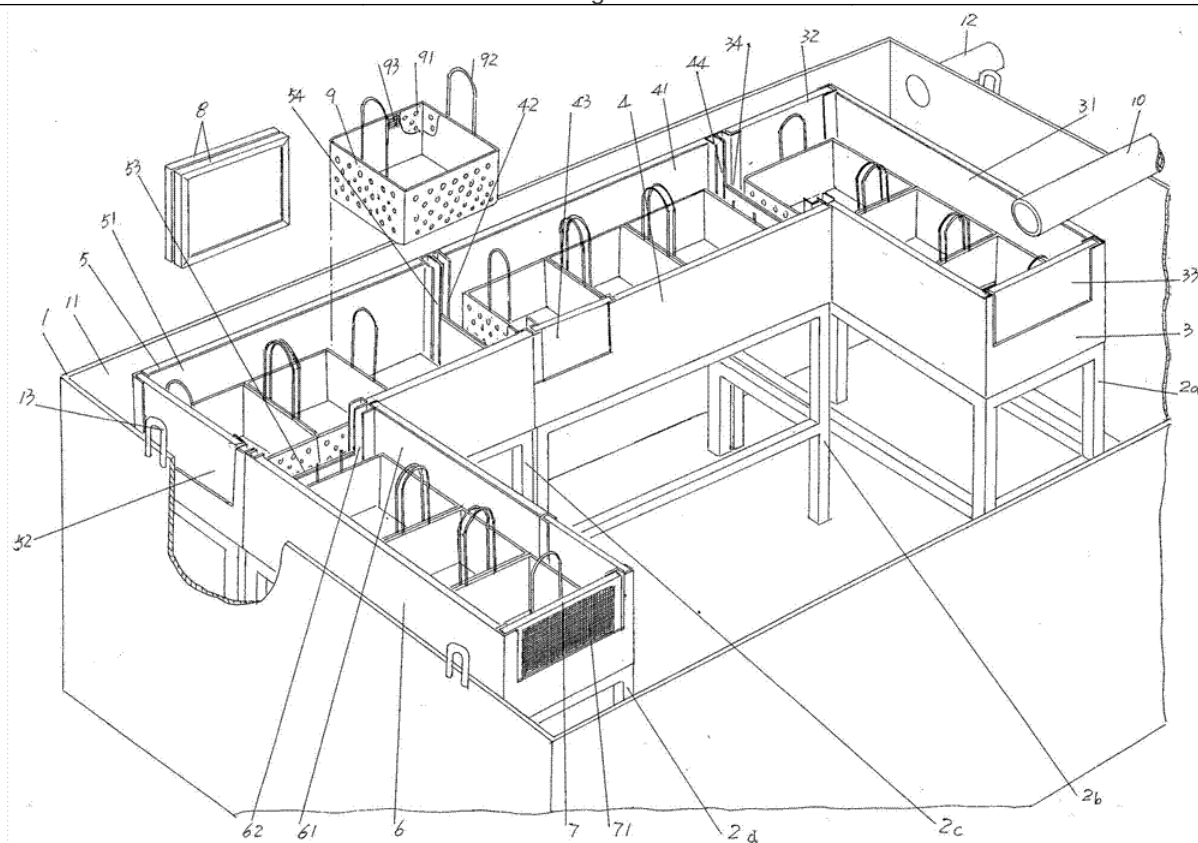
Latest standardized assignees - inventors removedHUNAN TIANZE **BUILDING** MATERIAL

Family 33/100 - FAMPAT - ©Questel

Title

(CN105312972)

Building-block type recycling device for waste slurry for grinding cast-in-situ terrazzo floor**Images**



Publication numbers with kind code & date

CN105312972 B 2017-07-28 CN105312972B

CN105312972 A 2016-02-10 CN105312972



Abstract

(CN105312972)

The invention discloses a **building**-block type recycling device for waste slurry for grinding a cast-in-situ terrazzo floor and belongs to environmental protection facilities for decoration and construction of buildings. The **building**-block type recycling device comprises a water collecting tank, a right box frame, a middle box frame, a transition box frame, a left box frame, a right waste slurry blocking box, a middle waste slurry blocking box, a transition waste slurry blocking box, a left waste slurry blocking box, a long-armed door and a sedimentation material extraction bucket. When the right waste slurry blocking box is started to be used, a converting door of the right waste slurry blocking box is replaced by a filtering door; when the right waste slurry blocking box and the middle waste slurry blocking box are started to be used at the same time, the long-armed door is inserted between a left guiding port of the middle waste slurry blocking box and a right guiding port of the transition waste slurry blocking box, and a converting door of the middle waste slurry blocking box is replaced by a filtering door; when the right waste slurry blocking box, the middle waste slurry blocking box and the transition waste slurry blocking box are applied at the same time, the long-armed door is inserted between a left guiding port of the transition waste slurry blocking box and a guiding port of the left waste slurry blocking box, and a converting door of the transition waste slurry blocking box is replaced by a filtering door; when the right waste slurry blocking box, the middle waste slurry blocking box, the transition waste slurry blocking box and the left waste slurry blocking box are started to be used at the same time, the long-armed door is removed. By the adoption of the **building**-block type recycling device, the using effect is good, the operation intensity is low, and the cost is low.

Inventors

SHEN JUFANG

LU XIAOJIANG

LU YAOBIN

GUO YUNDAN

LI YUJUAN

ZHOU WENYING

QIAN ZHIFENG

XU DONGPING

Latest standardized assignees - inventors removed

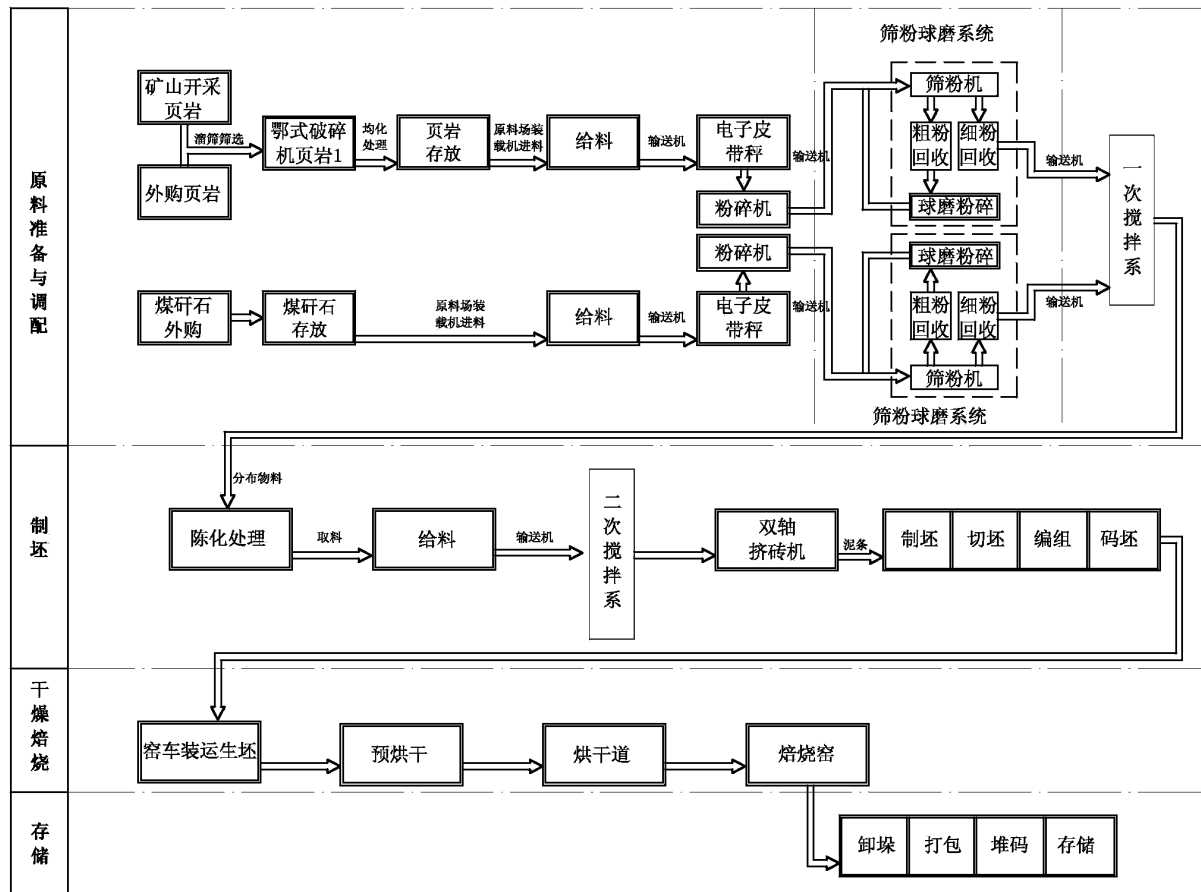
JIANGSU JIAYANGHUALIAN BUILDING & DECORATION

Family 34/100 - FAMPAT - ©Questel

Title

(CN104387025)

Full-internal combustion one-time palletizing burning production technology for energy-saving type sintered shale hollow blocks

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

CN104387025 B 2016-03-02 CN104387025B

CN104387025 A 2015-03-04 CN104387025

**Abstract**

(CN104387025)

The invention discloses a full-internal combustion one-time palletizing burning production technology for energy-saving type sintered shale hollow blocks. The production technology comprises the four steps of raw material preparation and blending, blank manufacturing, drying and palletizing burning, and storing. The production technology is characterized in that firstly, the raw material preparation and blending is performed, to be specific, shale is smashed and finely ground, coal gangue is smashed and finely ground, and then the shale and the coal gangue are mixed and blended; secondly, the blank manufacturing is performed, to be specific, raw materials are subjected to aging processing, mixed and stirred, and then, the blanks are manufactured, cut, grouped and stacked; thirdly, the drying and palletizing burning are performed; finally, the obtained products are stored. According to the full-internal combustion one-time palletizing burning production technology for the energy-saving type sintered shale hollow blocks, the resources are reasonably utilized, and the automation degree is high; qualified hollow bricks can be effectively and quickly produced, so that resources are saved and the cost is reduced.

Inventors

LIU HUA

LIU MING

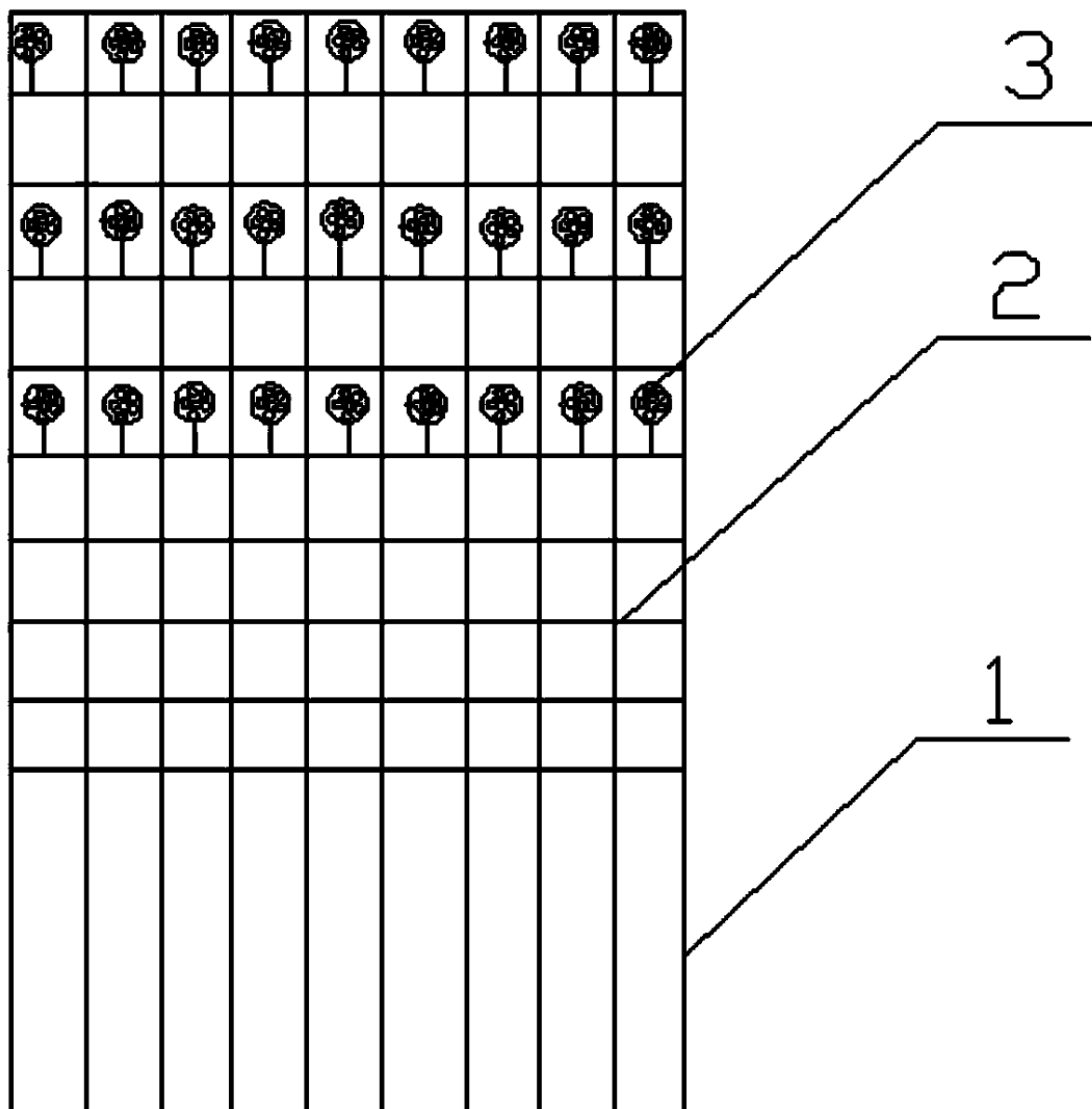
Latest standardized assignees - inventors removedCHONGQING FUXI **BUILDING** MATERIALS

Family 35/100 - FAMPAT - ©Questel

Title

(CN104453675)

Noxious gas preventing screen door and window

Images**Publication numbers with kind code & date**[CN104453675](#)

A

2015-03-25

CN104453675

**Abstract**

(CN104453675)

The invention provides a noxious gas preventing screen door and window comprising a window frame, a window screen and a gas absorption device. The gas absorption device is arranged on the window screen and comprises a supporting rod, an outer fiber wrapping layer and active carbon granules. The gas absorption device is movably connected with the window screen through the supporting rod. The outer fiber wrapping layer is arranged on the top of the supporting rod. The active carbon granules are contained in the outer fiber wrapping layer. The noxious gas preventing screen door and

window has the advantages that the structure is simple, installation is convenient, noxious gas can be effectively absorbed due to the fact that the gas absorption device is arranged, outdoor noxious gas is prevented from entering a room, indoor air quality is improved, and physical health of people is facilitated.

Inventors

ZHANG SHUWEN

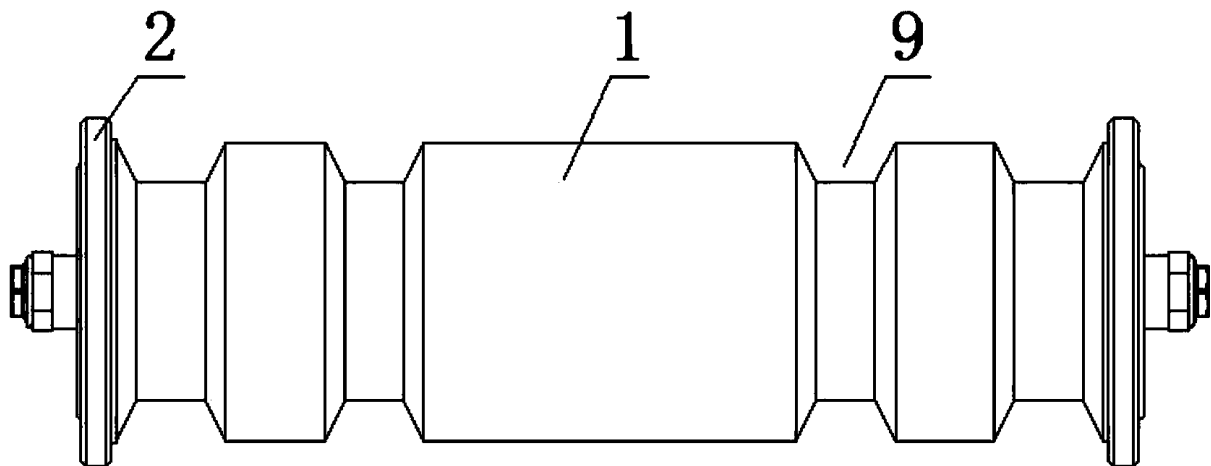
Latest standardized assignees - inventors removedTIANJIN BINGANG ZHENGFA **BUILDING** DOOR & WINDOW & CURTAIN **WALL**

Family 36/100 - FAMPAT - ©Questel

Title

(CN204266606U)

Material distribution roller assembly for slurry laying device

Images**Publication numbers with kind code & date**[CN204266606](#) U 2015-04-15 CN204266606U**Abstract**

(CN204266606)

The utility model discloses a material distribution roller assembly for a slurry laying device, and belongs to the technical field of **building** tools. The material distribution roller assembly comprises a material distribution roller and wheels, and the wheels are connected with the end faces of the two ends of the material distribution roller. An axial through hole is formed in the center of the material distribution roller, and a center shaft is mounted in the through hole. The shaft neck positions at the two ends of the center shaft are connected with the wheels through bearings respectively, and a plurality of annular material distribution grooves are formed in the surface of the material distribution roller. According to the technical scheme, the material distribution roller with the material distribution grooves is arranged, the axial distribution density, the interval and the groove depth of the material distribution grooves in the material distribution roller are all determined according to block structures and slurry laying demands, material and slurry separation is achieved, and the slurry is evenly laid in a fixed point mode. The material distribution roller is mounted on the center shaft and can rotate relative to the center shaft. Meanwhile, the wheels which are mounted at the two ends of the center shaft through the bearings are connected with the end faces of the material distribution roller through screws, the material distribution roller can be driven to rotate when the wheels rotate, and convenient and efficient slurry laying is achieved.

Inventors

DENG XINGGUI

LIN BO

CAI ANGU

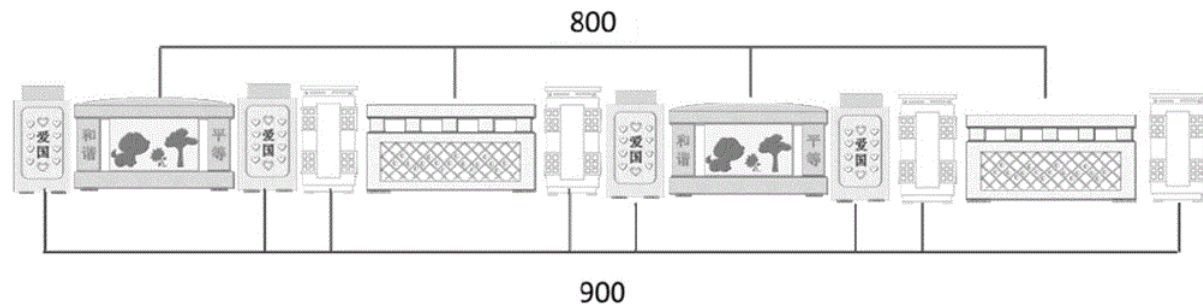
Latest standardized assignees - inventors removedZHONGCHENG JIANYUAN NEW **BUILDING** MATERIALS

Family 37/100 - FAMPAT - ©Questel

Title

(CN109441221)

Reinforced concrete plate-column-combination fabricated type multifunctional landscape wall and construction method thereof

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

CN109441221 A 2019-03-08 CN109441221

**Abstract**

(CN109441221)

The invention discloses a reinforced concrete plate-column-combination fabricated type multifunctional landscape wall and a construction method thereof. The reinforced concrete plate-column-combination fabricated type multifunctional landscape wall comprises a plurality of adjacent connected reinforced concrete multifunctional plates and reinforced concrete multifunctional columns. The multifunctional plates comprise planting pools and lamp boxes made of reinforced concrete, and the multifunctional columns comprise lamp boxes made of reinforced concrete or planting pools. The reinforced concrete plate-column-combination fabricated type multifunctional landscape wall is provided with a plurality of functions of containment, planting, illumination, cultural and artistic presentation and the like, and formed by fabricating and combining the multifunctional plates and the multifunctional columns provided with cavities of a plurality of models according to different requirements, and one or more plates and columns can be replaced according to the requirements. According to the multifunctional landscape wall, cultural and artistic elements of the surfaces of the plates and columns, texture of the surface of concrete and beautiful scenery of flowers and plants are presented during the daytime; and lighting effects through scattering through a plurality of light-passing holes and light-passing patterns are presented, and meanwhile auxiliary lighting can be provided for pedestrians at night.

Inventors

HUANG ZHENG GUO

WANG JIE

GONG WENYANG

Latest standardized assignees - inventors removed

HUNAN TIANZE BUILDING MATERIAL

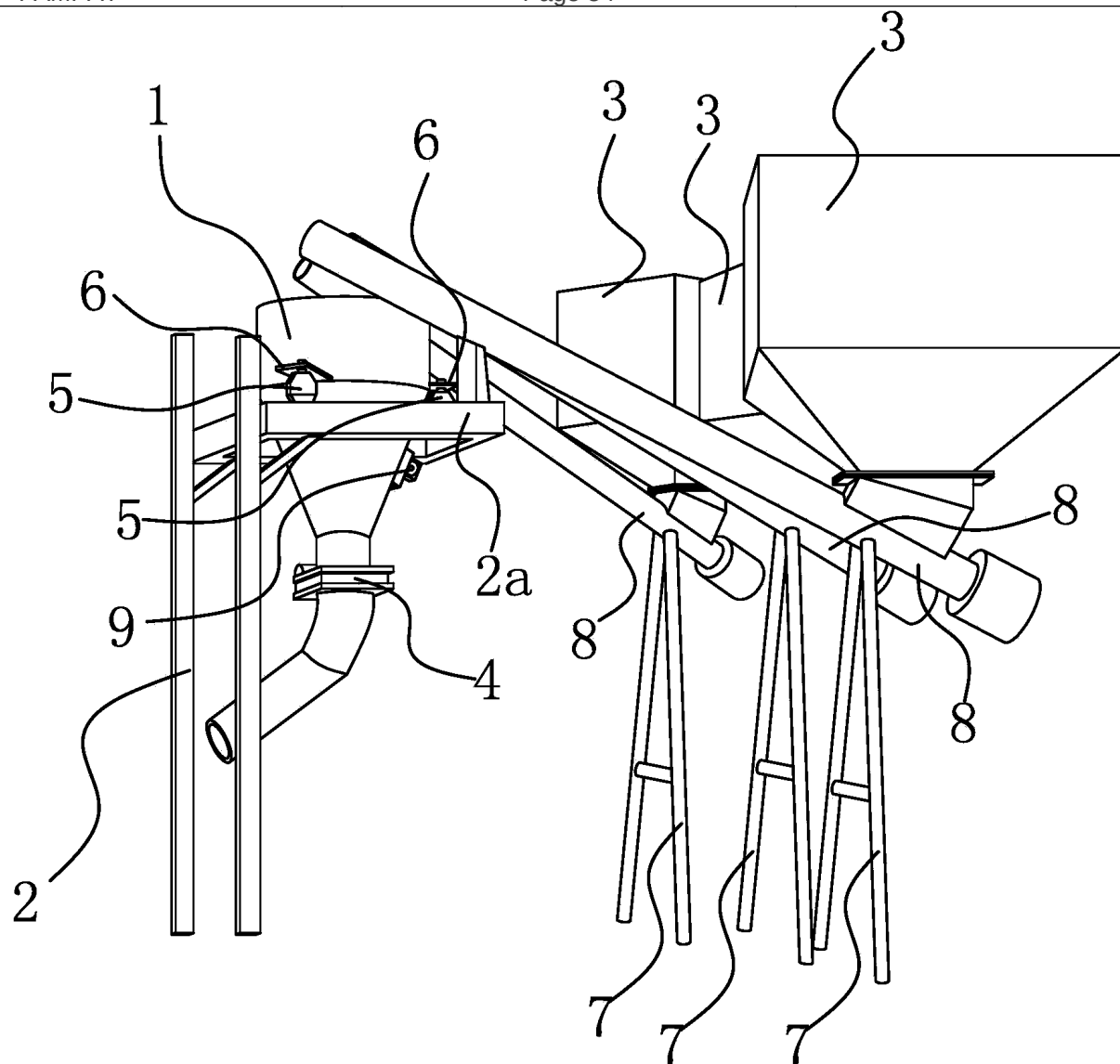
Family 38/100 - FAMPAT - ©Questel

Title

(CN203973768U)

Mixing and feeding device of color brick pigment

Images



Publication numbers with kind code & date

CN203973768

U 2014-12-03 CN203973768U



Abstract

(CN203973768)

The utility model provides a mixing and feeding device of color brick pigment, belongs to the technical field of **building** material production, and aims at solving the problems that in the prior art, color brick pigment is added manually, labor is wasted, and the automation degree is low. The mixing and feeding device of color brick pigment comprises an installation frame, a weighing material box, and at least one hopper for storing color brick pigment, wherein the bottom of the weighing material box is provided with a material outlet and a discharge valve for controlling the material outlet to be opened or closed; the installation frame is provided with a frame-shaped installation frame; the weighing material box is hung in and connected to the installation frame; a weighing sensor for weighing the color brick pigment in the weighing material box is arranged between the weighing material box and the installation frame; the hoppers are also connected with a conveying mechanism capable of conveying the color brick pigment in the hoppers into the weighing material box. The mixing and feeding device can be used for quantitatively adding the color brick pigment into a stirring cylinder, and has a relatively high automation degree.

Inventors

YANG XIAOHUA

YANG YI

YANG FEI

XU HONGYI

SHAO GUANGANG

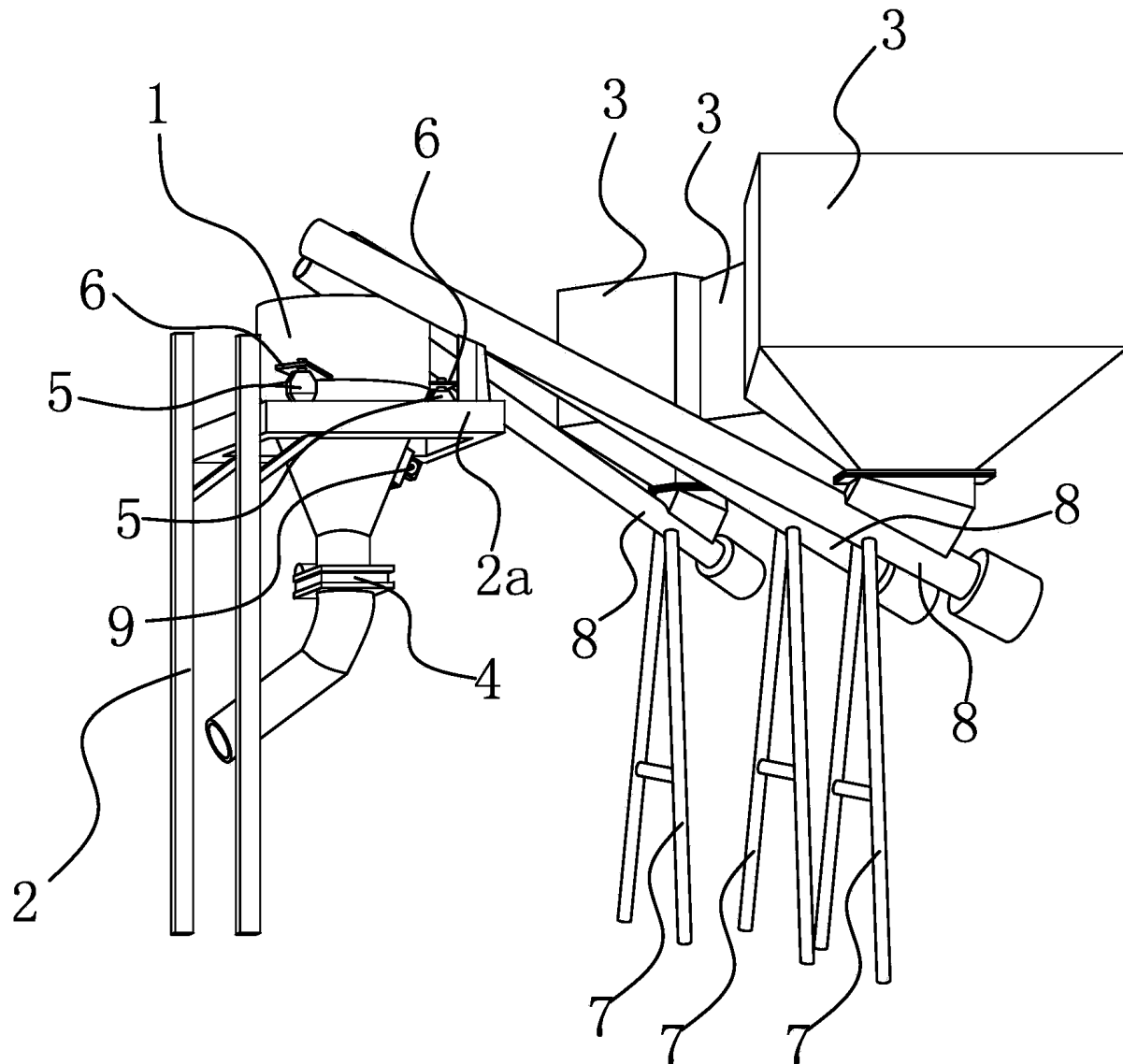
Latest standardized assignees - inventors removedZHEJIANG FANGYUAN **BUILDING** MATERIALS TECHNOLOGY

Family 39/100 - FAMPAT - ©Questel

Title

(CN104118059)

Mixed loading device of color brick pigment

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

CN104118059

A 2014-10-29 CN104118059

**Abstract**

(CN104118059)

The invention provides a mixed loading device of color brick pigment, belongs to the technical field of production of **building** materials, and solves the problems of manpower waste and low automation degree because of manually adding the color brick pigment in the prior art. The mixed loading device of the color brick pigment comprises a mounting rack, a weighing material box, and at least one hopper for storing the color brick pigment, wherein a discharge port is formed in the bottom of the weighing material box; a discharge valve for controlling the opening or closing of the discharge port is additionally arranged at the bottom of the weighing material box; the mounting rack has a frame-shaped mounting frame; the weighing material box is hung in the mounting frame; a weighing sensor for weighing the color brick pigment in the weighing material box is arranged between the weighing material box and the mounting frame; and the hopper is additionally connected with a conveying mechanism for conveying the color brick pigment in the hopper into the weighing material box. The mixed loading device of the color brick pigment can realize the quantitative addition of the color brick pigment into a mixing drum,

and has a higher automation degree.

Inventors

YANG XIAOHUA

YANG YI

YANG FEI

XU HONGYI

SHAO GUANGANG

Latest standardized assignees - inventors removed

ZHEJIANG FANGYUAN BUILDING MATERIALS TECHNOLOGY

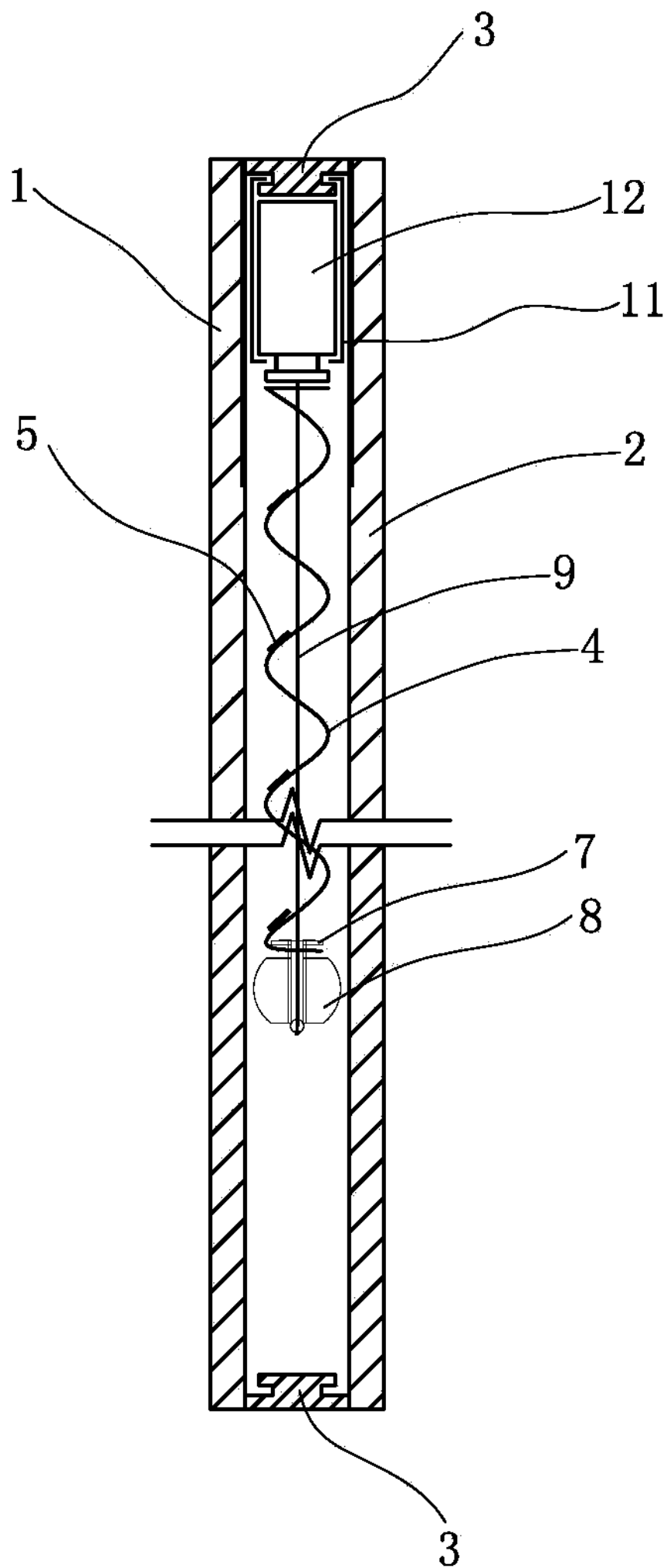
Family 40/100 - FAMPAT - ©Questel

Title

(CN104329007)

Ultrathin movable center soft cloth curtain sun-shading system

Images



Publication numbers with kind code & date

CN104329007 B 2016-03-09 CN104329007B
 CN104329007 A 2015-02-04 CN104329007

**Abstract**

(CN104329007)

The invention discloses an ultrathin movable center soft cloth curtain sun-shading system. When the thickness of an existing center sun-shading system is reduced, heat insulation performance can be worse and the problem can influence popularization and use of the center sun-shading system in buildings in Southern hot areas. The ultrathin movable center soft cloth curtain sun-shading system is characterized in that a plurality of horizontal hard ribs for enabling a soft cloth curtain to be regularly folded and not to be blocked or clamped when the soft cloth curtain is lifted up are arranged on the inner surface of the soft cloth curtain; a plurality of horizontal lifting rotating wheel devices for controlling lifting ropes in a vertical state to be changed into a horizontal state are arranged in a top box; end angle rotating wheel devices for controlling the horizontal state of the lifting ropes to be changed into the vertical state are arranged on the corners of two pieces of glass; a magnetic linkage device for controlling the soft cloth curtain and strip metal rods to be lifted and descended up and down is arranged in a lateral box. According to the invention, a spacing between two layers of hollow glass of the center sun-shading system is decreased; the ultrathin movable center soft cloth curtain sun-shading system is suitable for being used as a center sun-shading system of **building** external windows with various opening modes such as a flat opening mode, a push-pull mode, a top suspended mode and a bottom suspended mode, is widely applied and cannot increase the thickness and cost of a sash.

Inventors

CENG XIANCHUN

MA XUXIN

CHEN WENJIE

CENG QINGLU

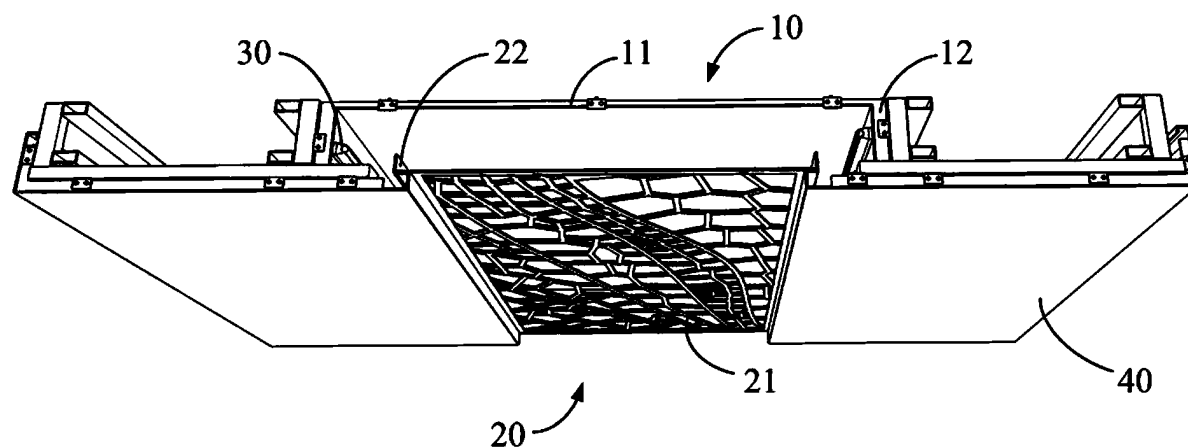
Latest standardized assignees - inventors removedZHEJIANG ACADEMY OF **BUILDING** RESEARCH & DESIGN

Family 41/100 - FAMPAT - ©Questel

Title

(CN203867041U)

Hollowed-out light-transmitting facing structure

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

CN203867041 U 2014-10-08 CN203867041U

**Abstract**

(CN203867041)

The utility model provides a hollowed-out light-transmitting facing structure, and relates to the technical field of indoor and outdoor decoration. The hollowed-out light-transmitting facing structure aims to solve the problems that according to an

existing light-transmitting film suspended ceiling, durability and heat dissipation performance are poor, the surface is prone to electrostatic pollution, a plurality of nonuniform bright and dark shadows will occur after the pollution is caused, and an indoor decoration effect is affected. The facing structure is in a two-level overlapping shape and is fixed to a frame body, and a basic layer plate is installed on a plane layer; a hollowed-out metal light-transmitting component is connected to the interior of an opening of an overlapping layer below the basic layer plate, at least one side elevation between the two layers is provided with a light generation unit. The facing structure is capable of preventing the electrostatic pollution and not prone to dust accumulation, the light generation unit enables heat to be dissipated naturally, and service life is prolonged. The component is made of A-level antifiaming fireproof materials, so that durability and heat dissipation performance are good. Disassembly and assembly are convenient, so that change of the shape of the suspended ceiling is facilitated, and cleaning, maintaining and the like in the later period are facilitated. The hollowed-out light-transmitting facing structure is particularly suitable for indoor decoration of public places such as shopping malls and hotels.

Inventors

WANG HUIPING

LIU CHUN

JIN JING

LIU YONG

JIANG YINI

ZHOU YIFANG

ZHANG YONG

ZHANG YU

MA YUZHENG

Latest standardized assignees - inventors removed

SHANGHAI BUILDING DECORATION ENGINEERING

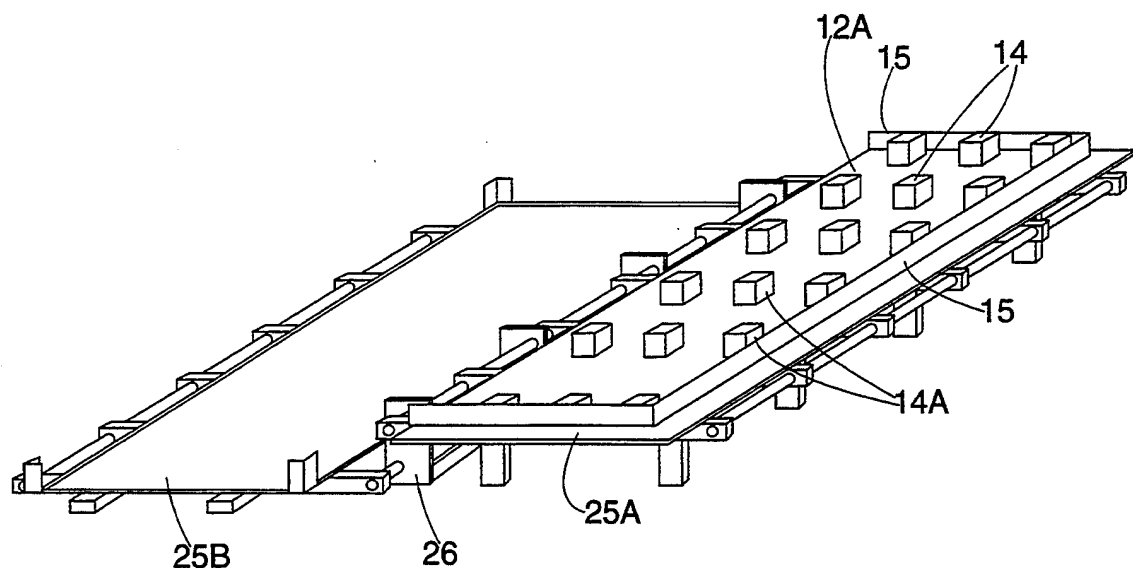
Family 42/100 - FAMPAT - ©Questel

Title

(US5369930)

Method of manufacturing a hollow core, concrete building panel

Images



Publication numbers with kind code & date

US5369930

A 1994-12-06 US5369930



Abstract

(US5369930)

A manufacturing process enables the connection of two separately finished skins (12A & 12B) with spacers (14 & 16). The

panels are manufactured by casting a first skin (12A), and then attaching the spacers (14 or 16) to the internal side of the first skin, and then casting a second skin (12B) and attaching the spacers to the internal side of the second skin. The lightweight panel (10) also contains internal formwork (15) for structural columns (33) and beam (34) which are cast in situ after the panel has been placed.

Inventors

KREIZINGER KENNETH R

Latest standardized assignees - inventors removed

KREICO **BUILDING** SYSTEMS

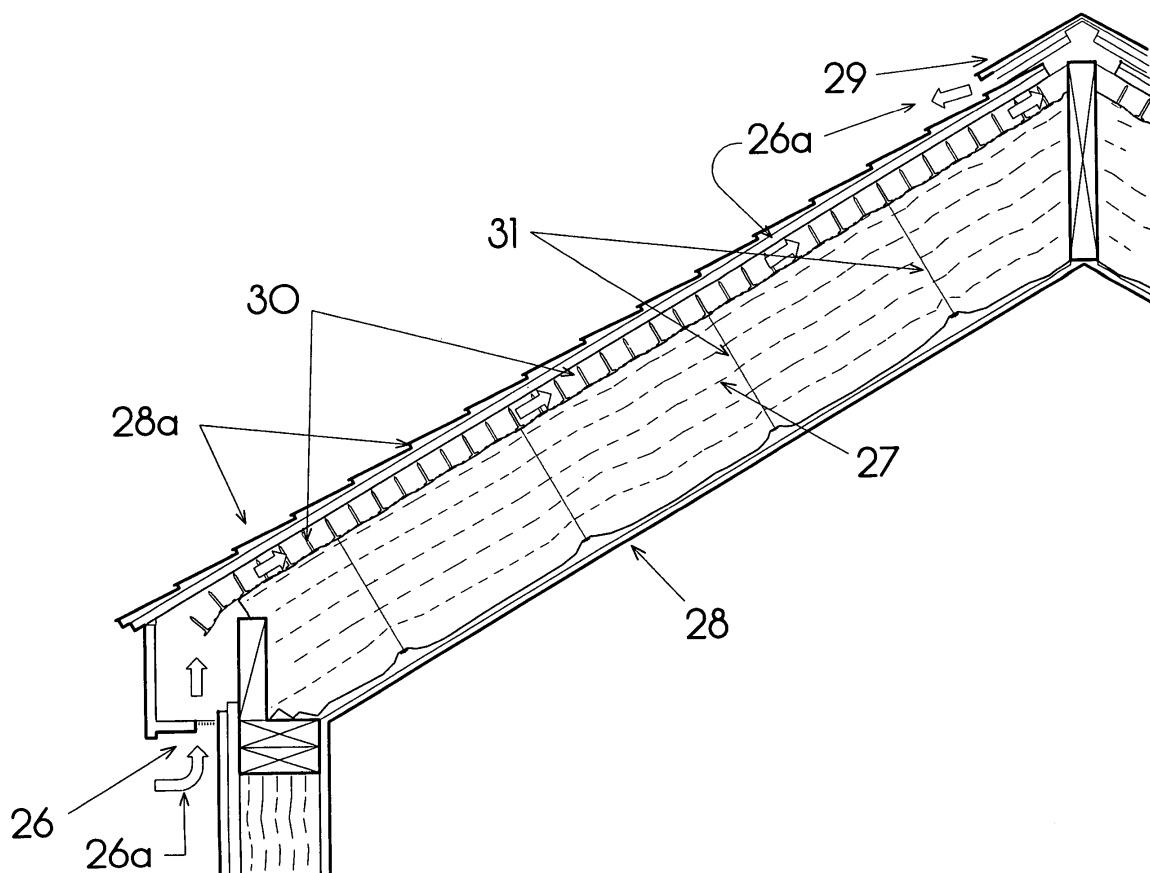
Family 43/100 - FAMPAT - ©Questel

Title

(WO200721298)

Device and method to provide air circulation space proximate to insulation material

Images



Publication numbers with kind code & date

US7458189	B2	2008-12-02	US7458189
WO2007/021298	A3	2007-11-08	WO200721298
WO2007/021298	A2	2007-02-22	WO200721298
US20060123724	A1	2006-06-15	US20060123724



Abstract

(WO2007/021298)

A spacer device is provided including (1) a body having a plurality of openings defining an **openwork** to allow the passage of air therethrough when placed in contact with insulation material, and (2) a plurality of spacer struts fixedly attached to the body. The struts are configured to maintain a predetermined distance between a first side of the insulation material and a **building** surface. The body and struts act together to define and maintain a space between the first side of the insulation material and the **building** surface, for example, for ventilation. The **building** surface can be the bottom face of a roof, an attic floor, **wall** sheathing or a soundproofed demising **wall**, for example. The spacer device can be capable of being transported

and stored together with, or as a separate item from, the insulation material, and can also be stored in nested layers.

Inventors

POLLACK ROBERT W

Latest standardized assignees - inventors removed

HETTRICH HANSL

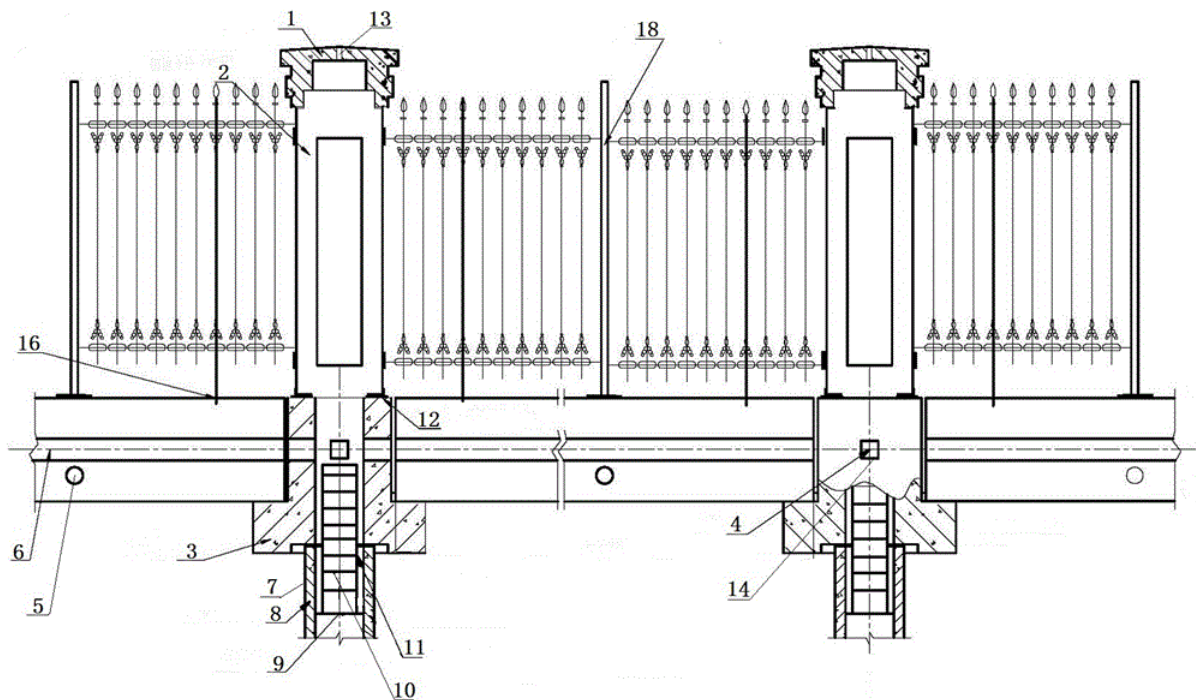
Family 44/100 - FAMPAT - ©Questel

Title

(CN205777892U)

Prefabricated assembled enclosure of industrialization

Images



Publication numbers with kind code & date

CN205777892

U 2016-12-07 CN205777892U



Abstract

(CN205777892)

The utility model relates to a prefabricated assembled enclosure of industrialization, including prefabricated bear down on one, prefabricated anti -wind post, prefabricated cushion cap, prefabricated grade beam and prefabricated post, prefabricated bear down on one, prefabricated anti -wind post, prefabricated cushion cap, prefabricated grade beam be hollow structure, prefabricated the bearing down on one of upper end installation of prefabricated anti -wind post, prefabricated cushion cap is connected to the lower extreme of prefabricated anti -wind post, and prefabricated post is connected to the lower extreme of prefabricated cushion cap, and prefabricated cushion cap suit is in on the prefabricated post, prefabricated grade beam is connected to the both sides of prefabricated cushion cap, prefabricated post is inside by prefabricated tubulose strength gonosome, and sets up round steel board layer board, the steel reinforcement cage in prefabricated tubulose strength gonosome and end the pulp board and constitute, by concrete filling in the prefabricated tubulose strength gonosome, buries to the soil supporting course under the prefabricated post. The utility model discloses can on -the -spotly assemble, install easy operation, the efficiency is fast, construction cycle is short, it is convenient to dismantle, repeatedly usable, compare with traditional enclosure the utility model discloses the outward appearance reaches clear water concrete quality standard, has avoided quality common fault phenomenons such as crackle, be full of cracks, ensures appearance quality.

Inventors

YANG DI

Latest standardized assignees - inventors removed

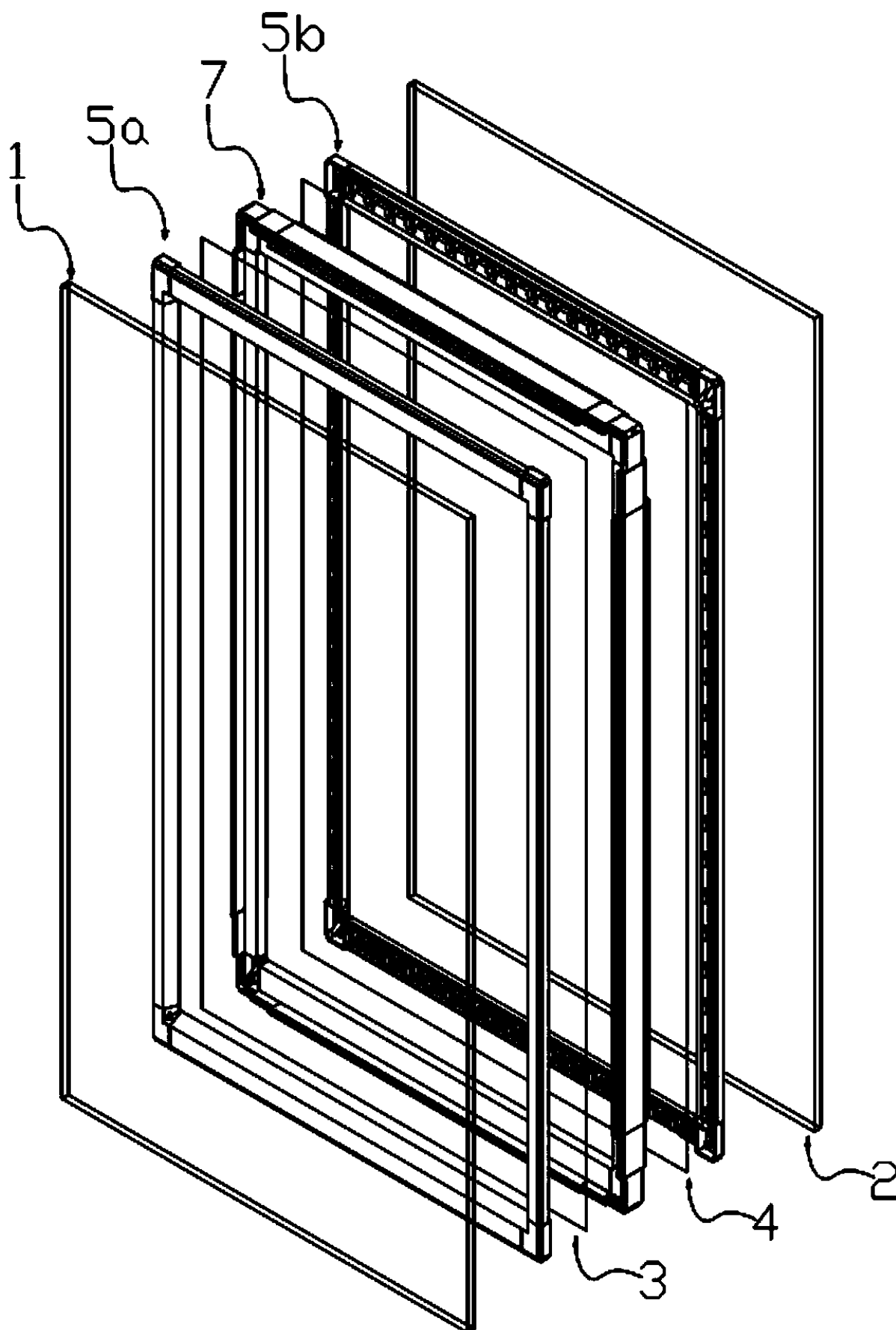
JIANHUA BUILDING MATERIALS

Family 45/100 - FAMPAT - ©Questel

Title

(CN204457303U)

Intelligent light-adjusting three-layer insulating glass

Images

Publication numbers with kind code & date[CN204457303](#)

U 2015-07-08 CN204457303U

**Abstract**

(CN204457303)

Disclosed is intelligent light-adjusting three-layer insulating glass. The intelligent light-adjusting three-layer insulating glass comprises outer sheet glass, an outer side stretch film frame, a thermochromism film, a composite dried parting stop frame, an ultraviolet blocking film, an inner side stretch film frame and inner sheet glass from the outer side to the inner side, wherein the outer side stretch film frame and the inner side stretch film frame have same structures and are arranged symmetrically opposite to the composite dried parting stop frame, and called stretch film frames. The thermochromism film is fixed in the inner side of the outer sheet glass through the outer side stretch film frame composed of a square box angle connection device so as to form a light-adjusting inner cavity used to obtain solar energy, the ultraviolet blocking film is fixed in the inner side of the outer sheet glass through the inner side stretch film frame having same structure with the outer side stretch film frame so as to form a heat insulation inner cavity, and the composite dried parting stop frame composed of an inflatable box angle composition device is clamped between the outer side stretch film frame and the inner side stretch film frame, forms a heat preservation inner cavity with the thermochromism film and the ultraviolet blocking film, and the light-adjusting inner cavity, the heat insulation inner cavity and the heat preservation inner cavity are all filled with inert gases. The intelligent light-adjusting three-layer insulating glass enables heat insulation performance to be excellent, and simultaneously adjusts and controls sunlight intelligently.

Inventors

DONG XINRAN

SHI DEAN

GAO FENG

Latest standardized assignees - inventors removedWEI THE CURTAIN **WALL**

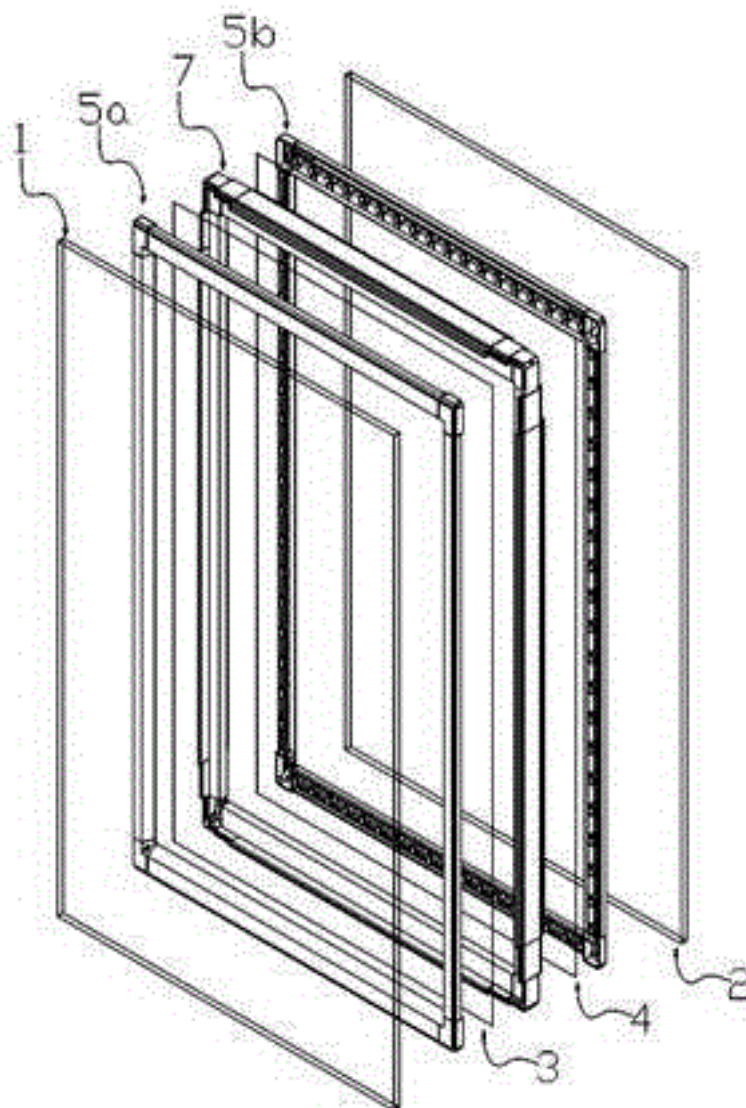
Family 46/100 - FAMPAT - ©Questel

Title

(CN104612553)

Intelligent dimming three-cavity glass

Images



Publication numbers with kind code & date

CN104612553	B	2016-05-04	CN104612553B
CN104612553	A	2015-05-13	CN104612553



Abstract

(CN104612553)

The invention provides intelligent dimming three-cavity glass. The glass structurally comprises outer-piece glass, an outer-piece film tensioning frame, a thermochromic film, a composite drying division bar frame, an ultraviolet stop film, an inner-piece film tensioning frame and inner-piece glass from outside to inside. The outer-piece film tensioning frame and the inner-piece film tensioning frame are the same in structure, symmetrically arranged relative to the composite drying division bar frame and generally called as the film tensioning frames. The thermochromic film is fixed to the inner side of the outer-piece glass through the film tensioning frame composed of square box angle connectors, so that an inner dimming cavity for acquiring solar energy is formed. The ultraviolet stop film is fixed to the inner side of the inner-piece glass through the film tensioning frame of the same structure, so that an inner heat insulation cavity is formed. The composite drying division bar frame composed of inflation box angle assembling devices is sandwiched between the two film tensioning frames, an inner heat preservation cavity is formed by the composite drying division bar frame and two films, and the three inner cavities are all inflated with inert gases. The heat insulation performance is better and meanwhile sunlight is intelligently adjusted and controlled.

Inventors

DONG XINRAN

SHI DEAN

GAO FENG

Latest standardized assignees - inventors removed

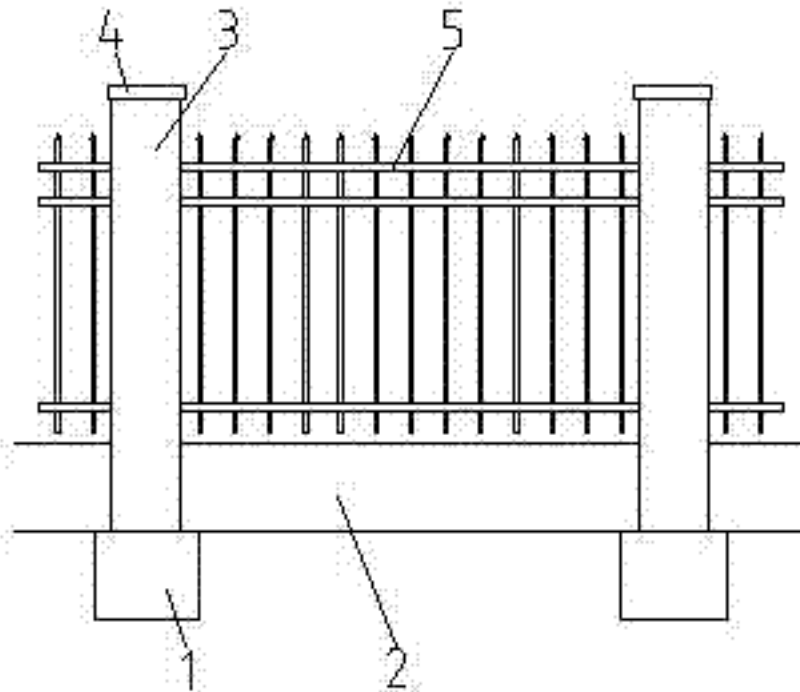
WEI THE CURTAIN WALL

Family 47/100 - FAMPAT - ©Questel

Title

(CN208294238U)

Prefabricated assembled combination enclosure with railing

Images**Publication numbers with kind code & date**[CN208294238](#) U 2018-12-28 CN208294238U**Abstract**

(CN208294238)

The utility model relates to a prefabricated assembled combination enclosure with railing, including the enclosure monomer that thoughtlessly congeals the material that the multiunit set up side by side, the enclosure monomer includes base, grade beam and stand, and the base is the cube structure, and the middle part of base is provided with the recess, and the lower extreme of stand is provided with convex podetium, convex podetium's upper end is provided with the spill mouth of inversion, the both ends of grade beam be provided with with protruding of spill mouth assorted, protruding is used in order to pass through two stands grade beam fixed connection together with the cooperation of spill mouth. The utility model discloses it is aesthetic in appearance, simple to operate, construction cycle is short, and occupation space is little, and the installation is firm, and resistance to compression atress nature is strong, and low in cost does not receive the influence of weather, can all construct any time, and it is with high costs that the present traditional enclosure technique of solution exists, and the construction is dismantled and is moved used repeatedly inconveniently thantroublesome and cycle length, and easy be full of cracks and the permeability subalternation technical problem of producing to prior art, has fine market prospect and development space.

Inventors

CHEN LIFEI

WANG HUI

YAO XINGYU

GUO YUSHUAN

YANG LIKAI

YIN HESHENG

Latest standardized assignees - inventors removed

HEBI DONGJIANG CONSTRUCTION INDUSTRY TECHNOLOGY

HENAN DONGFANG CONSTRUCTION DEVELOPMENT

HENAN ORIENTAL ARCH INDUSTRY TECHNOLOGY

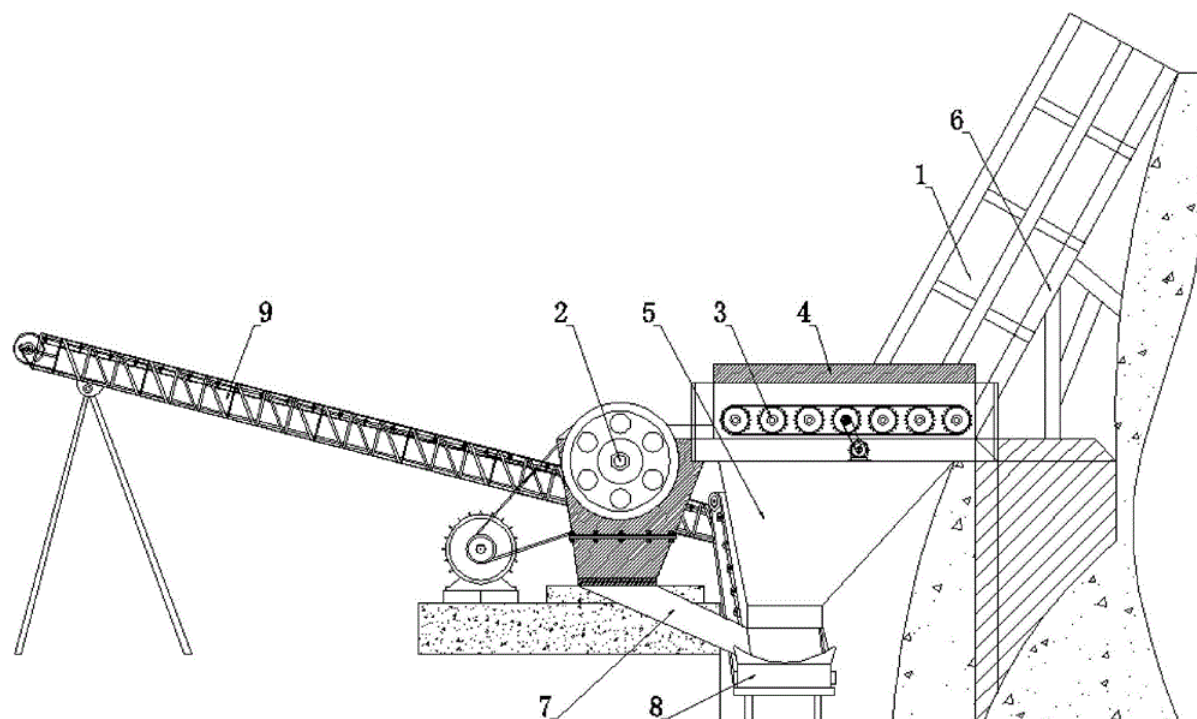
RUZHOU DONGJIANG **BUILDING** INDUSTRIAL TECHNOLOGY

Family 48/100 - FAMPAT - ©Questel

Title

(CN104384006)

Shale uniformly-crushing device for energy-saving type sintered shale hollow block

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

CN104384006	B	2017-03-29	CN104384006B
CN104384006	A	2015-03-04	CN104384006

**Abstract**

(CN104384006)

The invention discloses a shale uniformly-crushing device for energy-saving type sintered shale hollow blocks. The device comprises a crusher, wherein a discharging slide sieve is arranged at the lateral upper part of the crusher; the discharging slide sieve is groove-shaped, and the upper part of the discharging slide sieve is larger, and the lower part of the discharging slide sieve is smaller; a feeding machine is arranged between the discharging slide sieve and the crusher; the inlet end of the feeding machine corresponds to the outlet of the discharging slide sieve; the outlet end of the feeding machine corresponds to the feeding opening of the crusher; operation platforms are arranged above the feeding machine; the groove opening of the discharging slide sieve faces the operation platforms; a discharging machine is arranged below the feeding machine; the transferring direction of the discharging machine is perpendicular to that of the feeding machine. Through the adoption of the scheme, the device has the remarkable effects as follows: in the process of crushing mine shale, the crushing device can be smoothened on site, at the same time, raw materials can be subjected to second-stage separation according to difference in thickness, most small particulate matters in the raw materials are screened away, and big ores enters the crusher to be crushed, so that the transferring of unnecessary raw materials is avoided, and the problem of blockage of a raw material channel is further solved.

Inventors

LIU HUA

LIU MING

Latest standardized assignees - inventors removed

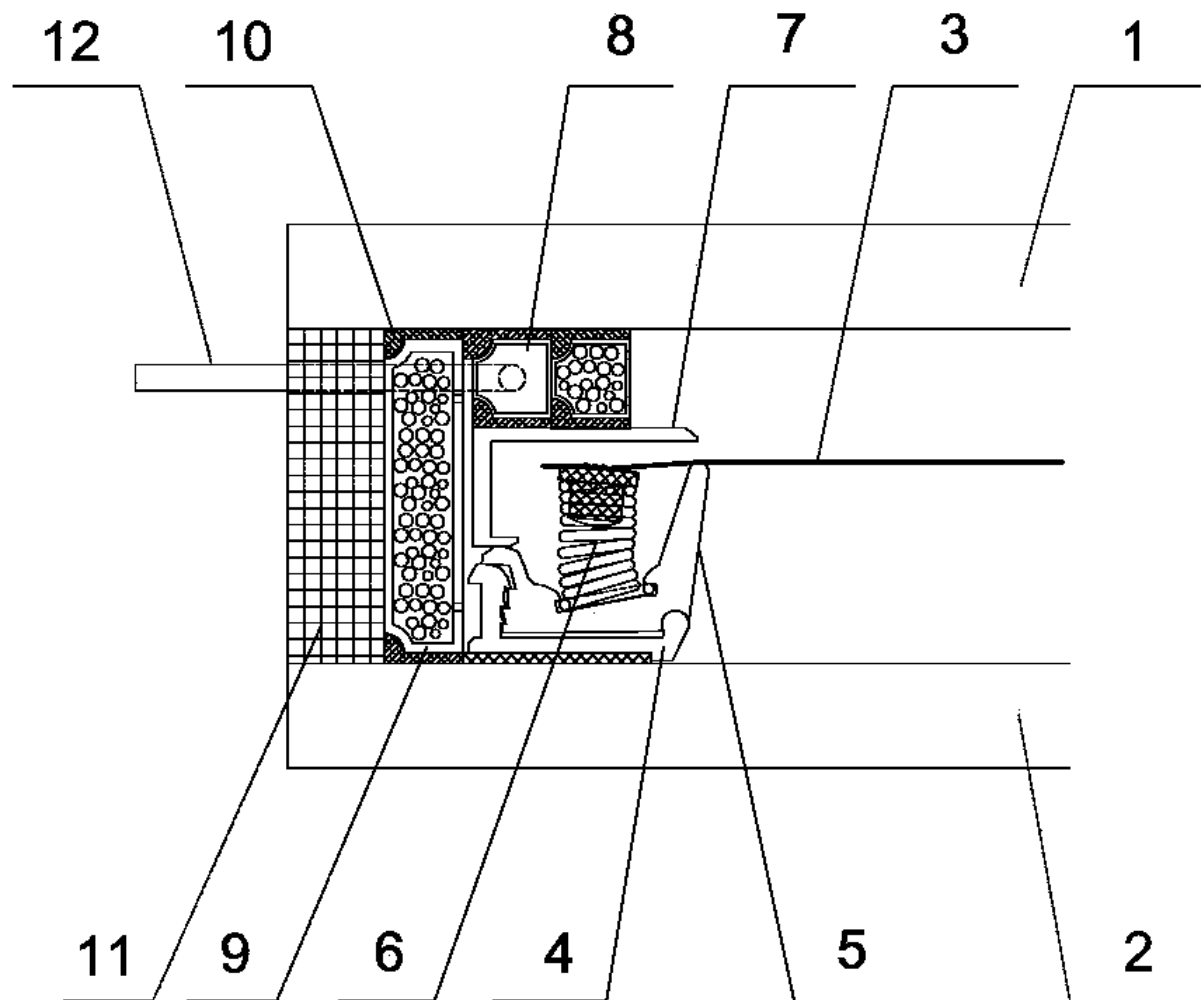
CHONGQING FUXI **BUILDING** MATERIALS

Family 49/100 - FAMPAT - ©Questel

Title

(CN103498623B)

Breathable internal suspension membrane type dual-insulated glass

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

CN103498623	B	2015-07-22	CN103498623B
CN103498623	A	2014-01-08	CN103498623

**Abstract**

(CN103498623)

The invention discloses breathable internal suspension membrane type dual-insulated glass. According to the breathable internal suspension membrane type dual-insulated glass, an optical membrane serves as a middle layer, the optical membrane is installed in an inner cavity of the insulated glass to serve as the middle layer through a suspension membrane frame on the premise that the original encapsulating structure of the insulated glass is not changed, and then the dual-insulated glass is obtained; hollow edge space formed between the optical membrane and an outer glass body is fully utilized, a dry breathing tube arranged in a mode of a dual-sleeved-square loop is installed to balance inner cavity pressure change caused by external environment change, so that stress borne by the outer glass body is relieved, and then stability of the whole insulated glass is improved.

Inventors

DONG XINRAN

SHI DEAN

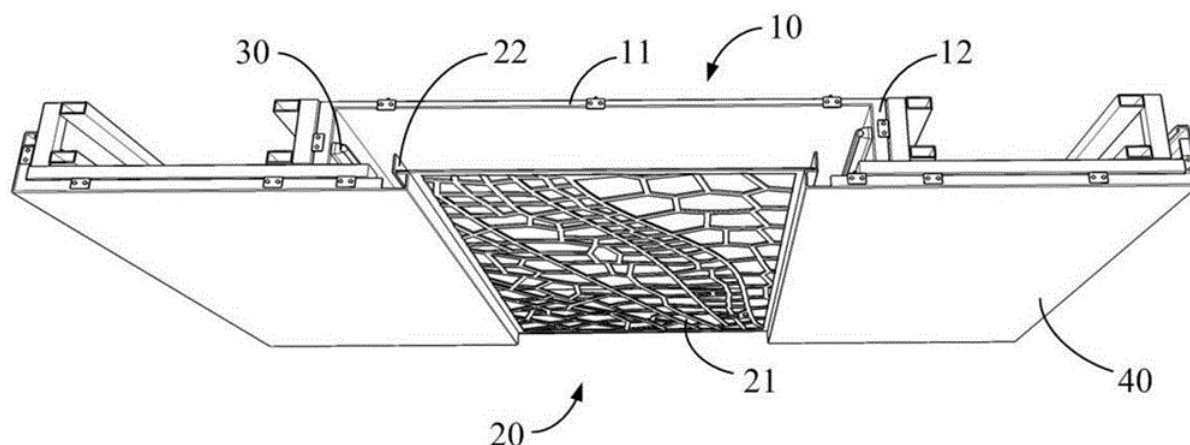
Latest standardized assignees - inventors removedWEI THE CURTAIN **WALL**

Family 50/100 - FAMPAT - ©Questel

Title

(CN103993695)

Hollowed-out translucent decorative structure and mounting method thereof

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

CN103993695	B	2016-05-04	CN103993695B
CN103993695	A	2014-08-20	CN103993695

**Abstract**

(CN103993695)

Hollowed-out translucent decorative structure of the present invention and mounting method thereof, relate to indoor and outdoor and decorate field. Poor for existing light-transmissive film furred ceiling durability and thermal diffusivity, surface is subject to static and pollutes, and stainedly occurs polyolith shade and affects the problem of decorative effect afterwards. Decorative structure is repeatedly level moulding of secondary, and basal plate is located on plane layer; Metal hollowed-out translucent member is connected to repeatedly in level layer hole, on the side elevation between two-layer, establishes light generation unit. Mounting method: one, basal plate is installed on plane layer, the decoration panel of level layer is installed repeatedly and is formed a hole in basal plate below; Two, on the side elevation between two-layer, light generation unit is installed; Three, metal hollowed-out translucent member is installed in hole. This decorative structure can prevent that static from polluting, and is difficult for laying dust, and light generation unit can natural heat dissipation, is beneficial to and extends its application life. Member adopts A level fire-retardant fireproof material, and durability and thermal diffusivity are good, and easy accessibility is beneficial to the work such as conversion suspended ceiling modeling and later stage clean and maintenance.

Inventors

WANG HUIPING

LIU CHUN

JIN JING

LIU YONG

JIANG YINI

ZHOU YIFANG

ZHANG YONG

ZHANG YU

MA YUZHE

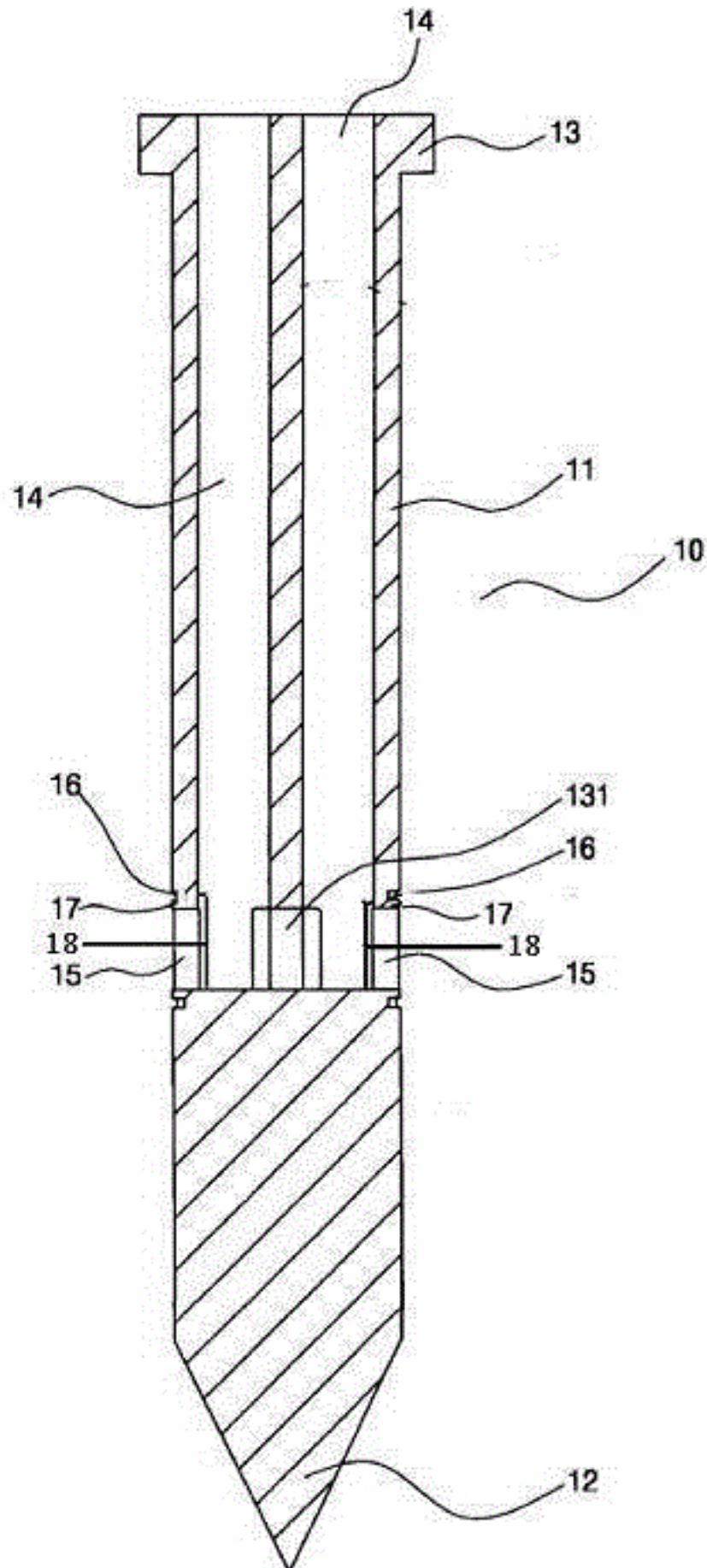
Latest standardized assignees - inventors removedSHANGHAI **BUILDING** DECORATION ENGINEERING

Family 51/100 - FAMPAT - ©Questel

Title

Asphalt road surface drainage system and construction method thereof

Images



CN104499401

B 2016-07-06 CN104499401B



[CN104499401](#)

A 2015-04-08 CN104499401

**Abstract**

(CN104499401)

The invention relates to an asphalt road surface drainage system and a construction method thereof. The asphalt road surface comprises a plurality of drainage piles which are arranged on an asphalt road surface, wherein each drainage pile is a pin-shaped insert pile, the main body of the drainage pile is a pile rod, a sharp conical part is formed on the front end of the pile rod, a stopping part is arranged on the back end of the pile rod, at least one through hole into the inner part of the pile rod is arranged on the top of the stopping part and at least one first through hole communicated with the above through hole is formed on the pile rod near to the sharp conical part; the first through hole is formed in a depressed groove part, a stop convex ring is formed around the opening of the through hole in the depressed groove part, the first through hole is sealed by a thin film layer, and the thin film layer is formed by a material which can be dissolved in water.

Inventors

XU SHEN

TU ZHIHUA

HU BIAO

HUANG ZANXU

DING JIE

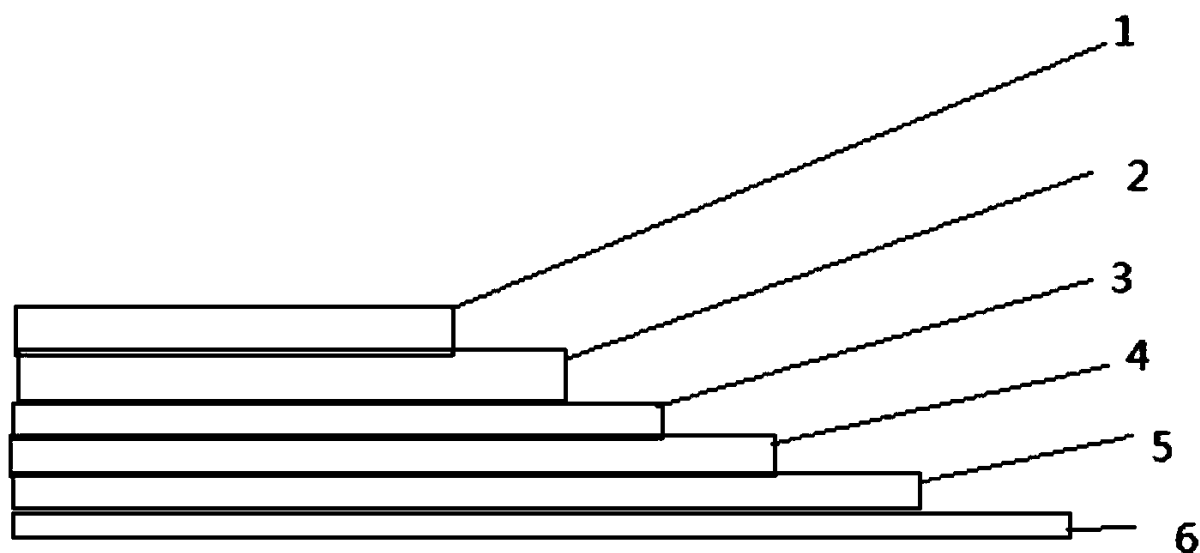
Latest standardized assignees - inventors removedJIANGXI SHUANGDE **BUILDING** ENGINEERING

Family 52/100 - FAMPAT - ©Questel

Title

(CN204531195U)

Special modified asphalt metal child rubber of various steel roofing is from applying ointment or plaster coiled material

Images**Publication numbers with kind code & date**[CN204531195](#)

U 2015-08-05 CN204531195U

**Abstract**

(CN204531195)

The utility model provides a special modified asphalt metal child rubber of various steel roofing is from applying ointment or plaster coiled material, waterproof layer, rubber self-adhesion tie coat and bond breaker layer under from top to bottom establishing the various sand anti-aging layer of basalt as an organic whole, the last waterproof layer of modified asphalt, metal copper foil enhancement layer, modified asphalt. The utility model discloses the excellent ductility ability of make full use of metal copper foil for the comeandgo of coiled material is synchronous with the various steel of metal, the great displacement of having avoided the material kneck to produce because of the comeandgo of coiled material and the

various steel of metal, and then avoided the phenomenon that the kneck very easily leaked, rubber self-adhesion tie coat comprises the modified butyl of the tackifying resin, butadiene styrene rubber, has self-healing, antifatigue, high elasticity restoration ratio, can reach with the adhesion of base face automatically and completely glue, the various sand anti-aging layer of basalt can the separation ultraviolet ray to the injury of modified asphalt waterproof layer, the waterproof fixed number of years of extension coiled material, and the effect playing the decoration, beautify the environment of bright-coloured colorful outward appearance.

Inventors

LI LIWEN

ZHOU YUMEI

LI ZHONGWEN

PENG HEMIN

Latest standardized assignees - inventors removed

TIANJIN YUHONG **BUILDING** WATERPROOF MATERIAL

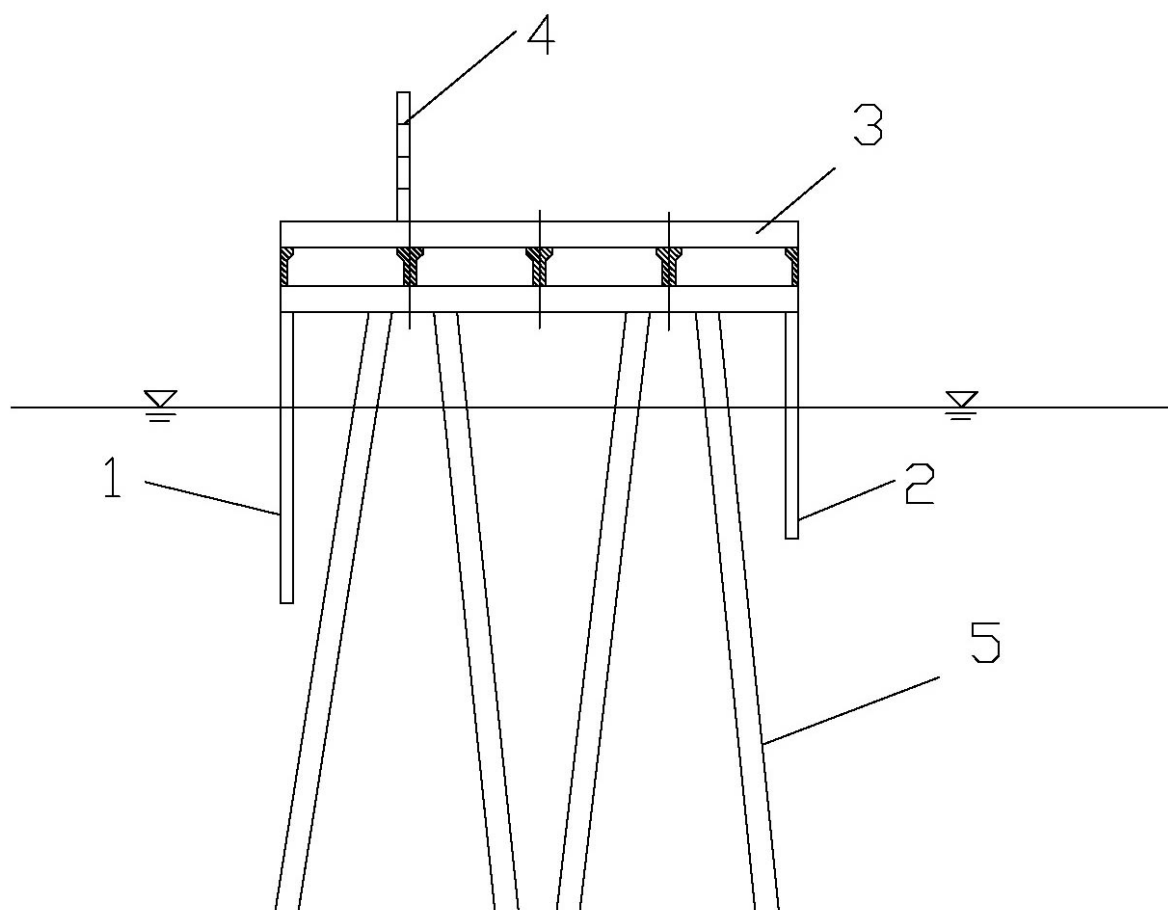
Family 53/100 - FAMPAT - ©Questel

Title

(CN102011374)

Openwork breakwater

Images



Publication numbers with kind code & date

CN102011374 A 2011-04-13 CN102011374



Abstract

(CN102011374)

The invention discloses an **openwork** breakwater which is characterized by comprising a pile foundations (5), wherein the pile foundations (5) are fixed under water; the upper end of each pile foundation is provided with an **openwork** breakwater horizontal plate (3); both the front and rear sides of the **openwork** breakwater horizontal plate (3) are provided with an

outside manger board (1) and an inside manger board (2) which extend into water; and the **openwork** breakwater horizontal plate (3) is also provided with a wave **wall**. The **openwork** breakwater is simple in structure and low in cost, is specially applicable to sea areas with deep water depth and hostile environments, and is more consistent with the actual wave-breaking situation, thus playing a preferable wave-breaking effect and ensuring the stabilities of the sea areas in a harbor.

Inventors

YAN SHICHANG

FAN JUN

YANG SIHAN

WANG YUNAN

WANG WEI

Latest standardized assignees - inventors removed

HOHAI UNIVERSITY

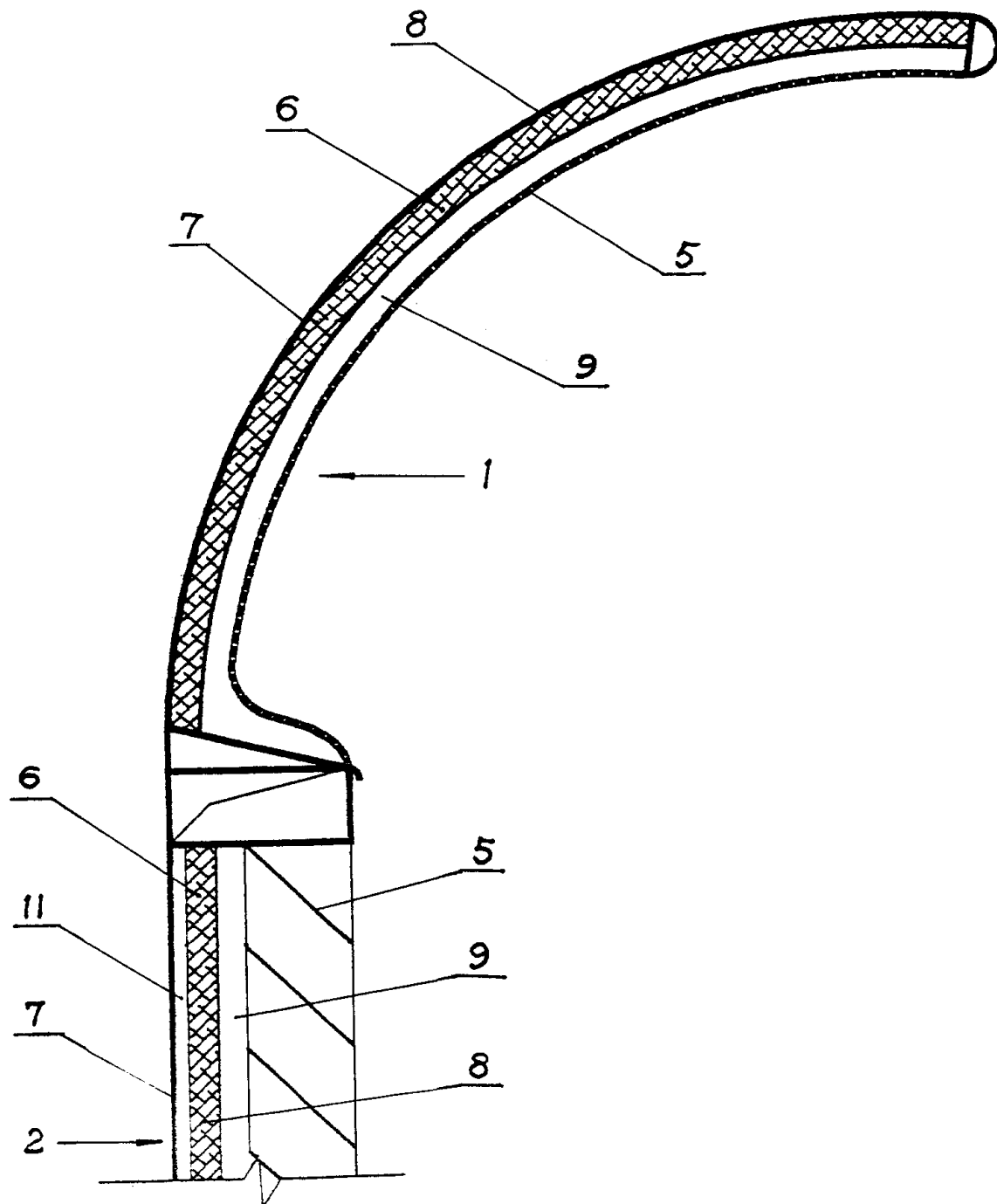
Family 54/100 - FAMPAT - ©Questel

Title

(CN2454408U)

Noise silencing barrier

Images



Publication numbers with kind code & date

[CN2454408](#)

Y 2001-10-17 CN2454408U



Abstract

(CN2454408)

The utility model discloses a noise silencing barrier which is composed of a surface permeable layer, a sound-absorbing layer and a bottom layer, wherein, the surface permeable layer is manufactured by cutting light plates; the permeable forms of the surface permeable layer can be a honeycomb type, a louvered type and a geometric punch form of other forms; the sound-absorbing layer is composed of sound-absorbing mineral wool; the sound-absorbing layer is fixed on a steel wire net parallel to the surface permeable layer, and is separated a definite distance from the surface permeable layer; the bottom layer is made of the light plates, and is arranged behind the sound-absorbing layer. The utility model has the advantages of strong noise absorbing ability, wide range of sound-absorbing frequency, simple processing technology and rich material source.

Inventors

LI PENG

CHEN WEIPING

HE TONGFENG

Latest standardized assignees - inventors removed

MEILI LANDSCAPE BUILDING PLANNING DESIGN OFFICE GUANGZHOU

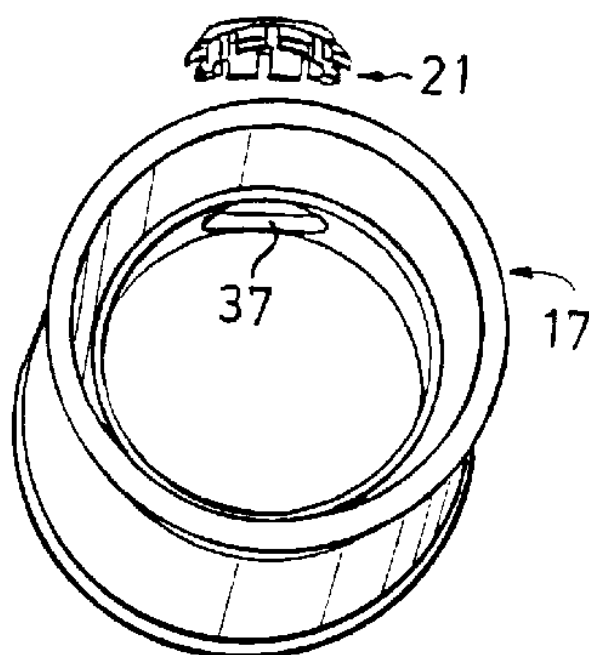
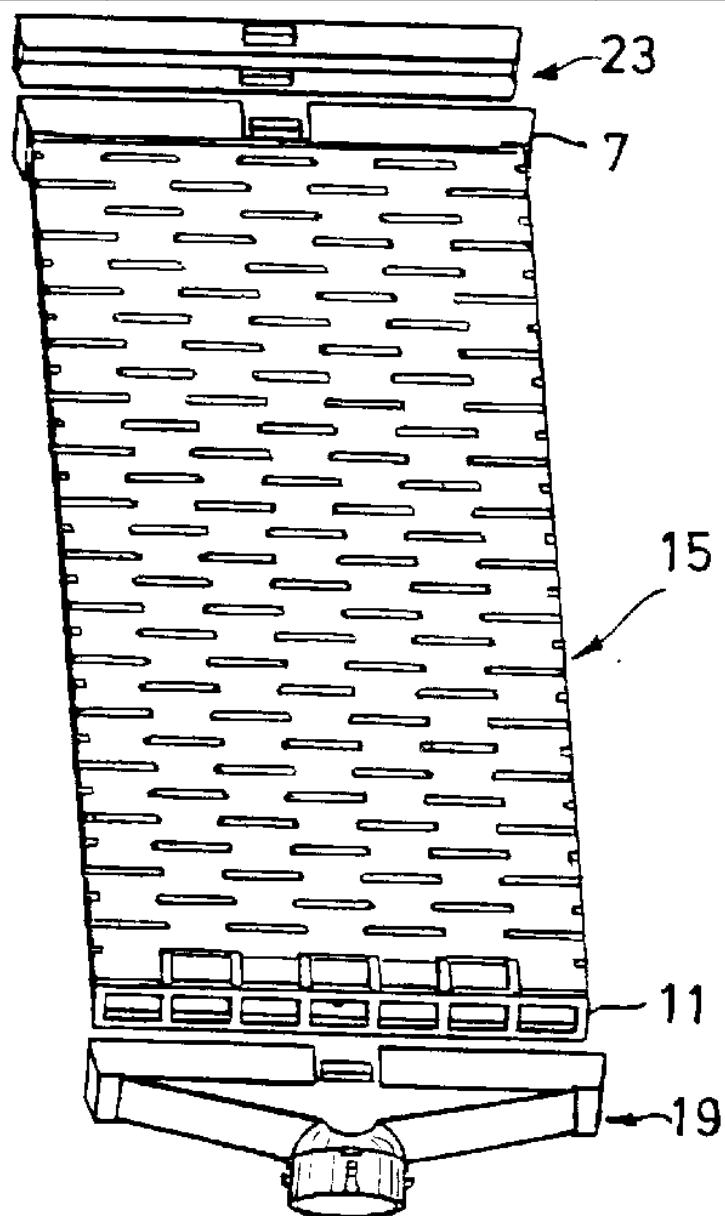
Family 55/100 - FAMPAT - ©Questel

Title

(EP-499442)

Underground drainage

Images

**FIG. 4.**

Publication numbers with kind code & date

DE69226297	T2	1999-02-25	DE69226297
ES2120987	T3	1998-11-16	ES2120987
DE69226297	D1	1998-08-27	DE69226297
EP0499442	B1	1998-07-22	EP-499442
GB2253125	B	1995-01-04	GB2253125
EP0499442	A3	1993-08-04	EP-499442
GB2253125	A	1992-09-02	GB2253125
EP0499442	A2	1992-08-19	EP-499442
GB9203058	D0	1992-03-25	GB9203058

**Abstract**

(EP0499442)

A drainage component comprises a flexible panel having a water permeable surface 9 and an interior 1, 3, 5 providing for flow of water from the permeable surface 9 to an outlet 11. In use, the outlet 11 communicates with a drainage pipe 45, for example. Means 21, 17 are also provided for connecting the drainage component to the pipe. The drainage component can also be used for stabilising and/or ventilating ground, as well as draining ground. <IMAGE>

Inventors

STANIFORTH GRAEME

Latest standardized assignees - inventors removedHEPWORTH **BUILDING** PRODUCTS

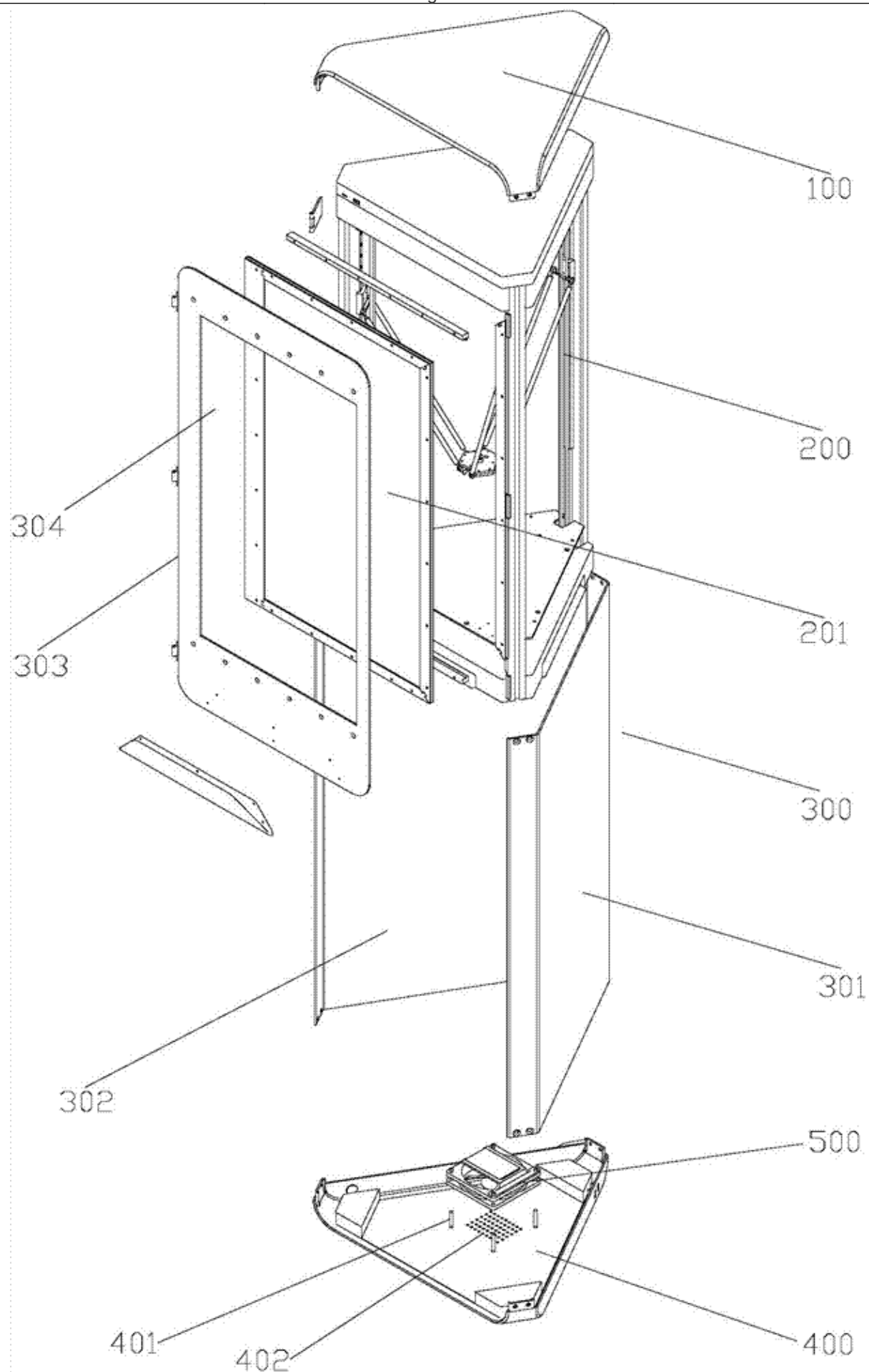
Family 56/100 - FAMPAT - ©Questel

Title

(CN206967965U)

3D printer with thermostatic control function

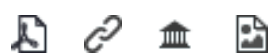
Images



Publication numbers with kind code & date

[CN206967965](#)

U 2018-02-06 CN206967965U



Abstract

(CN206967965)

The utility model relates to a 3D printer with thermostatic control function, including inclosed constant temperature storehouse, be provided with 3D printer and temperature control device in the constant temperature storehouse, the 3D printer sets up center in the constant temperature storehouse, temperature control device sets up the bottom in constant temperature storehouse. The beneficial effects of the utility model reside in that, a 3D printer with thermostatic control function that but, the convenient thermostatic control of equipment and airtight effectual is provided.

Inventors

MENG GAIJIAO

Latest standardized assignees - inventors removed

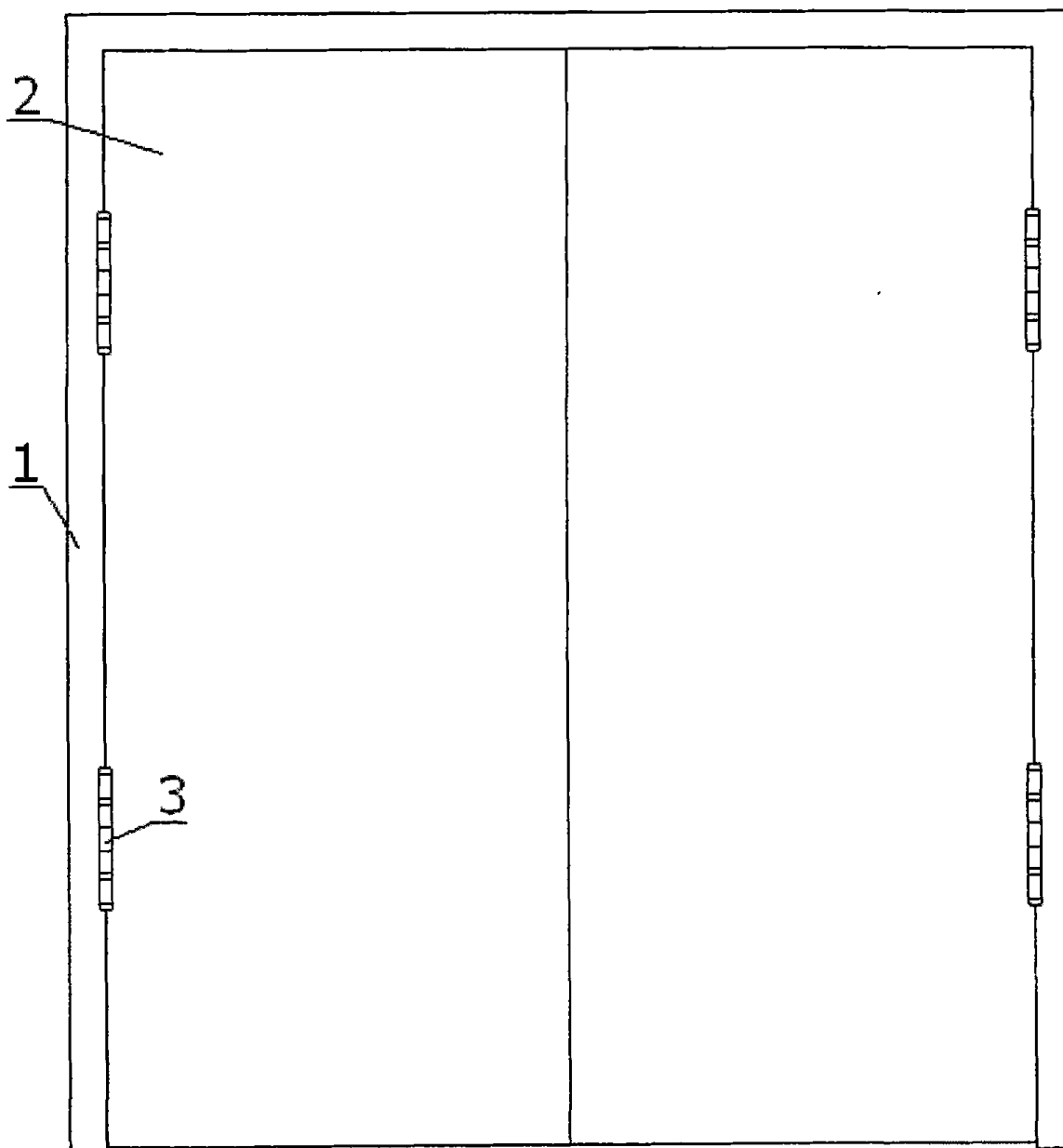
BEIJING QINGYE GONGHE BUILDING DESIGN CONSULTATION

Family 57/100 - FAMPAT - ©Questel

Title

(CN201253446U)

Yimen type indoor weight-lifting body-building frame

Images

Y 2009-06-10 CN201253446U

Abstract

(CN201253446)

The utility model discloses a side-door indoor weightlifting body-building frame which aims at solving the problem that the prior weightlifting body-building equipment can not be used in a family due to limited indoor space. The side-door indoor weightlifting body-building frame comprises a doorframe arranged on the wall surface indoors and two doors arranged on the doorframe through pivots, wherein a plurality of pairs of detachable lateral barbell brackets are assembled on outer upright edges of the two doors through rabbets, and detachable column legs are respectively arranged at outer bottom feet of the two doors; and detachable groove-shaped upper barbell brackets are assembled on the upper parts of the two doors through vertical rabbets. Only one door is additionally arranged on the wall face when the side-door indoor weightlifting body-building frame is mounted and used on the wall face in any indoor rooms, and the exceptional space is not occupied; after the door is opened, a squat rack and a supine press rack which are used for weightlifting and body-building are formed when the column legs and the barbell brackets are installed, and a decorative picture, a sculpture and an openwork carving ornament can also be arranged on the doors and the doorframe, thereby the side-door indoor weightlifting body-building frame is very suitable for popularizing and using in common families.

Inventors

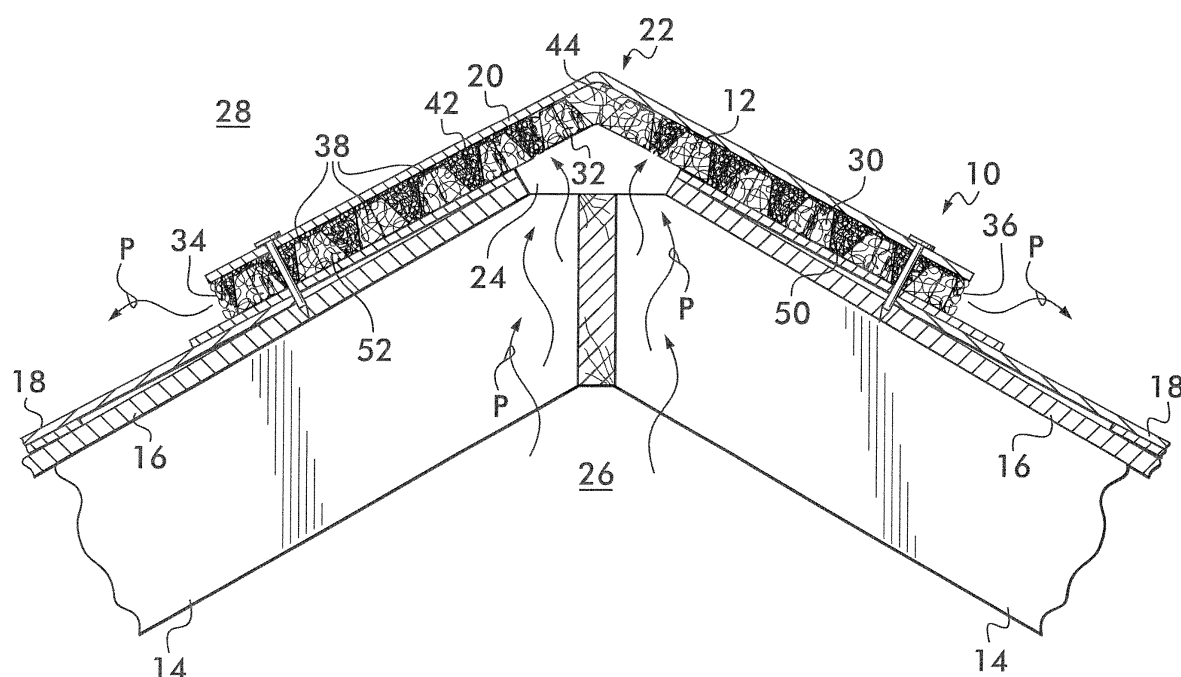
WANG LINGANG

Family 58/100 - FAMPAT - ©Questel

Title

(US9200453)

Ridge vent mat and roof ridge assembly

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

CA2729441	C	2017-12-05	CA2729441
US9200453	B2	2015-12-01	US9200453
CA2729441	A1	2011-08-04	CA2729441
US20110189940	A1	2011-08-04	US20110189940

**Abstract**

(US20110189940)

A roof ridge vent mat for installation overlying an open roof ridge to provide ventilation to a space beneath a roof is

provided. The ridge vent mat is a continuous elongate material of randomly convoluted polymeric filaments having an **openwork** upper face, an **openwork** lower face, a plurality of hollow recesses extending into the mat and opening into the lower face, and opposite longitudinally extending **openwork** side edges. The **openwork** upper face is formed of randomly convoluted filaments formed to provide a relatively flat surface of sufficient density to catch heads of fasteners. The plurality of hollow recesses is defined by a plurality of upstanding **openwork** walls of convoluted filaments that extend from the upper face to the lower face of the mat. The upstanding **openwork** walls are arranged in a latticework structure such that no unobstructed passageway extent through the mat through which wind-blown rain and snow can freely pass into the side edges of the mat and laterally pass through the mat. A ventilated roof ridge assembly including the vent is provided.

Inventors

KERWOOD-WINSLOW TED

CARUSO GEORGE

COULTON MICHAEL S

HASCHER LORI CURTISS

MATHIS II JAMES EMORY

DENTON JEFFREY SCOTT

Latest standardized assignees - inventors removed

COLBOND

BENJAMIN OBDYKE

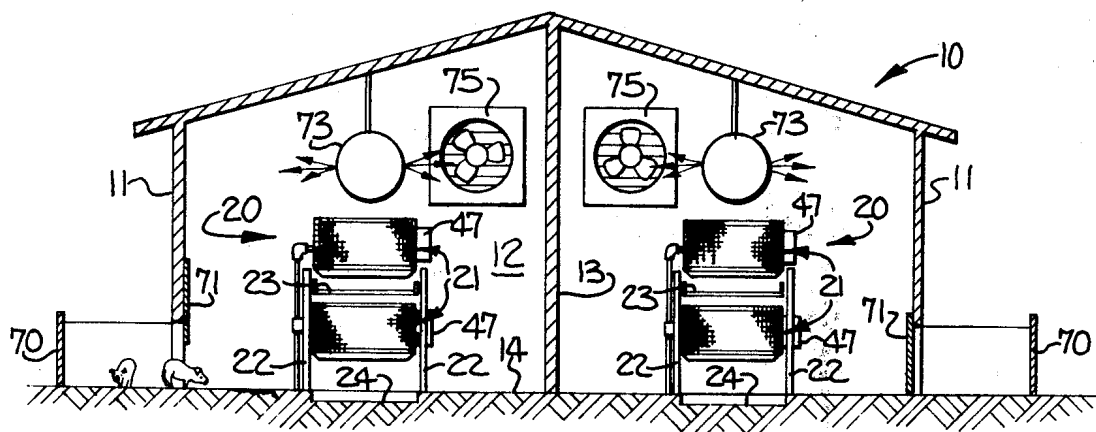
Family 59/100 - FAMPAT - ©Questel

Title

(US4173947)

Method and apparatus for rearing pigs in cages

Images



Publication numbers with kind code & date

US4173947

A 1979-11-13 US4173947



Abstract

(US4173947)

An efficient and highly productive method for rearing pigs wherein successive litters of pigs are placed in an enclosed **building** within a series of cages following weaning, the cages having floors of **openwork** construction to allow animal waste to pass therethrough and to keep the pigs in a dry condition. The animal waste passing through the floors of the cages is collected in an underlying trough where it is readily accessible for periodic inspection to locate any unhealthy pigs and thereby facilitate segregating them from the healthy pigs. Several times a day a sweeping flow of water is directed along the trough to flush away the animal waste from below the cage.

The cages are arranged in the **building** end-to-end in vertically aligned tiered relation to form respective upper and lower elongate series of cages, with each cage comprising a floor of **openwork** construction and an open-bottomed enclosure

also of **openwork** construction restingly positioned on and supported by the floor. A plurality of upright cage supports arranged in longitudinally spaced pairs on opposite sides of the cages supportively carry the respective floors of the cages, with respective upper and lower elongate troughs being positioned underlying the upper and lower elongate series of cages for receiving and collecting the animal waste passing through the floors of the cages.

Inventors

WHITESIDE JOHN V JR

Latest standardized assignees - inventors removed

WELLMAN JOHN G JOHNSONVILLE

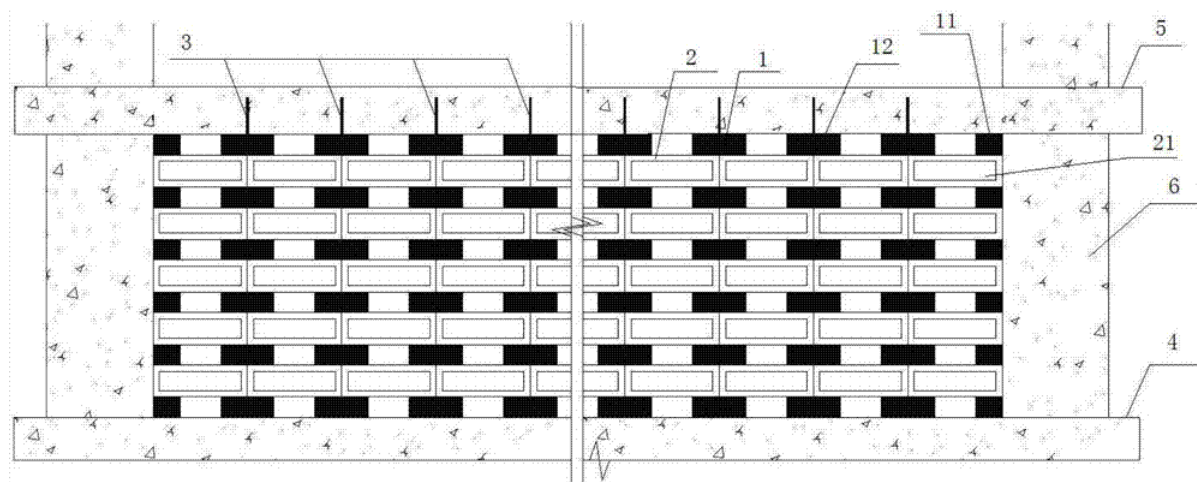
Family 60/100 - FAMPAT - ©Questel

Title

(CN107268834)

Structure-pillar free combined **openwork** brick **wall** without plastering and construction method thereof

Images



Publication numbers with kind code & date

CN107268834 A 2017-10-20 CN107268834



Abstract

(CN107268834)

The invention discloses a structure-pillar free combined **openwork** brick **wall** without plastering and a construction method thereof. The brick **wall** comprises a stone layer, a concrete hollow brick block layer and steel bars which are spliced between an upper and lower two-storey beam structures, and the stone layer and the concrete hollow brick block layer are alternately spliced in an upper-and-lower mode; the stone layer consists of first stones and second stones, the first stones are arranged on two sides of a **wall** body and fixed with house pillars, the second stones are arranged between the two first stones on two sides of the **wall** body, gaps exist between the first stones and the second stones and between two adjacent second stones, and are distributed by equal spacing; the concrete hollow brick block layer is composed of a number of concrete hollow brick blocks transversely connected, the concrete hollow brick blocks located on the outermost two sides are fixed with the house pillars, the top of each steel bar is fixed to an upper layer beam structure, the bottom of each steel bar is fixed to a lower layer beam structure, and the middle of each steel bar is serially connected with the stone layer and the concrete hollow brick block layer. The **wall** body has no structure pillars and is beautiful on the whole, the stability of the **wall** body can be ensured, and the construction process is simple.

Inventors

ZHOU YEQIANG

LI BINGYAO

YAN SHENG

WU PEICONG

XIE JIANGMEI

WEI WEIPING

GUAN QISHANG

Latest standardized assignees - inventors removed

GUANGXI CONSTRUCTION ENGINEERING NO 1 CONSTRUCTION ENGINEERING

Family 61/100 - FAMPAT - ©Questel

Title

(GB-537552)

Improvements in and relating to reinforced partitions, walls, roofs and like structures

Publication numbers with kind code & date[GB537552](#) A 1941-06-26 GB-537552**Abstract**

(GB537552)

537,552. Walls &c. SERVAIS, F. J. J. Feb. 13, 1940. No. 2725. Addition to 528,645, [Group I]. Drawings to Specification. [Class 20 (iv)] A **building** structure comprises a pair of **openwork** metal facing planes spaced apart by extended metal netting of the kind claimed in the parent Specification, one or both of the planes being formed by, or having attached thereto, metal netting of a finer mesh. The planes may be coated with cement, plaster &c. and the space filled with insulating material.

Latest standardized assignees - inventors removed

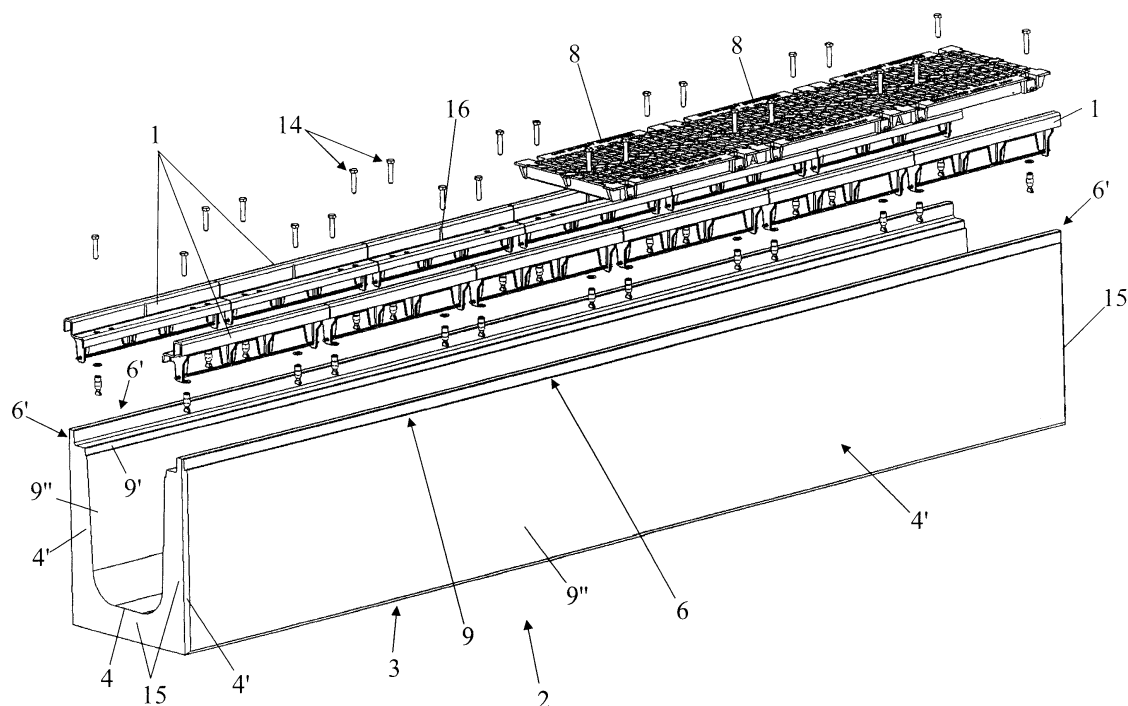
FERNAND JILES JOSEPH SERVAIS

Family 62/100 - FAMPAT - ©Questel

Title

(FR2956674)

Angle beam for use in modular element of channel utilized for e.g. **building** site, has side **wall** portions form hollow structure intended to shape free end of side walls co-operating with intimate conjugated forms

Images**Publication numbers with kind code & date**[FR2956674](#) B1 2013-02-15 FR2956674

FR2956674

A1 2011-08-26 FR2956674

Abstract

(FR2956674)

The beam (1) has a shaped **wall** intended to be connected on a free end (6) of one of two side walls (4') of a U section body (3) of a channel (2). The shaped **wall** defines a rabbet or a shoulder for receiving an **openwork** plate element that forms a grill. Side **wall** portions cover an edge (6') and upper edge zones (9, 9') of external and internal faces of the side walls of the body of the channel. The **wall** portions form a hollow structure intended to shape the free end of the side walls co-operating with intimate conjugated forms. An independent claim is also included for a modular element of a channel comprising a U section body.

(From FR2956674 A1)

Inventors

PLATZ THIERRY

ANTONI HERVE

Latest standardized assignees - inventors removed

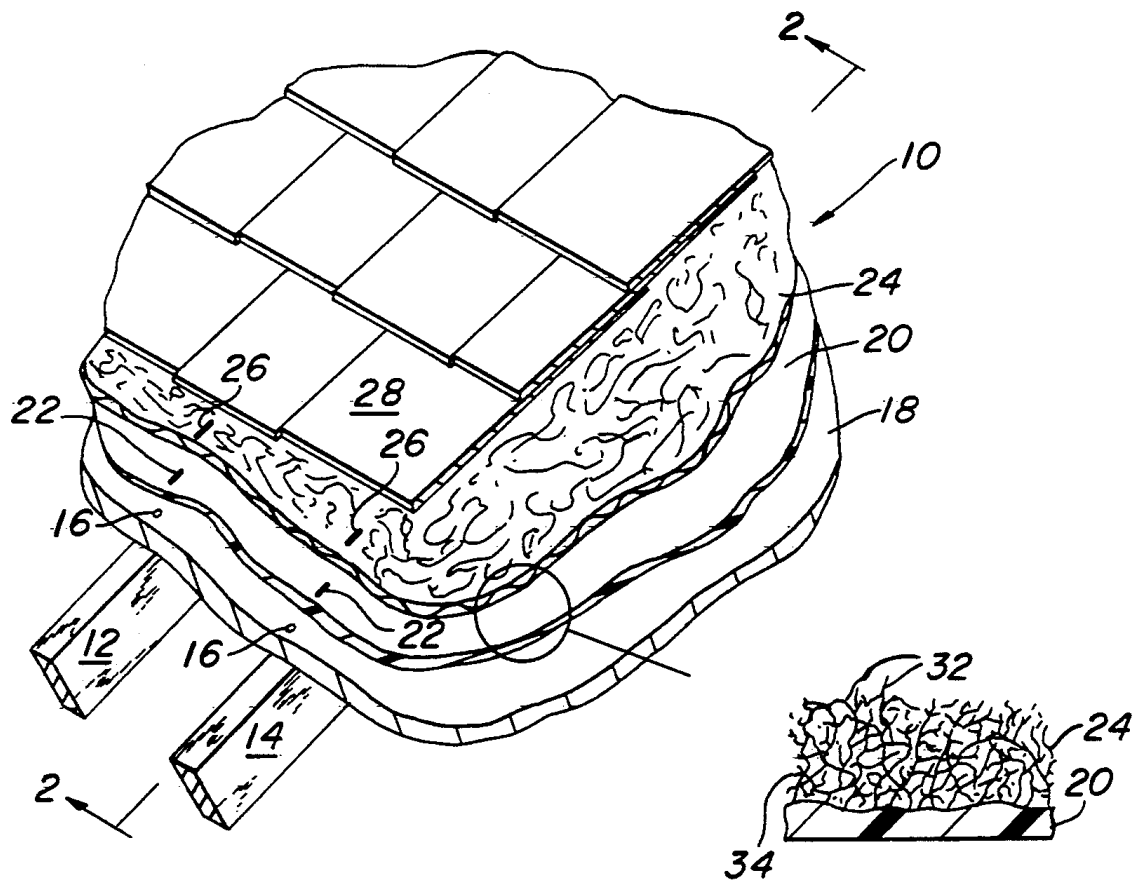
HAURATON FRANCE

Family 63/100 - FAMPAT - ©Questel

Title

(US5099627)

Vented roof construction and method

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

US5099627

A 1992-03-31 US5099627

**Abstract**

(US5099627)

A **building** structure of particular utility in wooden roof structures comprises an inner sheathing member, a membrane

affixed to and overlaying the inner sheathing member, and an **openwork** member overlaying the membrane and supporting shingles away from the inner sheathing member. A method of installing a wooden roof structure so as to retard deterioration due to entrapped moisture involves affixing to a deck a layer of roofing felt, positioning over the felt an **openwork** matrix leaving multiple vapor flow paths therethrough, and affixing over the matrix a layer of shingles.

Inventors

COULTON MICHAEL S

CYLIAX CURT A

EHRMAN GEOFFREY N

Latest standardized assignees - inventors removed

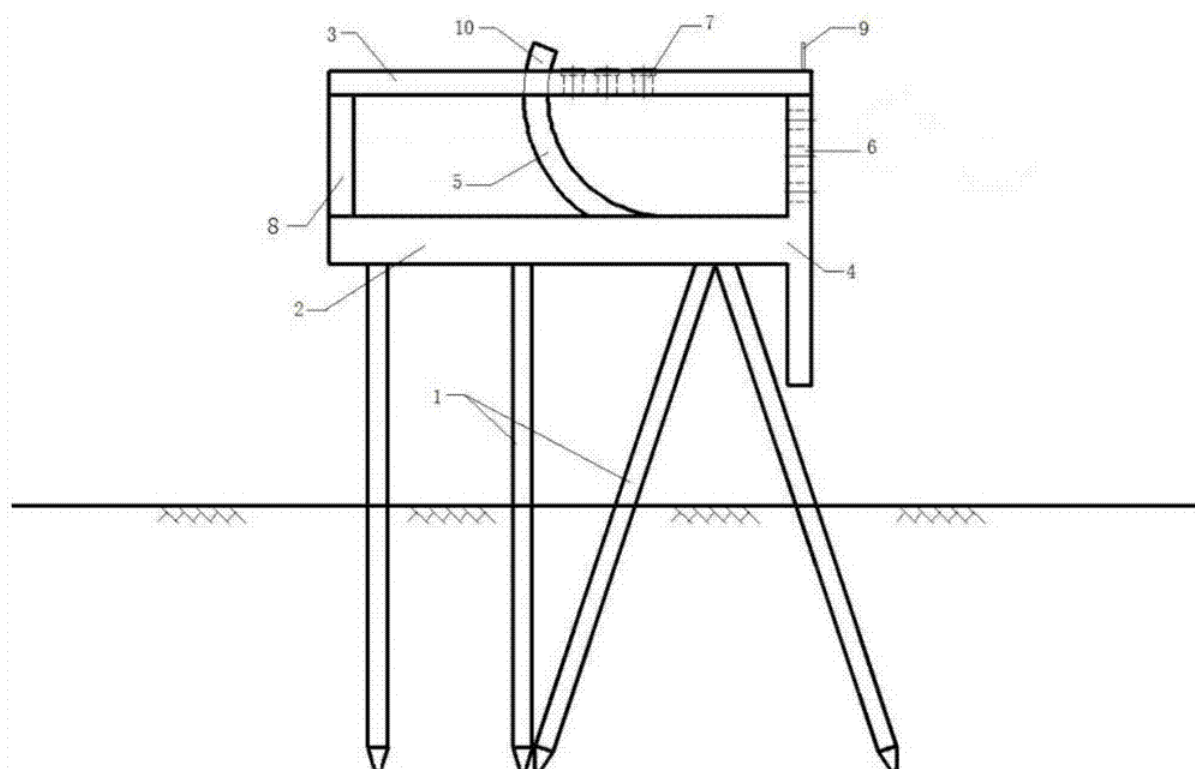
BENJAMIN OBDYKE JOHN FITCH INDUSTRIAL PARK WARMINSTER

BENJAMIN OBDYKE

Family 64/100 - FAMPAT - ©Questel

Title

(CN208280081U)

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

CN208280081 U 2018-12-25 CN208280081U

**Abstract**

(CN208280081)

The utility model discloses an **openwork** breakwater, including supporting pile, the cushion cap, preceding baffle and cowl in order to constitute the wave absorption room are connected with cushion cap and overhead gage to the overhead gage, and supporting pile supports the wave absorption room has been set up a plurality of waves that make and has been got into on the preceding baffle the indoor through-hole of wave absorption. The utility model discloses an advantage is not only simple structure of this **openwork** breakwater, and wave absorbing effect is excellent, stability strong, the hydrophilicity is excellent, is applicable to the great area of tidal range, and application scope is more extensive.

Inventors

WANG QI

JI XIAOTANG

YU QIANQIAN

SANG AIJIE

YAN SHICHANG

Latest standardized assignees - inventors removed

HOHAI UNIVERSITY

Family 65/100 - FAMPAT - ©Questel

Title

(US3304675)

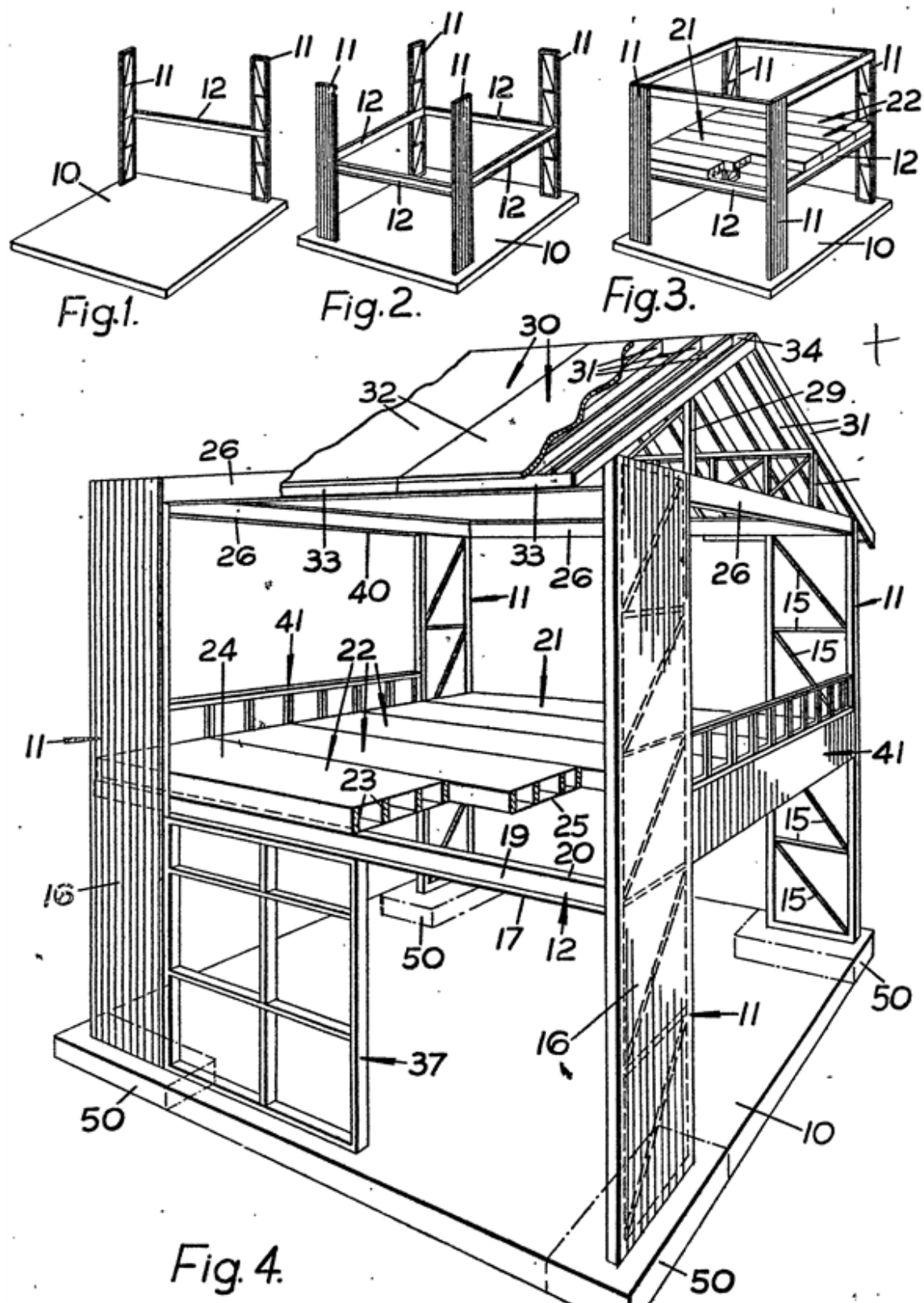
Building constructions

Images

37a 1-18 14 59 991

O.T.: 9.1.1969

1459991



Publication numbers with kind code & date

DE1459991	A1	1969-01-09	DE1459991
SE306605	B	1968-12-02	SE-306605
US3304675	A	1967-02-21	US3304675
GB1019484	A	1966-02-09	GB1019484
FR1399993	A	1965-05-21	FR1399993
NL6405127	A	1965-03-22	NL6405127



BE648681	A	1964-10-01	BE-648681
ES299627	A1	1964-09-01	ES-299627
NL128707	C	0	NL-128707D

**Abstract**

(US3304675)

1,019,484. **Building** framework; domestic buildings. LOWTON CONSTRUCTION GROUP Ltd. Feb. 20, 1964 [Sept. 20, 1963], No. 37026/63. Headings E1A and E1V. A dwelling house comprises a framework having rectangular panel-like vertical columns 11 each having one of its vertical edges disposed at a respective corner of the structure, a horizontal floor beam 12 being secured to each column at a position spaced away from both ends of the column and at a height corresponding to an upper floor level so as to project substantially in the plane of the panel forming said column away from the other vertical edge thereof, and being connected to said one vertical edge of the next adjacent column. The columns 11 may be of rectangular **openwork** formation which may be faced before or after erection with plywood, plastics, pre-cast concrete or the like. The beams 12 may be of Z- section with the lower flange 17 outwardly directed to receive **wall** panelling, window frames and the like whilst the upper flange 20 is inwardly directed to support prefabricated flooring units 22. Eaves beams 26, which may be similar to the beams 12 are secured to the tops of the columns 11 parallel to the beams 12. A roof of any desired form is provided by prefabricated roofing elements such as 30 supported by the beams 26. Two or more similar structures may be placed side-by-side to form semidetached or terraced houses. The columns 11 and beams 12, 26 may be of metal timber, plastics or concrete.

(From GB1019484 A)

Inventors

EDWARD GRAHAM-WOOD

FRANK BERRY

FREDERICK HORRIDGE JAMES

JOHN FOXWELL

Latest standardized assignees - inventors removed

LOWTON CONSTRUCTION

Family 66/100 - FAMPAT - ©Questel

Title

(EP1583661)

Stretchable film laminates and methods and apparatus for making stretchable film laminates

Images

least one film die both attached to the extruder(s), and at least one nip downstream of the extruder(s).

Inventors

COLLIER LESLIE WARREN VI

SHAWVER SUSAN ELAINE

DAY BRYON PAUL

MAY RAYMOND JEFFREY

FITTS JAMES RUSSELL JR

MORMAN MICHAEL TOD

VARRIALE MONICA

LAKE MATTHEW BOYD

MATELA DAVID MICHAEL

SUDDUTH GREGORY TODD

PALMER RANDALL JAMES

MORELL CHARLES JOHN

POTNIS PRASAD SHRIKRISHNA

GUIRGUIS RASHA WAFIK ZAKI

NECULESCU CRISTIAN M

ZHOU PEIGUANG

Latest standardized assignees - inventors removed

KIMBERLY CLARK WORLDWIDE

Family 67/100 - FAMPAT - ©Questel

Title

(JP2003073204)

Method for exterminating flying noxious insect in room of house

Publication numbers with kind code & date

TH47596	B	2016-01-08	TH--47596B			
BRPI0203445	A2	2012-11-13	BR200203445			
MY139211	A	2009-08-28	MY-139211			
KR100877091	B1	2009-01-07	KR100877091			
IN0655/CHE/2002	A	2007-07-20	IN2002CH00655			
CN1248583	C	2006-04-05	CN1248583C			
ES2204308	B1	2005-06-16	ES2204308			
AR036418	A1	2004-09-08	AR--36418			
ES2204308	A1	2004-04-16	ES2204308			
TH61303	A	2004-03-26	TH--61303			
BR0203445	A	2003-05-20	BR200203445			
CN1406483	A	2003-04-02	CN1406483			
JP2003073204	A	2003-03-12	JP2003073204			
KR20030021122	A	2003-03-12	KR20030021122			
ITTO20020756	A1	2003-03-06	IT2002TO0756			
BRPI0203445	A1	2002-10-01	BR200203445			
ITTO20020756	D0	2002-08-29	IT2002TO0756			

Abstract

(JP2003073204)

PROBLEM TO BE SOLVED: To provide a method for efficiently exterminating flying noxious insects in a room of a house such as mosquitoes, flies, etc., by a simple means such as a spraying treatment without requiring repeated sprayings or a continuous operation of an electric utensil, etc. SOLUTION: This method for exterminating flying noxious insects in the room of the house is provided by attaching 1R-trans-2,3,5,6-tetrafluorobenzyl 3-(2,2-dichlorovinyl)2,2-

dimethylcyclopropanecarboxylate on the surface of a structural material or furniture in the room.

Inventors

IWASAKI TOMONORI

Tadashi Matsunaga Isao

Latest standardized assignees - inventors removed

SUMITOMO CHEMICAL

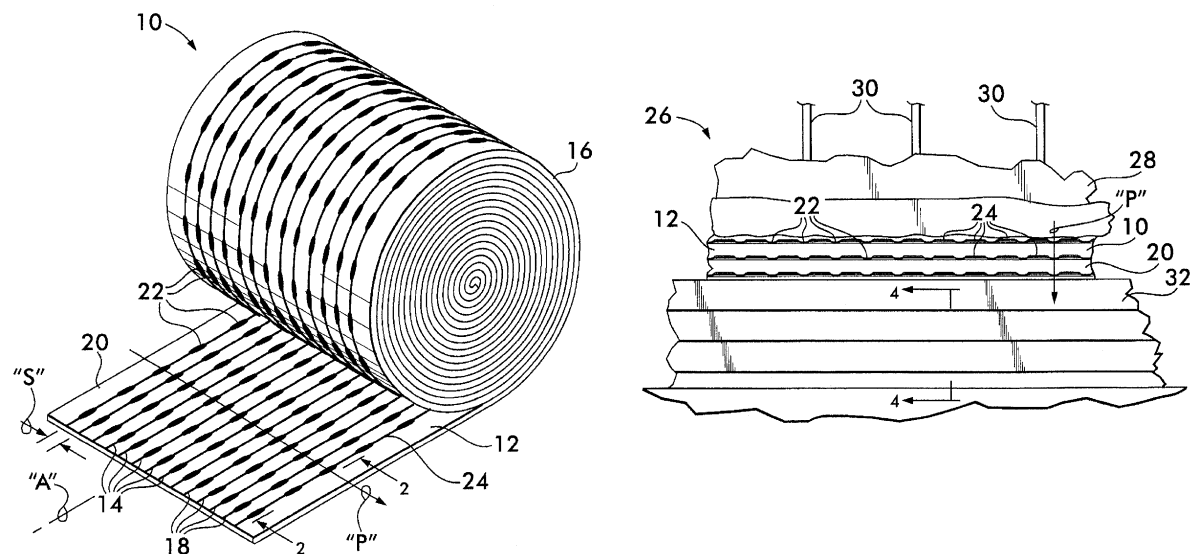
Family 68/100 - FAMPAT - ©Questel

Title

(US7607270)

Drainage-promoting wrap for an exterior wall or roof of a building

Images



Publication numbers with kind code & date

CA2597239	C	2015-06-23	CA2597239
US7858174	B2	2010-12-28	US7858174
US20090320399	A1	2009-12-31	US20090320399
US7607270	B2	2009-10-27	US7607270
US20080041005	A1	2008-02-21	US20080041005
CA2597239	A1	2008-02-16	CA2597239



Abstract

(US20080041005)

A drainage-promoting wrap includes an elongate web of a weather-resistive membrane and a series of separate, laterally spaced-apart, elongate filament spacers bonded to a face of the membrane. The filaments are preferably extruded polymeric filaments and have depressions formed therein providing transverse drainage paths across the filaments. Preferably, the filaments extend substantially parallel to each other and to a longitudinal axis of the elongate membrane. In addition, preferably the membrane is made of a polymeric material so that the filaments are thermally bonded to the face of the membrane. Wall and roof assemblies utilizing the wrap and methods of making the wrap are provided.

Inventors

EHRMAN GEOFFREY N

RANDELLO NATHAN L

MCCORSLEY III CLARENCE C

Latest standardized assignees - inventors removed

BENJAMIN OBDYKE

COLBOND

Family 69/100 - FAMPAT - ©Questel

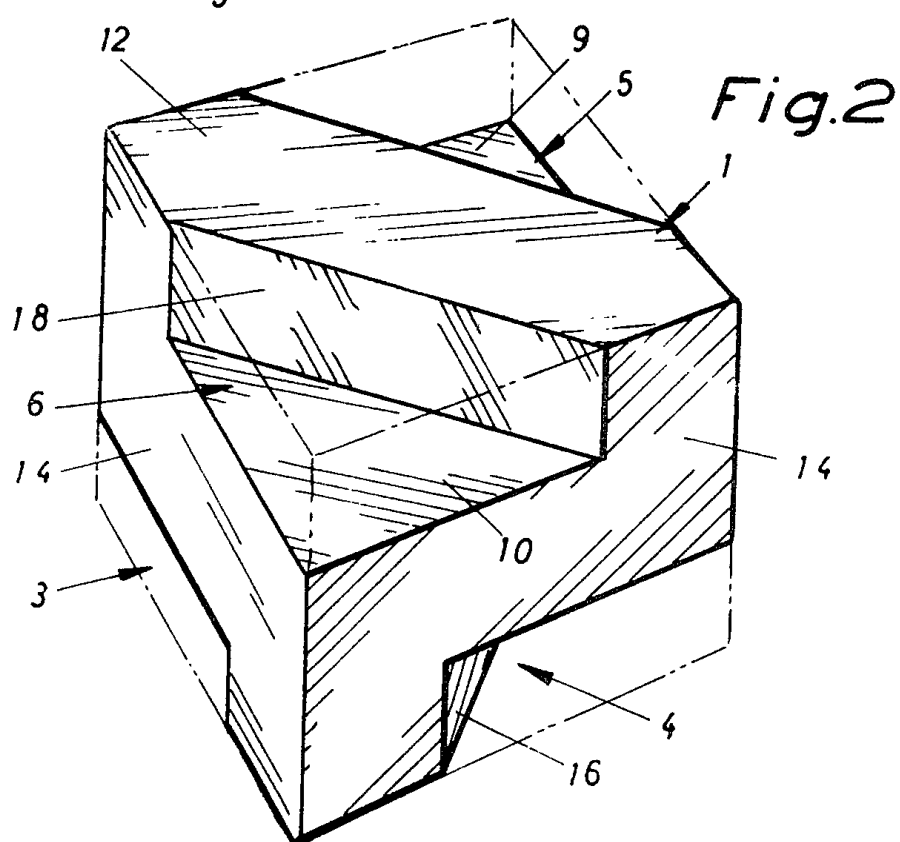
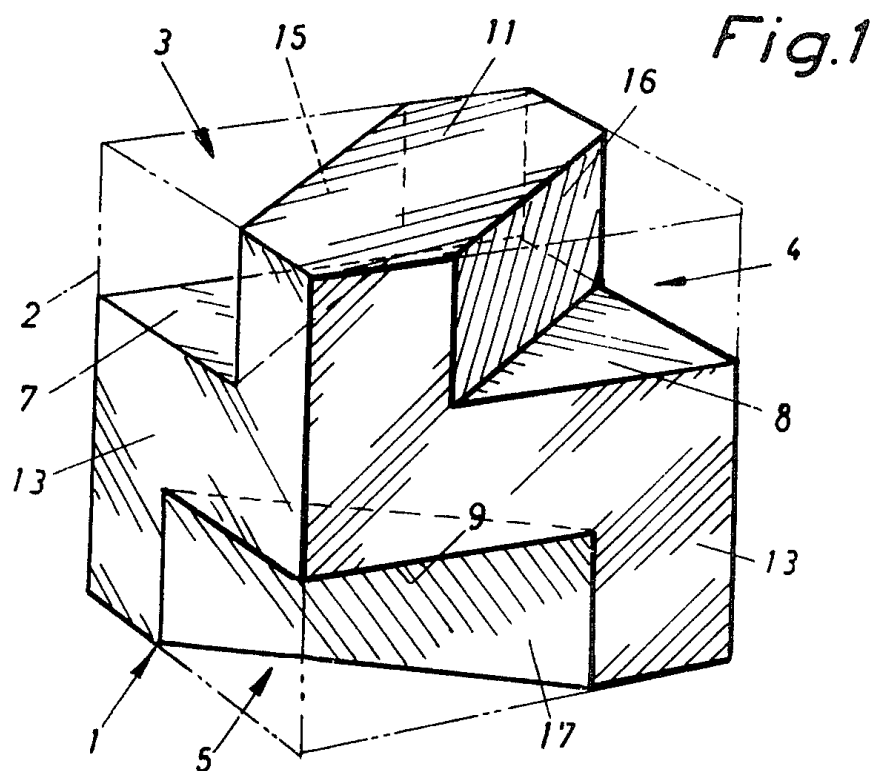
Title

(US3672110)

Building block

Images

SHEET 1 OF 5



INVENTOR
PER CHRISTER NORDSTROM
BY

Haue, Palmer, Haue, Sullivan & Kurecz

Publication numbers with kind code & date

DE2104214	B2	1976-02-05	DE2104214
ES195660	Y	1975-07-16	ES-195660Y
ES195660	U	1975-02-16	ES-195660U
FR2080527	B1	1974-08-19	FR2080527
GB1279371	A	1972-06-28	GB1279371
US3672110	A	1972-06-27	US3672110
CH519069	A	1972-02-15	CH-519069
FR2080527	A	1971-11-19	FR2080527
FR2080527	A1	1971-11-19	FR2080527
SE339550	B	1971-10-11	SE-339550
DE2104214	A1	1971-09-02	DE2104214

**Abstract**

(US3672110)

A **building** block for erection of interior and exterior walls, partitions and like structures. The **building** block is shaped in such a way that by combining it in various ways it makes possible to obtain walls providing simultaneously **building**-technical advantages and aesthetical effects. The basic shape of the **building** block is, in the preferred embodiment, that of a cube from which four corner pieces have been cut away such that four triangular faces are formed in the cubic body. These triangular faces extend essentially in parallel with two opposite side faces of the cube, and have two of its sides contiguous to two of the remaining, non-opposite walls of the cube. The sides of the cut-away triangles opposite the apex define a rectangular face extending in pairs in parallel relationship with one diagonal line, and also in pairs in parallel relationship with the other diagonal line of the side opposite faces of the cube, one diagonal line crossing the other diagonal line preferably at right angles.

Inventors

NORDSTROM PER CHRISTER

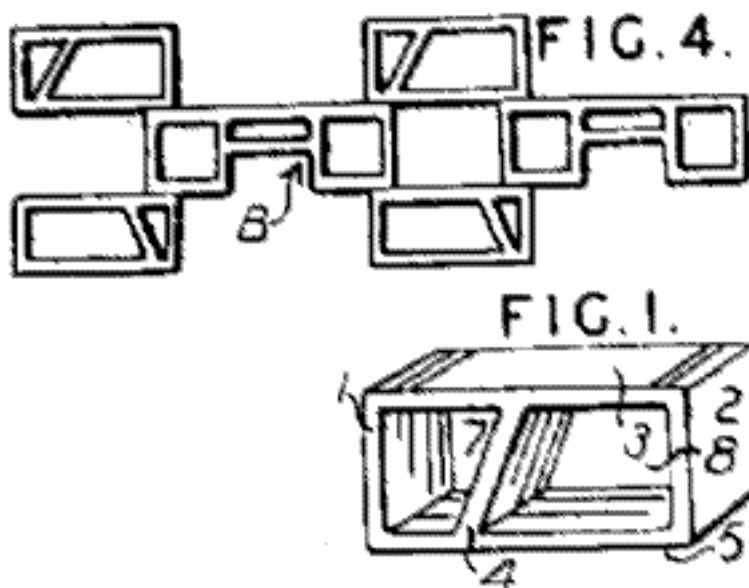
Latest standardized assignees - inventors removed

NORDSTROM PER

Family 70/100 - FAMPAT - ©Questel

Title

(GB-893841)

Building element**Images**

Publication numbers with kind code & date

[GB893841](#) A 1962-04-11 GB-893841

**Abstract**

(GB893841)

893,841. **Building** blocks; walls. SOC. CERAMICHE DI SANT 'ANDREA a.r.l. Dec. 15, 1958, No. 40356/58. Classes 20(4) and 87(1) A **building** block for an **openwork wall** or screen comprises side walls 3, 5 connected by end walls 1, 2 and an inclined intermediate **wall** 4 forming unequal openings 7, 8 through the block. The blocks may be laid in various ways alone or with blocks B, Fig. 4.

Inventors

CERRI FRANCO

Latest standardized assignees - inventors removed

CERAMICHE DI SAINT ANDREA A R

Family 71/100 - FAMPAT - ©Questel

Title

(DE3247039)

Interconnection system for forming structural elements

Images

Anmeldetag:

18. Dezember 1982

Offenlegungstag:

20. Juni 1984

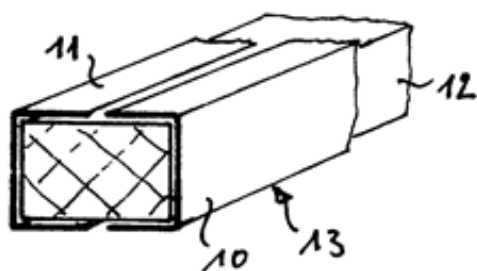


Fig. 1

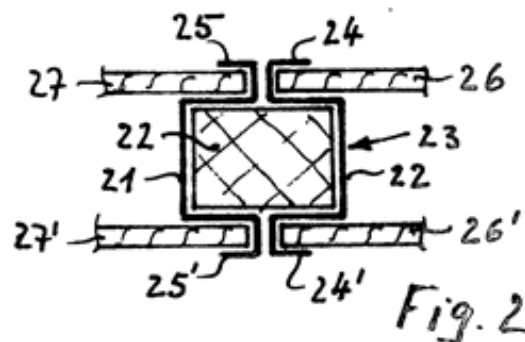


Fig. 2

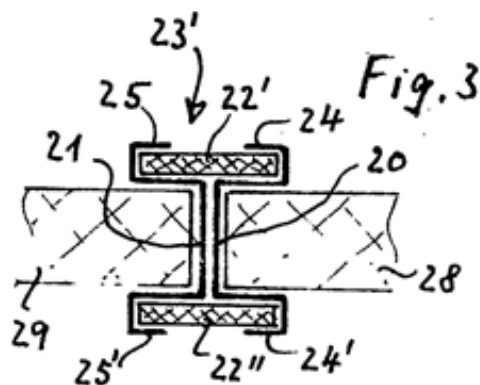


Fig. 3

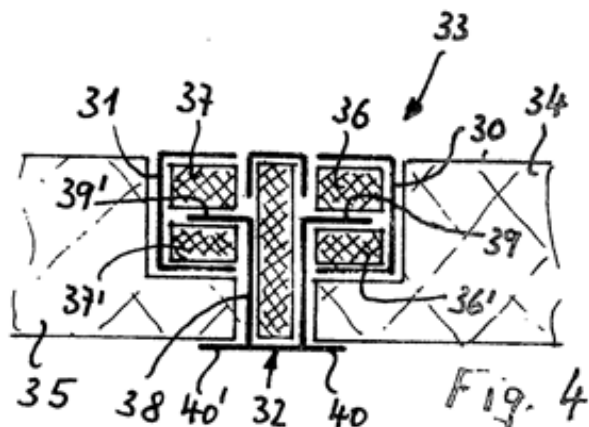


Fig. 4

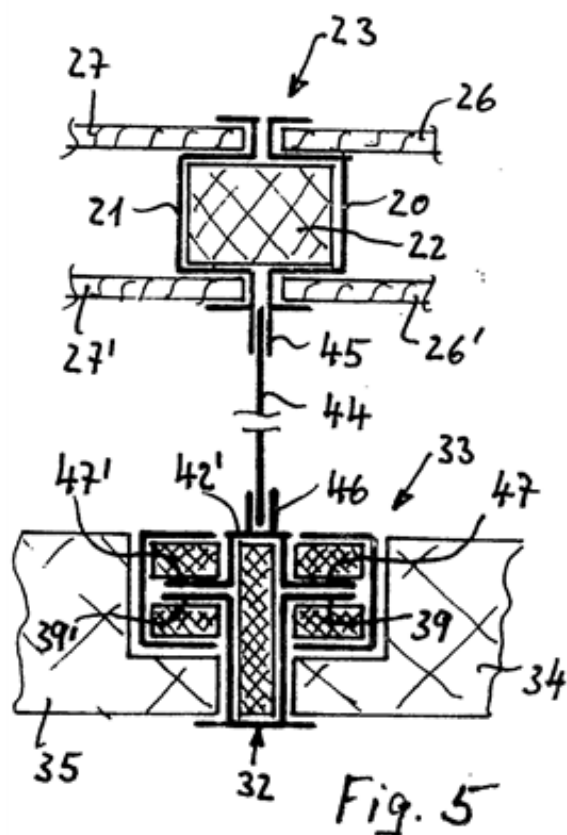


Fig. 5

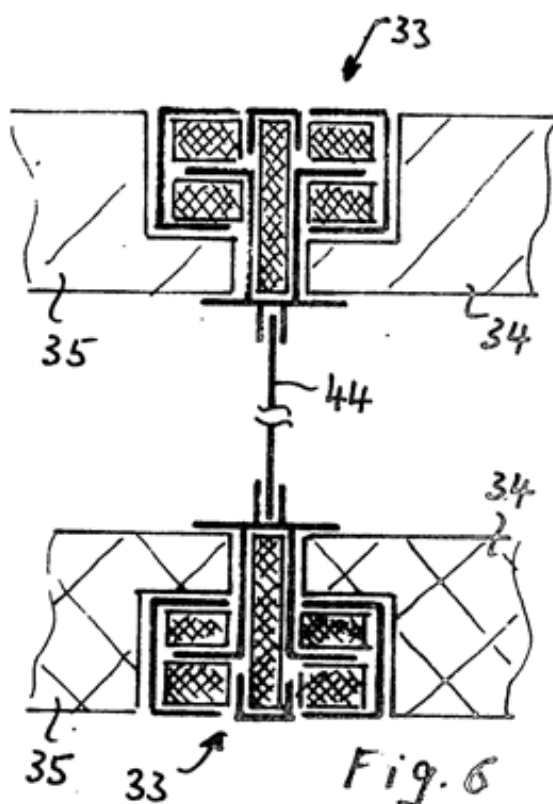


Fig. 6

Publication numbers with kind code & date

DE3332900

A1 1985-03-28

DE3332900

DE3247039

A1 1984-06-20

DE3247039

Abstract



(DE3247039)

The interconnection system for forming structural elements in the form of supports, load-bearing members, **wall** elements, two-dimensional load-bearing structures and the like comprises profiles which are fitted together and connected to one another, at least two identical surround profiles being connected to one another by means of at least one connecting profile, said profiles engaging one in the other in an at least partially frictionally locking manner and forming a plug-in connection. The connecting profile may be a strip which has the surround profiles engaging over its edges and consists, for example, of polyurethane-based rigid foam, or it may also be an assembled profile. A characterising feature of the connecting system is also the possibility of constructing double-leaf **wall** systems and/or grid-type load-bearing structures having two-dimensional elements accommodated in the divisions of the load-bearing structure, for example ventilated curtain walls.

Inventors

KOCH GUENTHER DIPL ING

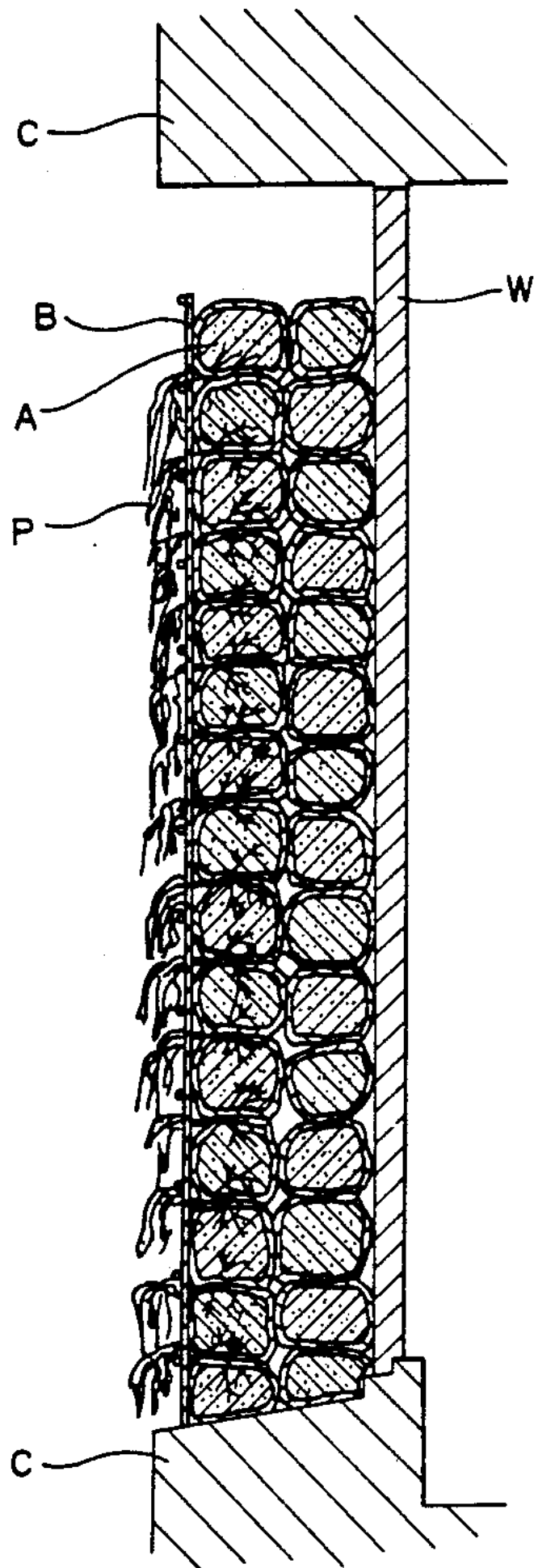
Family 72/100 - FAMPAT - ©Questel

Title

(US5257476)

Growing vegetation for the purpose of installing verdure on buildings

Images



Publication numbers with kind code & date

JP2561882	B2	1996-12-11	JP2561882
US5257476	A	1993-11-02	US5257476
JP05227843	A	1993-09-07	JP05227843

**Abstract**

(US5257476)

Verdure is installed on buildings by stacking bags made of unwoven polyester fabric and filled with synthetic light-weight soil against the outer **wall** of the **building**, or against the outside of a window that is to be blocked out. The bags are stacked several bags high and are retained by a stainless steel lattice. The roots of coniferous evergreen plants are inserted between the bags and grow into the soil in the bags. The plants grow outside the lattice and cling to the lattice to form greenery covering the side of the **building** or the window.

Inventors

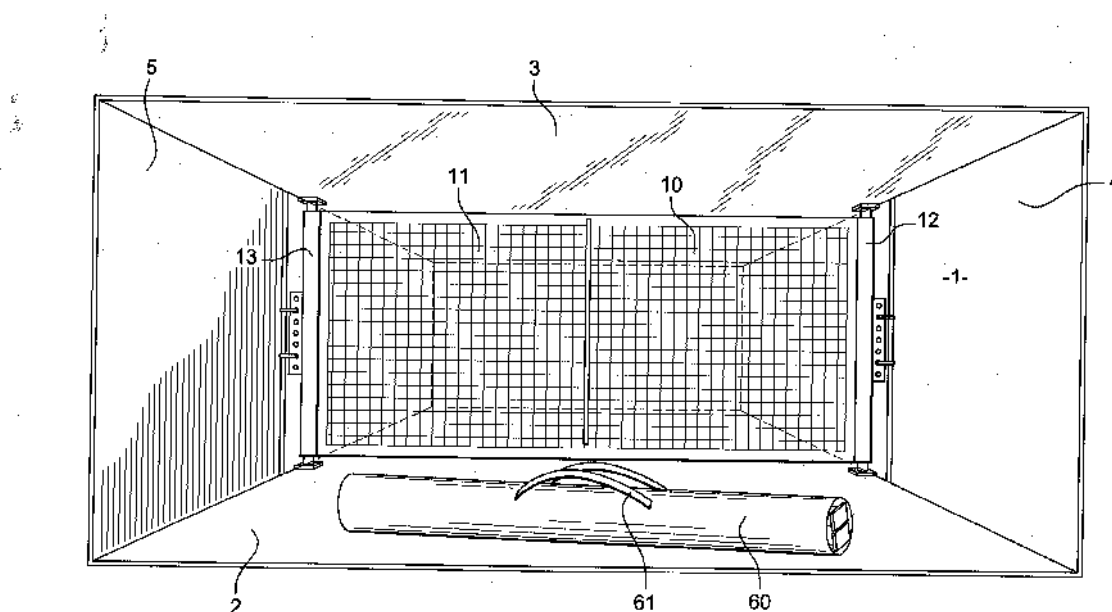
FUKUZUMI YUTAKA

Family 73/100 - FAMPAT - ©Questel

Title

(FR2867726)

Baffle forming device for partitioning storage locker of e.g. motor truck, has mounting posts integrated to **openwork** fabric structure having improved resistance to tear, where each post contacts walls of locker to form baffle

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

FR2867726	B1	2007-04-27	FR2867726
FR2867726	A1	2005-09-23	FR2867726

**Abstract**

(FR2867726)

The device has an **openwork** fabric structure (11) presenting improved resistance to tear. Two lateral mounting posts (12, 13) are integrated to two opposite sides of the structure. Each post is telescopic in order to contact, at its ends, walls (2, 3) of a storage locker for permitting the formation of a baffle. A tamper resistance unit permits displacement of the posts after their installation in the locker.

(From FR2867726 A1)

Inventors

GRANDO STEPHANE

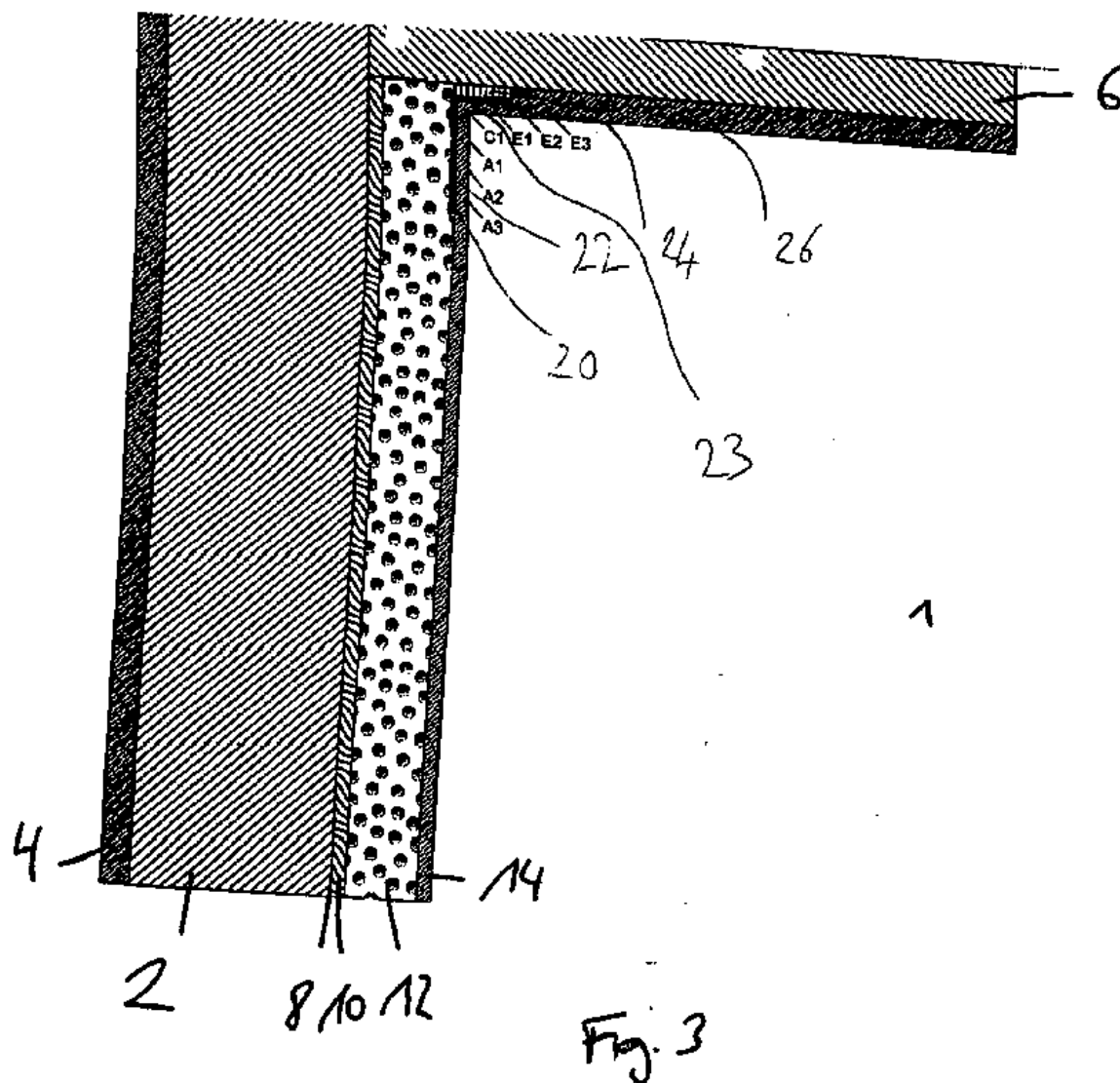
GRANDO ARNALDO

Family 74/100 - FAMPAT - ©Questel

Title

(EP2706159)

Method for reducing or preventing moisture and/or mould formation or damage in thermally insulated areas, use of a thermal conductor to reduce or prevent moisture and/or mould formation or damage in thermally insulated areas and angle profile for reducing or preventing moisture and/or mould damage in thermally insulated areas

Images**Publication numbers with kind code & date**[EP2706159](#) A8 2014-08-20 [EP2706159](#)[EP2706159](#) A1 2014-03-12 [EP2706159](#)**Abstract**

(EP2706159)

The method involves forming a thermal insulation (12) on one side, particularly outer side, and on an opposite side, particularly inner side (8), of an outer wall (2) of a building. An integrating component is extended from the latter side of the wall, particularly an integrating wall (6), an integrating base or an integrating roof. The thermal insulation on the latter side of the wall is extended up to the integrating component to form a corner area (23) by the thermal insulation and the

integrating component. A heat conductor (20) has thermal conductivity greater than the thermal insulation. Independent claims are also included for the following: (1) a corner angle profile with two brackets; and (2) a **building** or component of bathrooms or washrooms with a **wall**, particularly **building** outer **wall**.

Inventors

LOHMANN THOMAS DR

LICKERT ANDREA

Latest standardized assignees - inventors removed

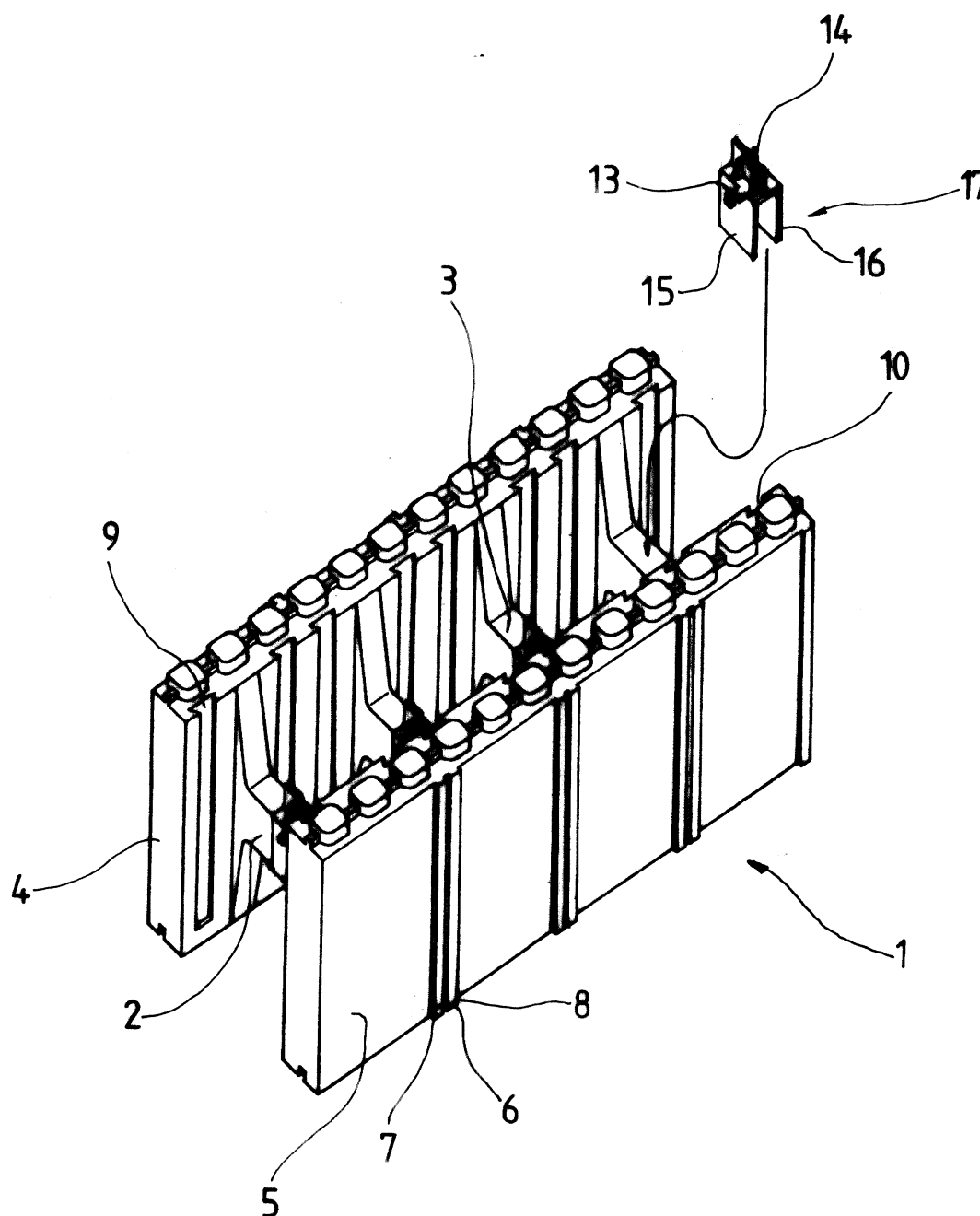
DAW

Family 75/100 - FAMPAT - ©Questel

Title

(KR200150449U)

Construction matrix

Images**Publication numbers with kind code & date**[KR200150449](#)

Y1 1999-07-01 KR200150449U

**Abstract**

(KR200150449)

This invention relates to a **building** block in such a way that during the construction of walls of various **building** formwork assembly and more particularly relates to a formwork with mortar and enhance the rigidity of the reinforcing bar to facilitate the construction of the stenosis, cutting property, good workability in such a manner that, which could be coupled on both sides of the panel (4) (5) and a plurality of connecting pieces (2) (3) to form the same thickness (11) (12) portion at the junction of the connecting piece (2) (3) and a guide groove (14) and the locking (13) piece is formed on the nailing (15) (16) gantry (17) vicecon respectively on both sides of the reinforcing bar inserted into the outer surface of the panel (4) (5) and a plurality of perforations (6) and protrusions (7) (8) are formed on both sides of the inner surface and an underside for cooperating with a plurality of closed it's alien light. yozo (9) (10) characterized in that form.

In this manner by improving the structure of the **building** formwork formwork is robust advantages but also excellent workability (**openwork** reinforcing bar, cutting industry) and embedded in a mortar in between both panels after the panels are cured and rigid structural integrity is excellent as a narrowing of the thermal insulation and moisture barrier, an advantage of high soundproof effect.

Inventors

JEONG, YONG-SIK

Family 76/100 - FAMPAT - ©Questel

Title

(WO2017149184)

Lightweight modular construction system

Images

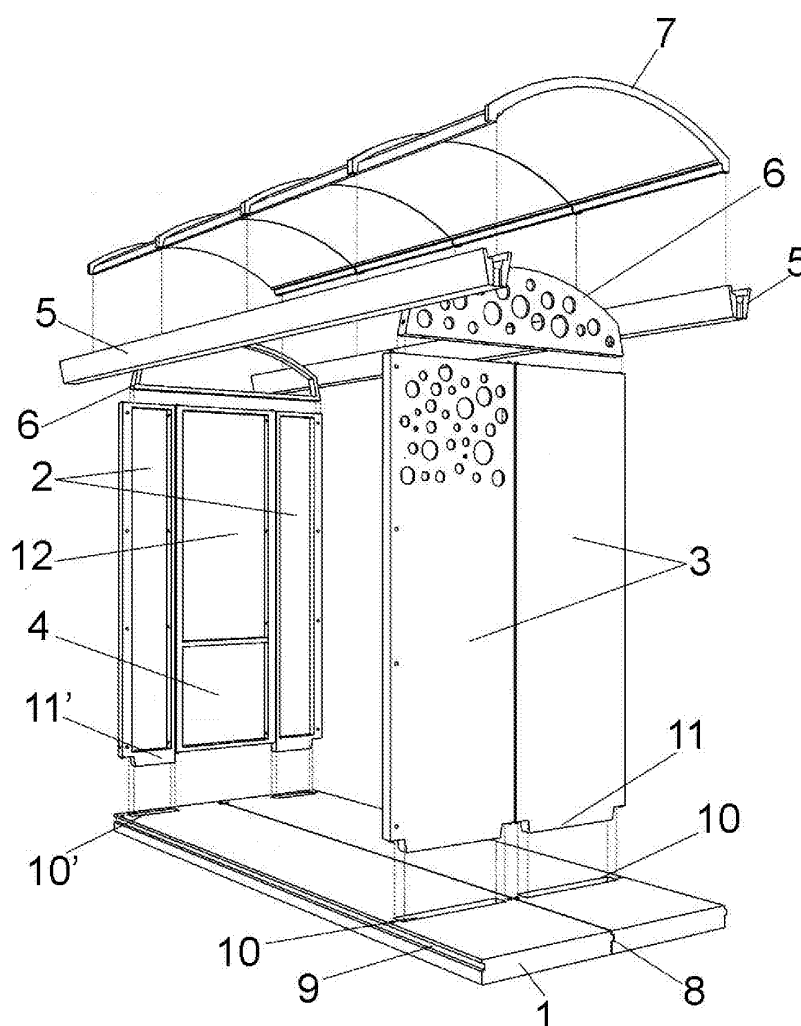


FIG. 1

Publication numbers with kind code & date

MX2018010566	A	2019-02-11	MX2018010566
ES2635280	B1	2018-07-10	ES2635280
ES2635280	A1	2017-10-03	ES2635280
WO2017/149184	A1	2017-09-08	WO2017149184

**Abstract**

(WO2017/149184)

The system permits the production of very different types of constructions based on a series of parts which can be easily manipulated and manually assembled, without the need for heavy machinery, and which are produced from micro-concrete or other similar mouldable materials, such that the work is carried out in a dry condition and without the need for a specialised workforce. For this purpose, the system includes a series of modular parts which are flooring parts (1), half-module **wall** panels (2), entire module **wall** panels (3), window panels (4), beams (5), tympana (6) and cover pieces (7), such that the parts of the system are assembled manually and sequentially, forming a structure of porticos arranged in series and built into the flooring, with the assembly thereof forming a stable exoskeleton that simultaneously acts as a structure, external closure and internal divisions, without requiring other elements or materials to guarantee the stability of the **building**.

Inventors

BOLAÑOS RUIZ JUAN CARLOS

Latest standardized assignees - inventors removed

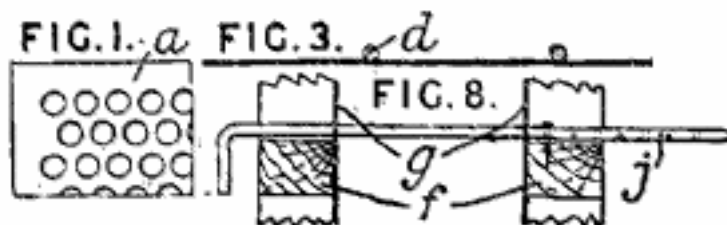
ARQUITECTURA & MANUFACTURA

Family 77/100 - FAMPAT - ©Questel

Title

(GB-440210)

Improvements relating to shuttering or centering for concrete walls and other constructions

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

GB440210 A 1935-12-23 GB-440210

**Abstract**

(GB440210)

440,210. **Wall** centring. HILL, L. C., and HOLLAND & HANNEN & CUBITTS, Ltd., 1, Queen Anne's Gate, Westminster. June 23, 1934, No. 18635. [Class 20 (ii)] Removable **wall** centring comprises panels constructed of timber frames *f* to which is secured **openwork** metal or other reticulated material *g*, the panels being of standardized dimensions. The **openwork** metal may comprise waste sheets *a* from which button or other blanks have been punched, and the sheets may be corrugated or ribbed, or provided with wire projections *d*, Fig. 3, to form grooves in the cast surface. Notched spacer-bars *j*, Fig. 8, may be used to space opposed shutters.

Latest standardized assignees - inventors removed

LEONARD CLAUDE HILL

HOLLAND & HANNEN & CUBITTS L

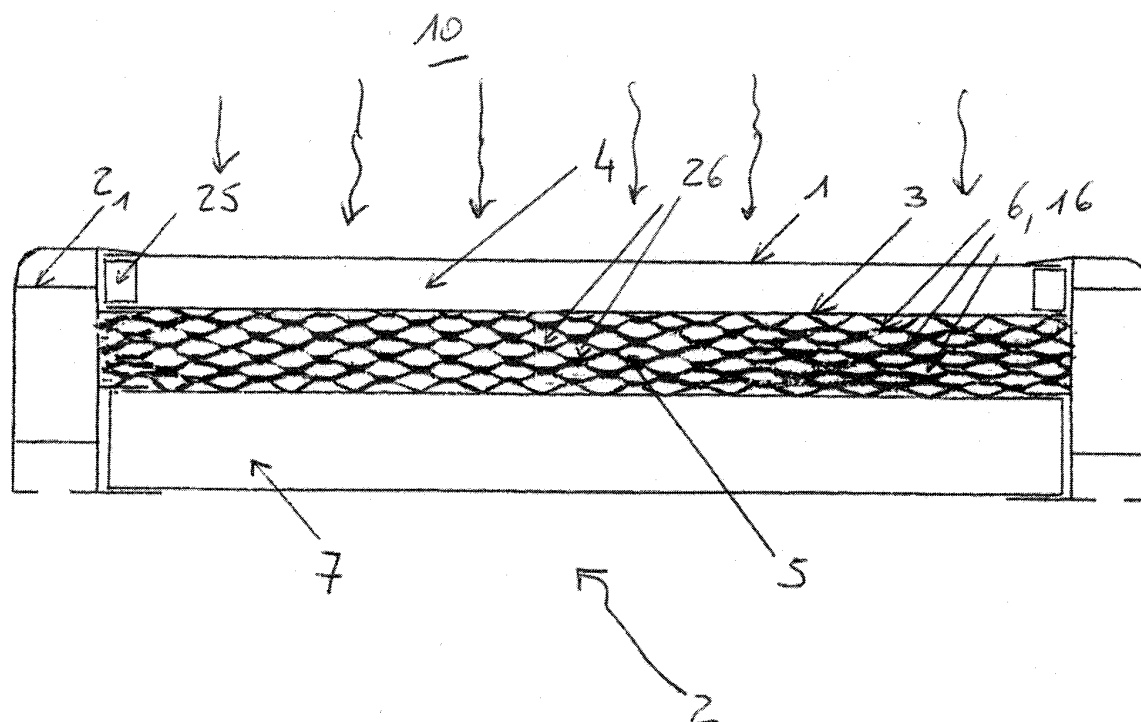
Family 78/100 - FAMPAT - ©Questel

Title

(FR3038972)

SENSOR OF SOLAR ENERGY AND DEVICE OF HEATING WITH HOT AIR COMPRISING SUCH A SENSOR

Images



Publication numbers with kind code & date

FR3038972

A1 2017-01-20 FR3038972



Abstract

(FR3038972)

Sensor of calorific energy solar including a box (2) equipped with a **wall** (1) permeable to the solar radiations (10), with an insulating bottom (7), with a peripheral frame (21) and with an internal **wall** (3) extending under the higher **wall** (1) and dividing the box (2) between a closed space (4) on the side from the higher **wall** (1) and a space (5) forming a conduit from circulation from air to be heated; this internal **wall** (3) transmits the heat of the solar radiation (10) towards the space (5) of circulation of air and this one contains an absorber (6) of this transmitted heat, which absorbent (6) consists of at least an **openwork** structure metal (16) in form of nest-of bees open through which the air is ready to circulate.

Inventors

SIAS FRANCK

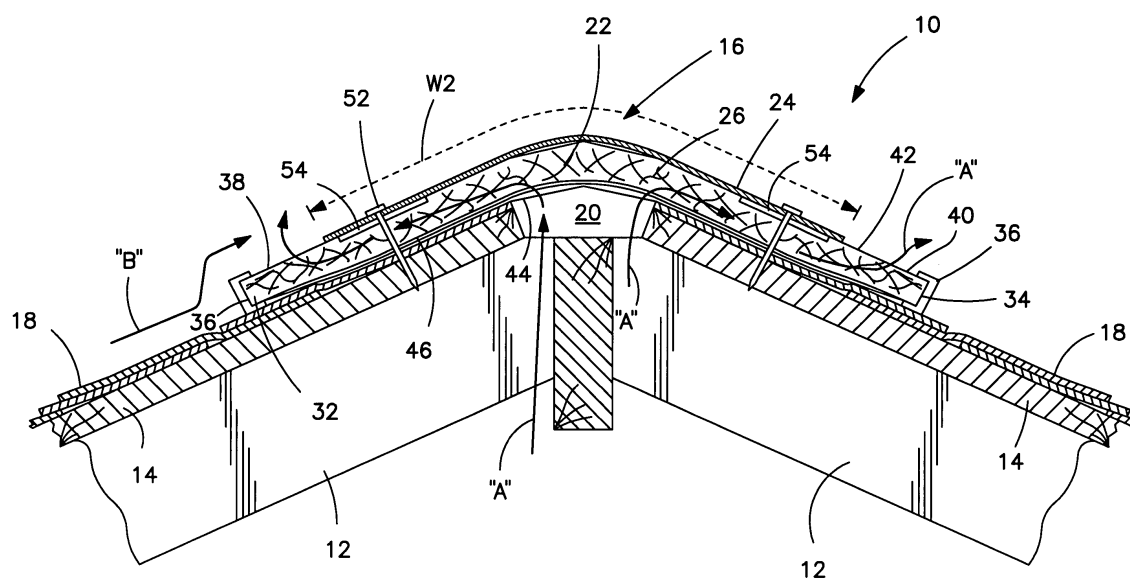
Family 79/100 - FAMPAT - ©Questel

Title

(US7182688)

Rollable roof ridge vent having baffles

Images

**Publication numbers with kind code & date**

US7182688	B2	2007-02-27	US7182688
US20050136831	A1	2005-06-23	US20050136831
CA2490302	A1	2005-06-22	CA2490302

**Abstract**

(US20050136831)

A roof ridge vent formed from a continuous, indeterminate-length, elongate strip of **openwork** material that has a pair of longitudinally-extending side edges each covered with a waterproof material. The edge coverings function as wind baffles and promote air circulation through the vent when wind blows over the roof ridge. The ridge vent is rollable lengthwise into a spiral roll for storage and shipment and is unrolled lengthwise during installation on a roof ridge.

Inventors

COULTON MICHAEL S

Latest standardized assignees - inventors removed

BENJAMIN OBDYKE

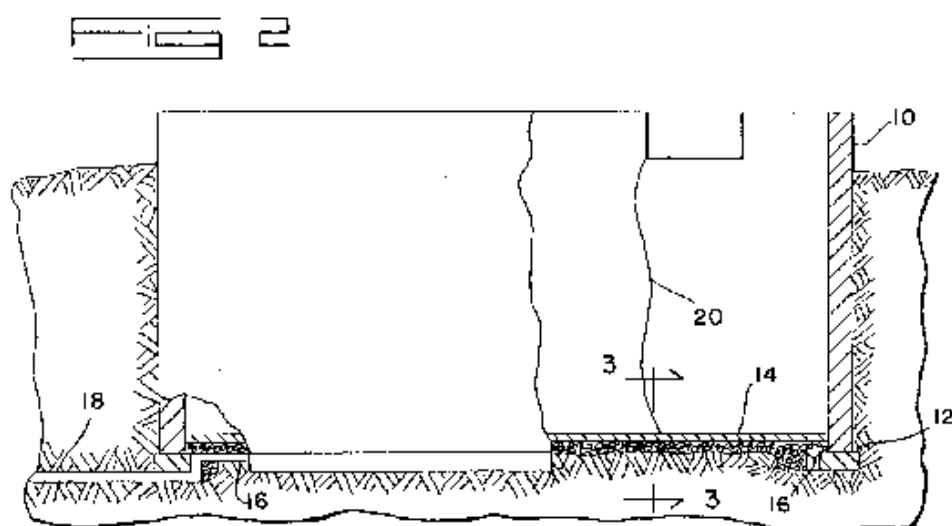
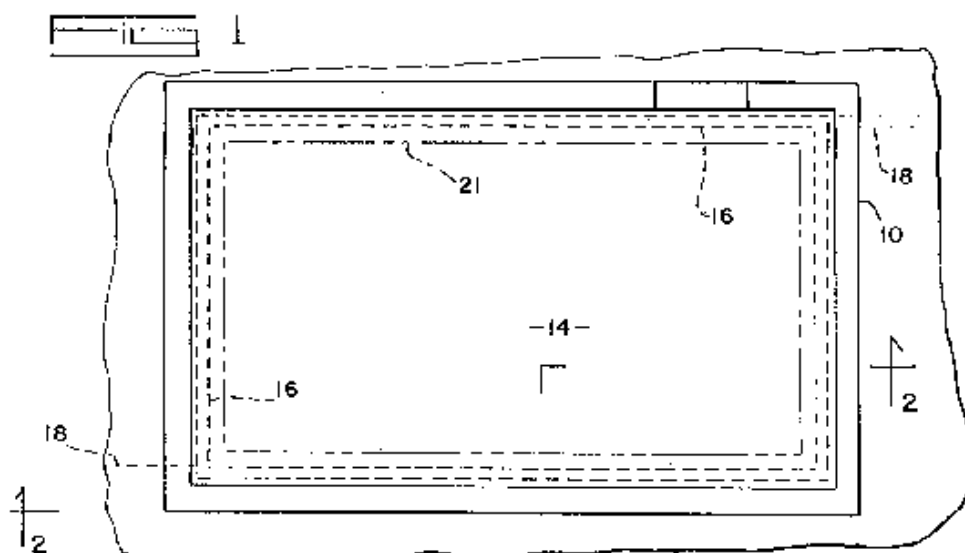
Family 80/100 - FAMPAT - ©Questel

Title

(US5845456)

Basement waterproofing

Images



Publication numbers with kind code & date

[US5845456](#)

A 1998-12-08 US5845456



Abstract

(US5845456)

A drain conduit is disposed contiguous with and sealed to a footer which supports a foundation wall. The conduit is an upwardly open, impervious trough having an openwork cover. Any water leaking through the foundation wall or between the wall and the footer is captured by the drain conduit so that it does not enter the subsoil and weaken the support for the footer. Where the foundation wall has a crack opening onto its inner surface, it is enlarged and then covered by a moisture barrier film strip and a fiberglass panel, both of which are secured to the wall. Leakage water, through the crack, is thus channelized and directed towards the juncture between the inner surface of the wall and the upper surface of the footer for flow into the drain conduit. The panel terminates above the footer and film strip is extended across the footer and overlies

the drain conduit. Where the foundation **wall** is formed of concrete blocks, holes are formed in the lower course of the blocks to drain their interiors onto the footer. Where there is a leakage flow path underneath the footer, the drain conduit is disposed beneath its lower surface.

Inventors

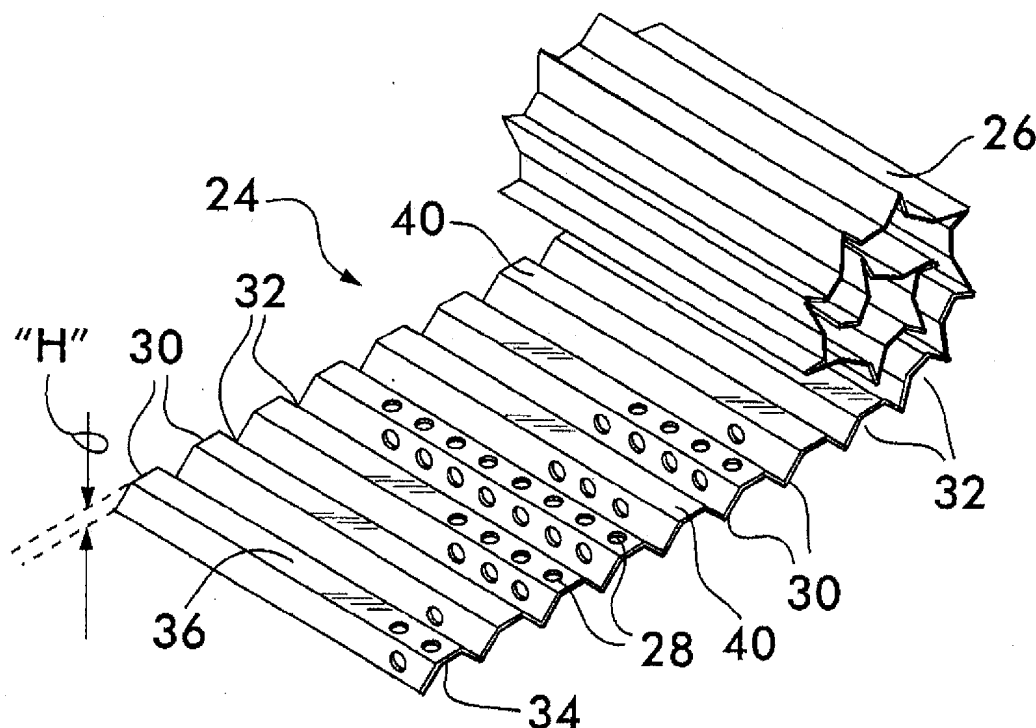
READ ROBERT R

Family 81/100 - FAMPAT - ©Questel

Title

(US20070234650)

Vented Soffit Assembly and Method of Installation

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

US20070234650	A1	2007-10-11	US20070234650
CA2582584	A1	2007-09-27	CA2582584

**Abstract**

(US20070234650)

A continuous, elongate, strip of **openwork** ventilation material is provided in roll form and is unrolled and installed in a soffit as a one-piece, continuous vent along a length of the soffit. The opposite longitudinally-extending side edges of the ventilation material are inserted within opposed, spaced-apart channels lining the periphery of the soffit opening or are provided with laterally-extending fastening strips that are fastened to boards lining the soffit opening.

Inventors

COULTON MICHAEL S

CARUSO GEORGE

OPDYKE JOSEPH

Latest standardized assignees - inventors removed

BENJAMIN OBDYKE

JP3292800	B2	2002-06-17	JP3292800				
TW392923	U	2000-06-01	TW-392923U				
EP0768706	A3	1998-05-20	EP-768706				
US5722707	A	1998-03-03	US5722707				
KR970023971	A	1997-05-30	KR19970023971				
JP09107025	A	1997-04-22	JP09107025				
EP0768706	A2	1997-04-16	EP-768706				

Abstract

(EP0768706)

Proposed is a novel clamping structure between the container body and covering mountable thereon in an air-tightly sealable container such as wafer carriers for semiconductor silicon wafers used for storage and transportation thereof. The clamping structure comprises: (a) a container body and a covering mountable on the container body each provided with an encircling stepped belt around the open periphery, the stepped belts on the container body and the covering being engageable each with the other; (b) a pair of engagement ribs each having an engagement groove and protruded on the open periphery of each of the container body and the covering at oppositely facing positions; and (c) an engagement board which is a resin plate provided with a U-shaped **openwork** notch at the center thereof in the longitudinal direction, the notch being engageable at the upper part thereof with the engagement groove in the engagement rib of the covering and engageable at the lower part thereof opposite to the upper part with the engagement groove in the engagement rib of the container body.

Inventors

HOSOI MASATO

Latest standardized assignees - inventors removed

SHIN ETSU POLYMER

SHINETSU HANDOTAI

Family 83/100 - FAMPAT - ©Questel

Title

(US2187224)

Plastering system

Images

Jan. 16, 1940.

M. M. CORY

2,187,224

PLASTERING SYSTEM

Original Filed Dec. 28, 1936

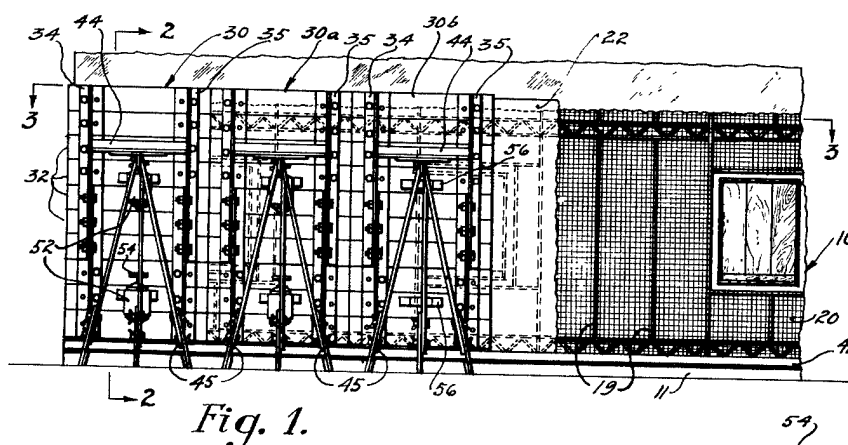


Fig. 1.

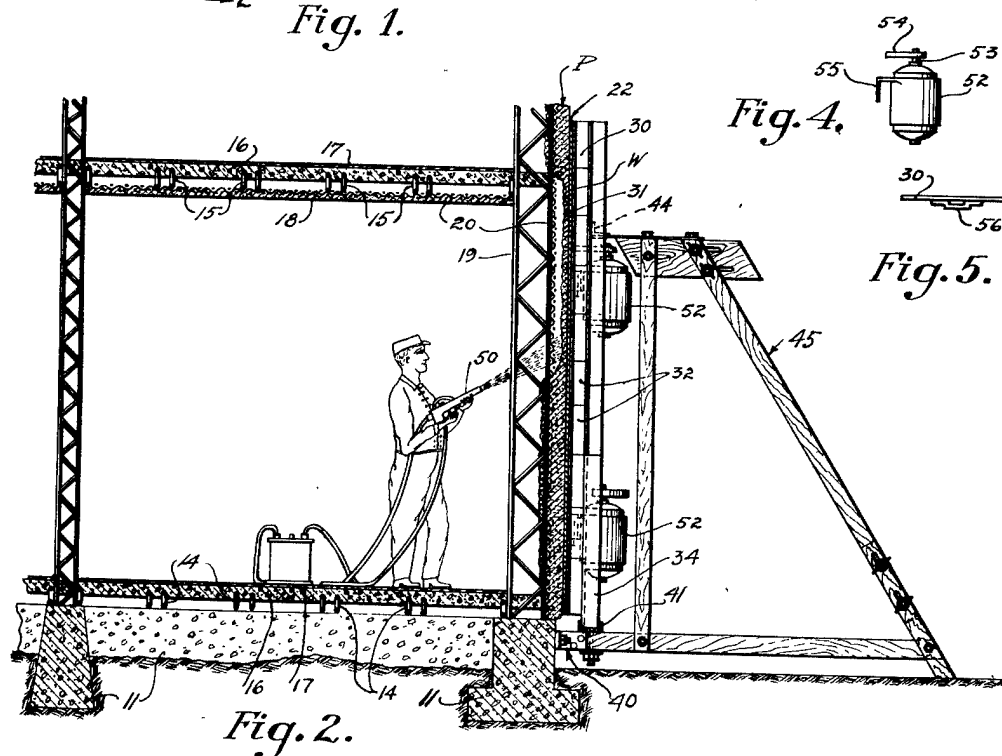


Fig. 2.

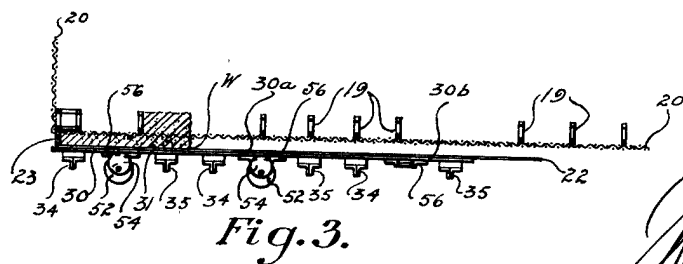


Fig. 3.

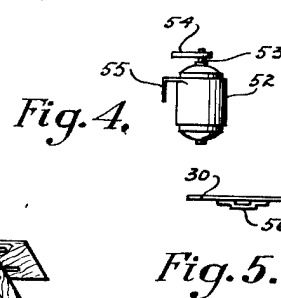


Fig. 4.

Fig. 5.

Inventor.
Marcus M. Cory.

Attorney.

Publication numbers with kind code & date

US2187224

A 1940-01-16 US2187224



Inventors

CORY MARCUS M

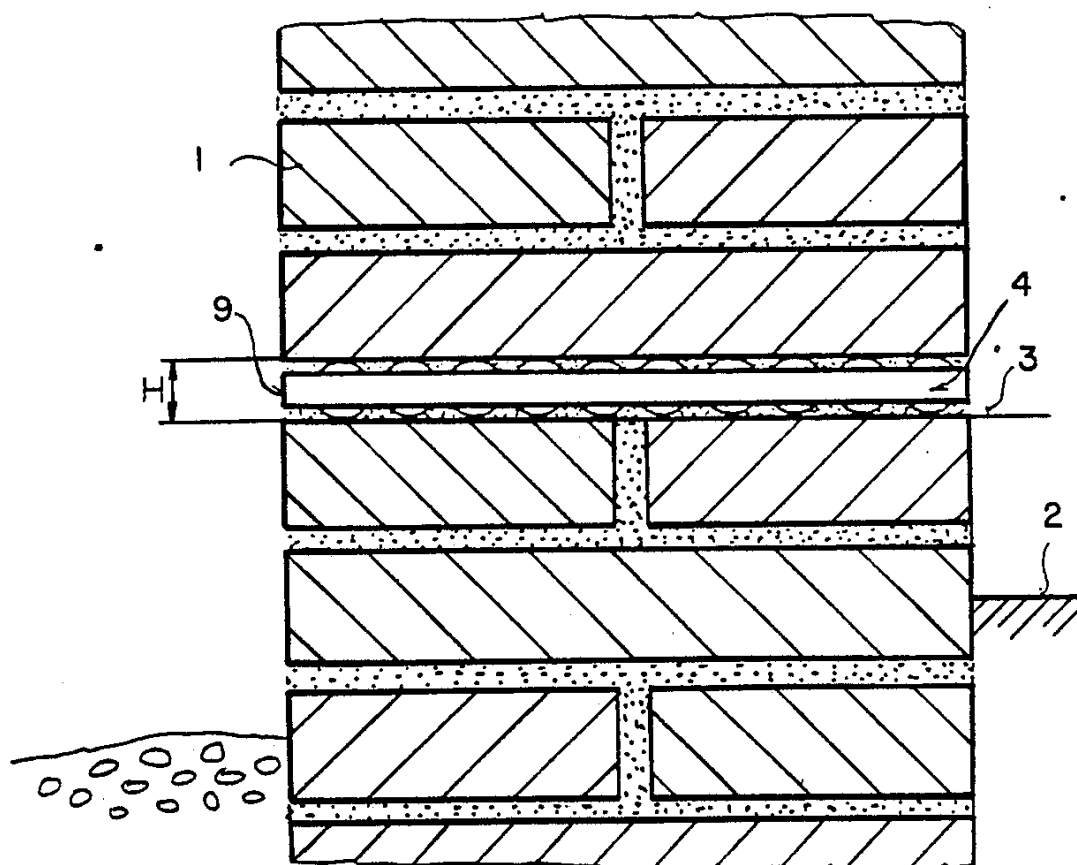
Family 84/100 - FAMPAT - ©Questel

Title

(EP-148173)

Isolation or post isolation method, particularly for **building** walls and insertion element for implementing such method

Images



Publication numbers with kind code & date

FI77502	C	1989-03-10	FI--77502
DK154157	C	1989-02-27	DK-154157C
FI77502	B	1988-11-30	FI--77502
DK154157	B	1988-10-17	DK-154157
DE3374142	D1	1987-11-26	DE3374142
AT30348	T	1987-11-15	ATE030348
EP0148173	B1	1987-10-21	EP-148173
US4686810	A	1987-08-18	US4686810
JPS60501766	A	1985-10-17	JP60501766
EP0148173	A1	1985-07-17	EP-148173
BR8307739	A	1985-06-04	BR8307739
DK92085	A	1985-02-28	DK8500920
DK92085	D0	1985-02-28	DK8500920
FI850824	A	1985-02-28	FI8500824
FI850824	A0	1985-02-28	FI8500824
FI850824	L	1985-02-28	FI8500824
NO850745	A	1985-02-25	NO8500745
NO850745	L	1985-02-25	NO-850745
WO85/00395	A1	1985-01-31	WO8500395



Abstract

(EP0148173)

Method for post leak-proofing or new insulation, particularly for **building** walls, and insertion element for implementing such method. When making a new insulation, the insulated layer to be applied to the surface to be insulated is comprised of prefabricated insertion carrier elements configured as a grid, as well as of an insulating hardenable material introduced into

the opening of the insertion elements (4). In the course of the post leak-proofing, the wall is cut longitudinally into segments in a manner known per se; into the slots thus formed are inserted the carrier elements and the insulation layer. The present invention is characterized in that the grid-like insertion elements (4) prefabricated as carrier elements may be used, whereas the insulation layer is shaped so that a hardenable and insulating agent (10) is injected into the insertion element which has been introduced. The insertion element (4) according to the present invention is conveniently produced from plastic material according to an injection moulding process; it is comprised of a girder grillage (5) and support units (6) combined in a raster. Balls are conveniently used as support units, which balls project outside the plane of the grillage (5) at the top and at the bottom.

Inventors

JANCSOVICS, ISTVAN

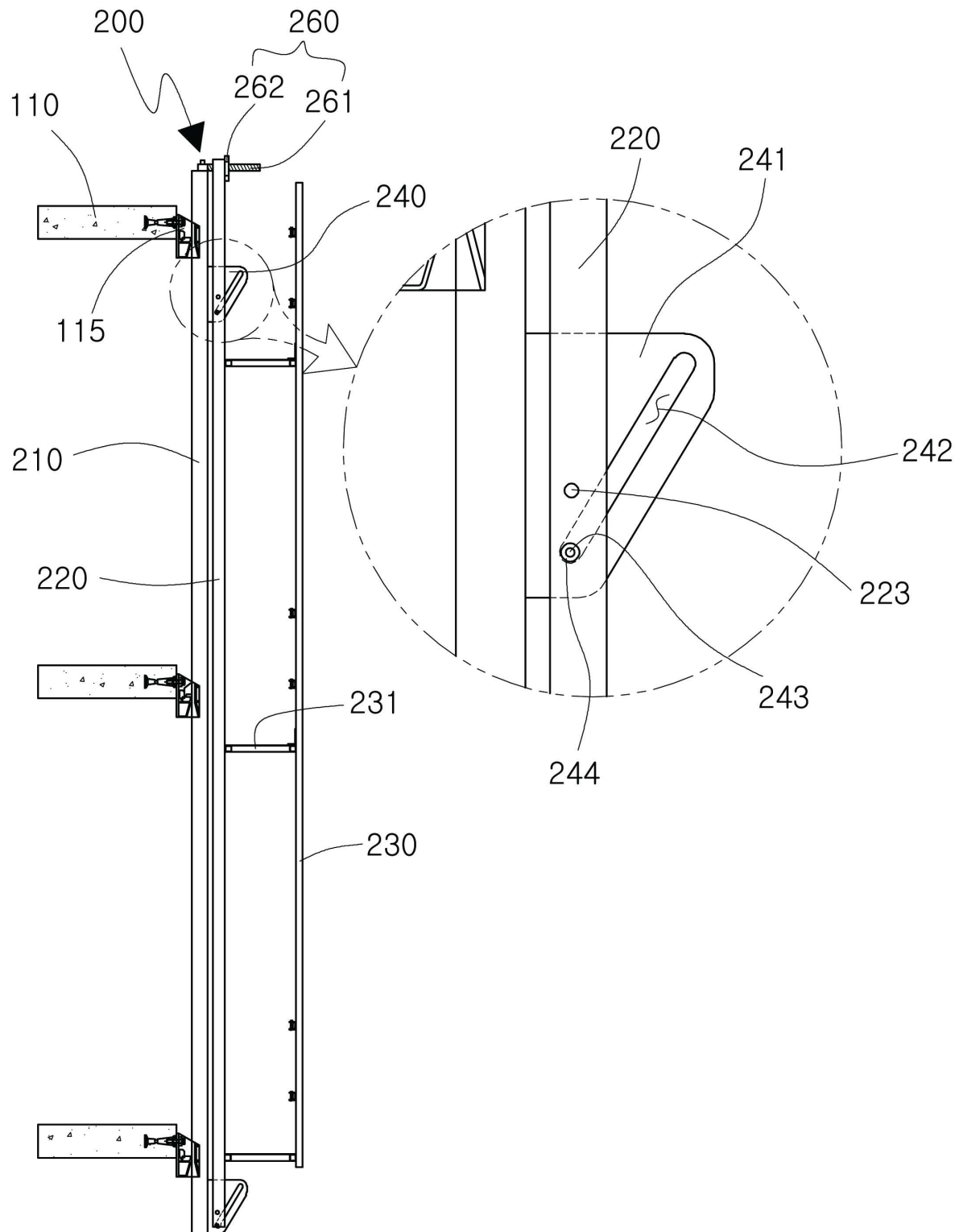
Family 85/100 - FAMPAT - ©Questel

Title

(KR101142839)

Working cage apparatus for construcion

Images



Publication numbers with kind code & date

KR101142839	B1	2012-05-08	KR101142839
KR20110002524	A	2011-01-10	KR20110002524



Abstract

(KR20110002524)

PURPOSE: A work platform apparatus for exterior wall finishing construction and a method of using the same are provided to easily transport materials to a work place through the space between a building wall and the work platform apparatus which moves up and down.

CONSTITUTION: A work platform apparatus for exterior wall finishing construction comprises a guide rail(210), a main rail(220), a work platform(230), and a connection part(240). The guide rail is raised or lowered by engaging with a fixed shoe attached to an exterior wall of a building. The main rail is arranged in parallel to the guide rail. The work platform is installed in the main rail. The connection part connects the guide rail to the main rail so that the distance between the guide

EG10743	A	1976-05-31	EG--10743				
JPS5035342	B2	1975-11-15	JP75035342				
SE380007	B	1975-10-27	SE-380007				
IL40166	B	1975-08-31	IL--40166				
ES406102	A1	1975-08-01	ES-406102				
CA967303	A	1975-05-13	CA-967303				
US3840907	A	1974-10-15	US3840907				
GB1361104	A	1974-07-24	GB1361104				
AU4648672	A	1974-03-14	AU7246486				
AR197002	A1	1974-03-08	AR-197002				
AT312525	B	1974-01-10	AT-312525				
IT962624	B	1973-12-31	IT-962624				
JPS4862247	A	1973-08-30	JP48062247				
BR7206187	D0	1973-07-17	BR7206187				
ZA7205875	B	1973-05-30	ZA7205875				
FR2152135	A5	1973-04-20	FR2152135				
DE2243637	A1	1973-03-15	DE2243637				
NL7211824	A	1973-03-13	NL7211824				
BE788471	A	1973-01-02	BE-788471				
IL40166	A	1972-10-29	IL--40166				
CH526946	A	1972-08-31	CH-526946				

Abstract

(US3840907)

A compost toilet comprising at least one grate provided at an excrement collecting compartment for depositing thereon a mat intended to form a bacteria nutritive substratum, a blower located in the collecting compartment for positively circulating air, and air guide means for directing the circulated air against the mat.

Inventors

SUNDBERG H

Latest standardized assignees - inventors removed

SANITATION ETABLISSEMENTS

Family 87/100 - FAMPAT - ©Questel

Title

(CN103883094)

Environment-friendly home decoration process

Publication numbers with kind code & date

CN103883094	B	2016-02-03	CN103883094B			
CN103883094	A	2014-06-25	CN103883094			

Abstract

(CN103883094)

The invention relates to an environment-friendly home decoration process which includes: early-stage foundation construction; standard component base manufacturing; positioning force bearing points and setting out mounting positions; mounting a main structure frame; mounting ceiling decoration; mounting large combination modules; mounting wall covering fabric on a wall body, wood moulding for fixing the wall covering fabric and other decorative buds and girdling; mounting a decoration panel; cleaning. The decoration process is ecological, environmental friendly, classic in design, constant in quality, and a healthy living space suitable for modern people is built through modern design.

Inventors

CENG RONGXIAN

ZHANG YAOZHEN

LIN ZECHAO

Latest standardized assignees - inventors removed

PUTIAN CITY LITIAN ROSEWOOD ART CARVING

Family 88/100 - FAMPAT - ©Questel

Title

(CN102009560)

Fabricating process of plasticity art **building** or furniture**Publication numbers with kind code & date**[CN102009560](#) A 2011-04-13 CN102009560**Abstract**

(CN102009560)

The invention relates to a fabricating process of a plasticity art **building** or furniture, which is characterized by comprising the step of fabricating paper scraps, sawdust, grits, rice straw bits, corn straw bits; a wire gauze, a steel wire gauze, a lead wire gauze, a copper wire gauze, a fiber net; a steel sheet, an iron sheet, a copper sheet, an organic glass sheet; artificial jade, artificial boulder, artificial carnelian, artificial white marble, artificial yellow stone, artificial crystal, artificial purple black quartz, artificial cloisonne enamel, artificial rough bluestone, artificial granite, artificial rain flower pebbles; artificial annatto, artificial red sandalwood, artificial sandalwood; artificial sandalwood odor, artificial rose odor, artificial evening primrose odor, artificial gardenia odor, artificial michelia alba DC. odor, artificial sweet-scented osmanthus odor, artificial clove odor, artificial lily odor; and artificial cement, artificial ceramic, artificial red stoneware, and artificial color sand into a product complying with the design requirement. The products fabricated according to the same process are combined on a main body by using reinforcing steel bar or steel rail or joint steel column-casting, column modeling, punching, joggling, welding, riveting, inner and outer movable grooves, inner and outer decorating walls, outer decorating embedding modeling, colour modeling, thermal modeling, glue modeling and cushion modeling methods to ensure that the appearance reaches the design requirements. The products are combined and modeled into different materials, shapes, grades and colors of villas, affordable houses, markets and factories with deep carved patterns.

Inventors

LI CUIHUA

LI JUNLIN

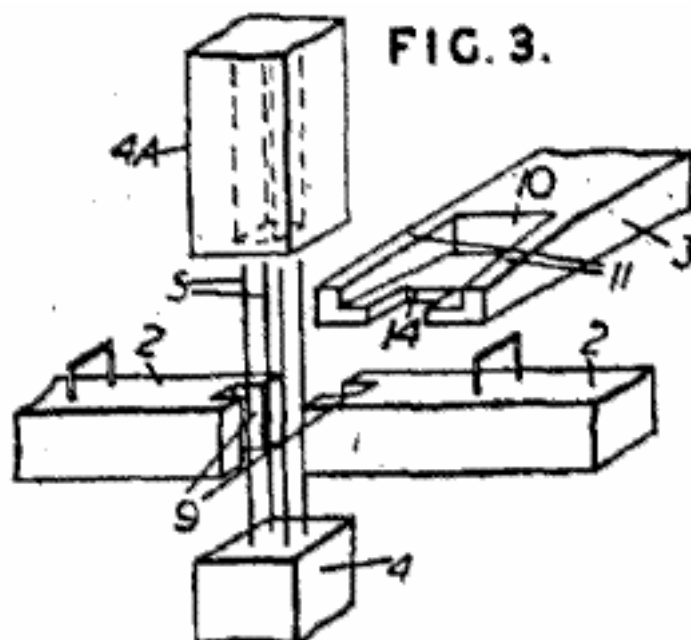
Family 89/100 - FAMPAT - ©Questel

Title

(GB1024833)

Improvements in or relating to frame constructions for multi-storey buildings

Images



Publication numbers with kind code & date

GB1024833

A 1966-04-06 GB1024833



Abstract

(GB1024833)

1,024,833. Multi-storey framed buildings. F. C. MAIN and M. C. KING. Nov. 5, 1962 [Aug. 4, 1961], No. 28340/61. Heading E1V. A frame construction for multi-storey buildings comprises columns, formed by axially aligned reinforced concrete pillars 4, 4A, Fig. 3, each having an **openwork** spigot at one end and a socket at the other end by which adjacent pillars interengage with one another grouting being introduced into each socket through a lateral feed passage 7 in the pillar, the columns being connected by reinforced concrete beams 2 resting on the upper ends of the pillars 4. The pillars 4, 4A and the beams 2 may be prestressed slots 9 (or rectangular apertures 8, Fig. 2, not shown) are formed in the ends of the beams to accommodate the spigot 5. The beams 3 spanning between the beams 2 are formed with slots 14 to accommodate the spigots 5. Hollow floor slabs, Figs. 5 and 6 (not shown), generally similar to the tie beams 3 also span between beams 2 and are laterally spaced from each other. Concrete is poured to the level 20, Fig. 7 (not shown) of the top of the beams 3 and floor slabs to connect all the elements. The socketted lower ends of the pillars 4A are engaged over the upstanding spigots with their lower faces resting at the level 20. The spigots 5 may consist of a cage grouted into an axial socket in the tops of the pillars or may consist of extensions of the metal reinforcement of the pillars.

Inventors

KING JOHN THOMSON

MAIN THOMAS BELL

Latest standardized assignees - inventors removed

FRANCES CLELAND MAIN

MARGARET COWAN KING

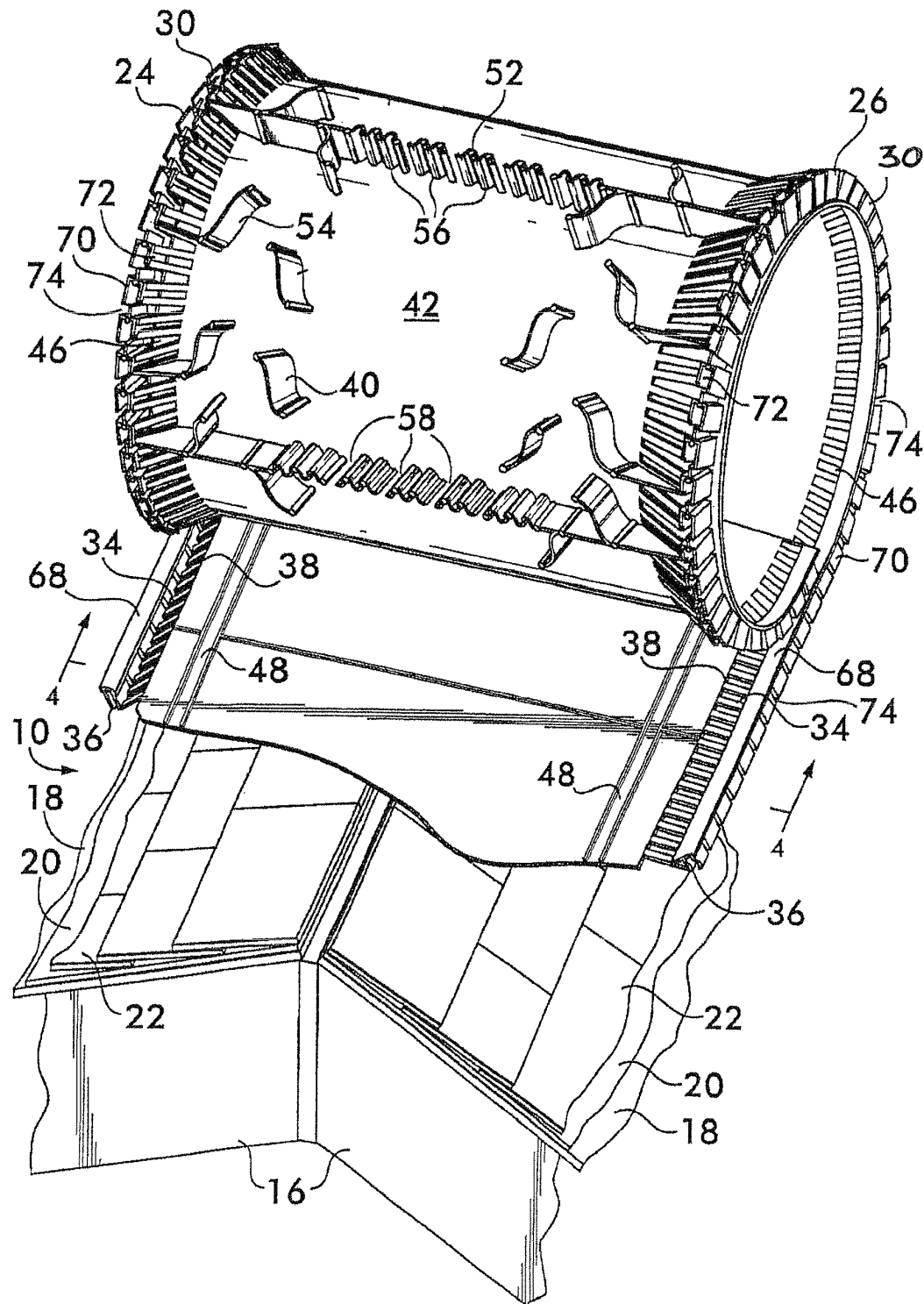
Family 90/100 - FAMPAT - ©Questel

Title

(US7814715)

Rollable roof ridge vent

Images



Publication numbers with kind code & date

CA2618467	C	2015-06-16	CA2618467
US7814715	B2	2010-10-19	US7814715
US20090025316	A1	2009-01-29	US20090025316
CA2618467	A1	2009-01-23	CA2618467



Abstract

(US20090025316)

A roof ridge vent comprises a one-piece, elongate body rollable into a spiral roll. The vent body has an elongate upper wall with a pair of longitudinally-extending side edges, an underside, and a plurality of bracing walls depending therefrom. The vent body further includes a pair of grillwork walls with ventilation openings extending downwardly and outwardly from the side edges of the upper wall. Still further, the vent body includes a pair of longitudinally-extending sidewalls that project

from the outer edges of each of the grillwork walls and that are disposed upright with respect to the upper wall. Each of the sidewalls has a continuous, longitudinally-extending top strip and a spaced apart pair of longitudinally-extending walls depending from the top strip. The pair of walls includes a series of drainage openings which provide drainage paths through the sidewalls and which permit the sidewalls to be rolled into the spiral roll.

Inventors

COULTON MICHAEL S

CARUSO GEORGE

RANDELLO NATHAN L

KERWOOD-WINSLOW TED

Latest standardized assignees - inventors removed

BENJAMIN OBDYKE

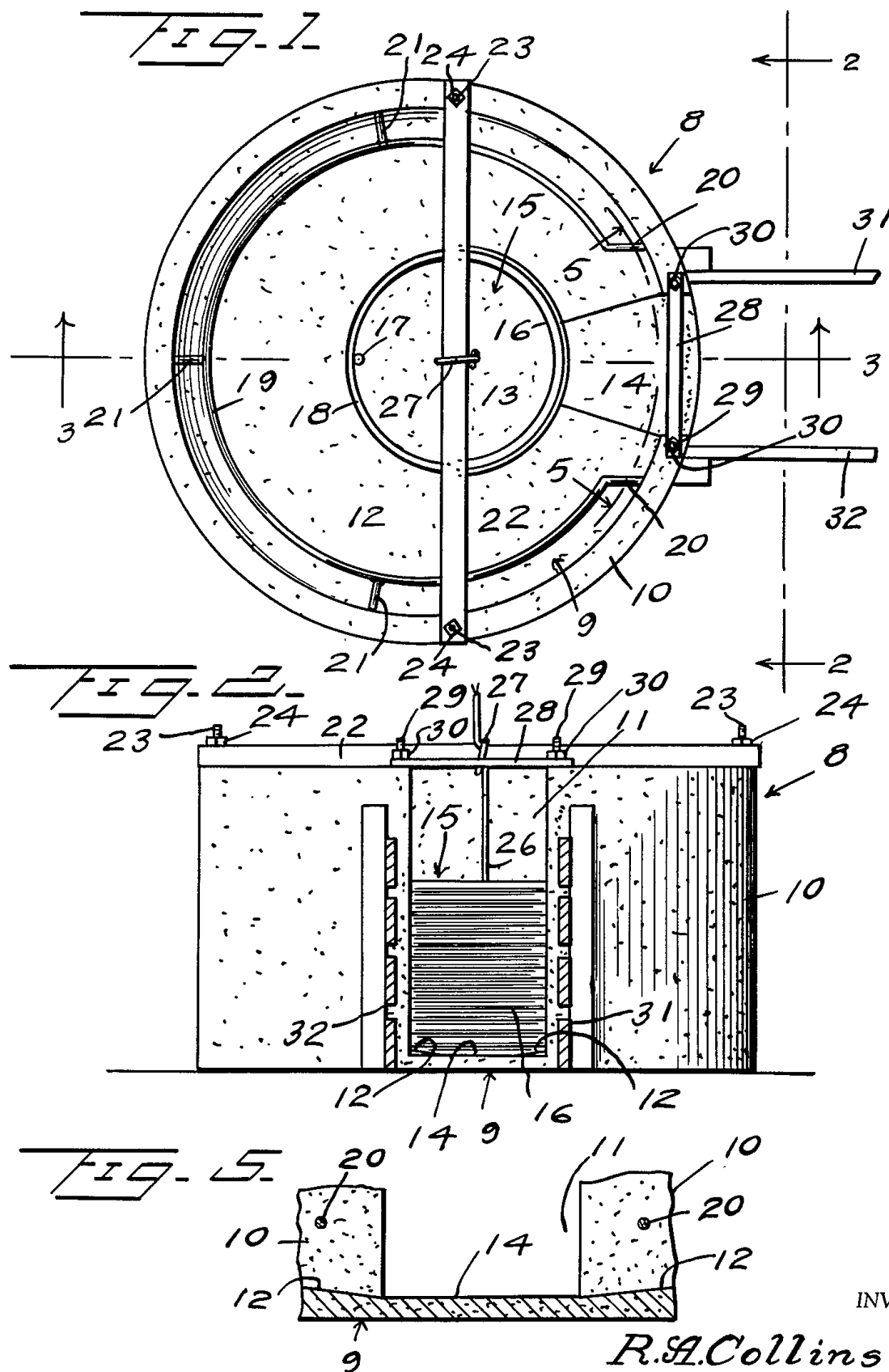
Family 91/100 - FAMPAT - ©Questel

Title

(US2740379)

Farrowing pen

Images



INVENTOR

R.A. Collins

BY *John N. Randolph*

ATTORNEY

Publication numbers with kind code & date

US2740379

A 1956-04-03 US2740379



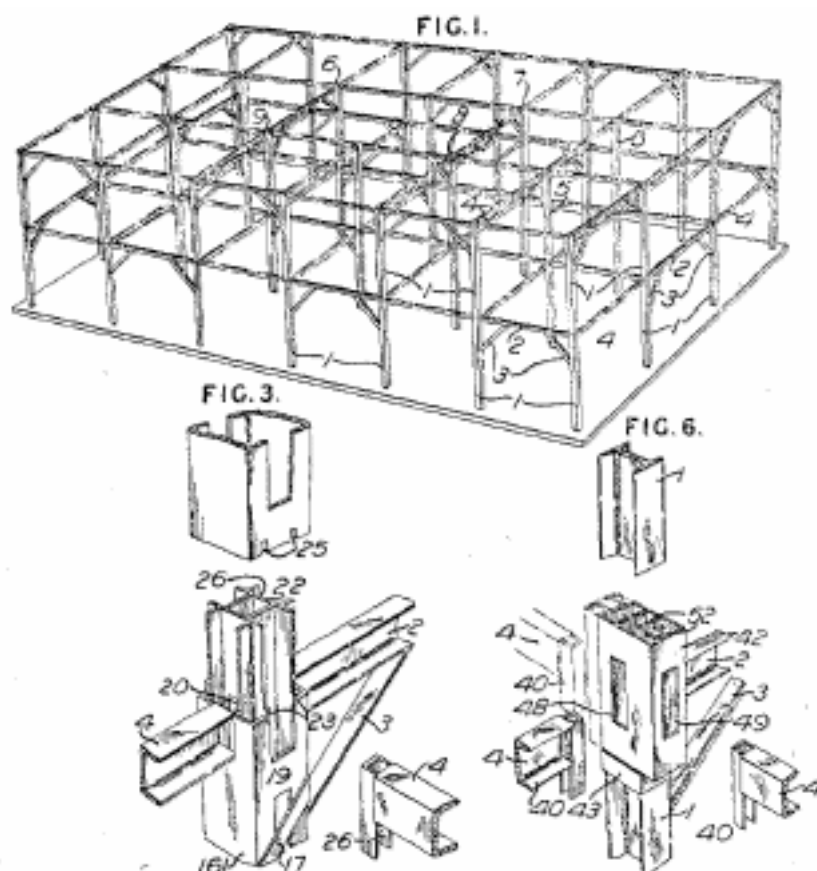
Inventors

COLLINS ROBERT A

Family 92/100 - FAMPAT - ©Questel

Title

(GB-656186)

Improvements in or relating to **building** structures**Images****Publication numbers with kind code & date**

GB656186

A 1951-08-15 GB-656186

**Abstract**

(GB656186)

656,186. Metal **building** frameworks. O'SULLIVAN, E. Jan. 29, 1948, No. 2732. [Class 20(ii)] A **building** of the type having a supporting or reinforcing framework permanently embodied in its structure is constructed by assembling a number of prefabricated frames to form the framework and thereafter constructing the walls and other parts of the **building** about the framework so as to be supported at least in part thereby. Each of the frames comprises a pair of spaced-apart uprights and at least one crossmember rigidly connecting the uprights together, at least some of the frames being arranged in the framework with their cross-members running transversely to the crossmembers of the other frames. As shown, the frames, which are the height of one storey, each consist of two uprights 1 which are rigidly connected at their upper ends by means of a cross bar 2 braced by struts 3. Uprights 1 in each stage above the lowest rest on the uprights in the next lower stage. Adjacent frames are connected by detachable members 4. As far as possible, frames in any one stage are arranged at right-angles to those immediately below them. A small number of separate uprights 5 are also used. The framework shown is for a **building** having a central well with corner uprights 6, 7, 8, 9. The frames and transverse members 4 may be connected by the methods disclosed in Specification 610,325. The uprights 1 shown in Fig. 3 are of **openwork** construction braced by diagonals 17 and are connected together by short inner members 22 having positioning lugs 23 fitting in slots 25. The uprights 1 have slots 19 to accommodate the ends of transverse members 4 whilst the inner member 22 has channels 26 in which fit positioning pins 20 welded to the ends of members 4. The uprights may be of deep channel section braced across the open side. The uprights 1 shown in Fig. 6 are of I section and are joined by embracing members 42 which rest on a sleeve 43 welded to the top of the lower upright. A slot is cut in one side of the connecting member 42 allowing it to be fitted over the end of the cross-bar 2. Further slots 48, 49 accommodate the ends of transverse members 4 whilst webs 52

welded to the inside of the connecting member provide channels to accommodate positioning pins 40 on the ends of the members 4. Two or three transverse members 4 may be connected to the uprights in this manner.

Latest standardized assignees - inventors removed

EUGENE O SULLIVAN

Family 93/100 - FAMPAT - ©Questel

Title

(FR-506835)

Extra-lightweight materials

Publication numbers with kind code & date

GB154903	A	1922-02-22	GB-154903
FR506835	A	1920-08-31	FR-506835



Inventors

FAURE-DUJARRIC LOUIS

Latest standardized assignees - inventors removed

LOUIS FAURE DUJARRIC

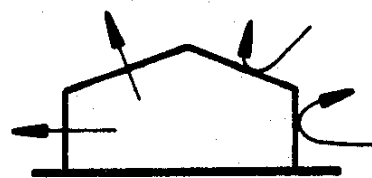
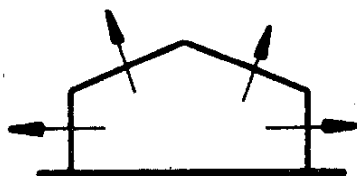
Family 94/100 - FAMPAT - ©Questel

Title

(EP--16337)

Arrangement and process for air conditioning of a **building**

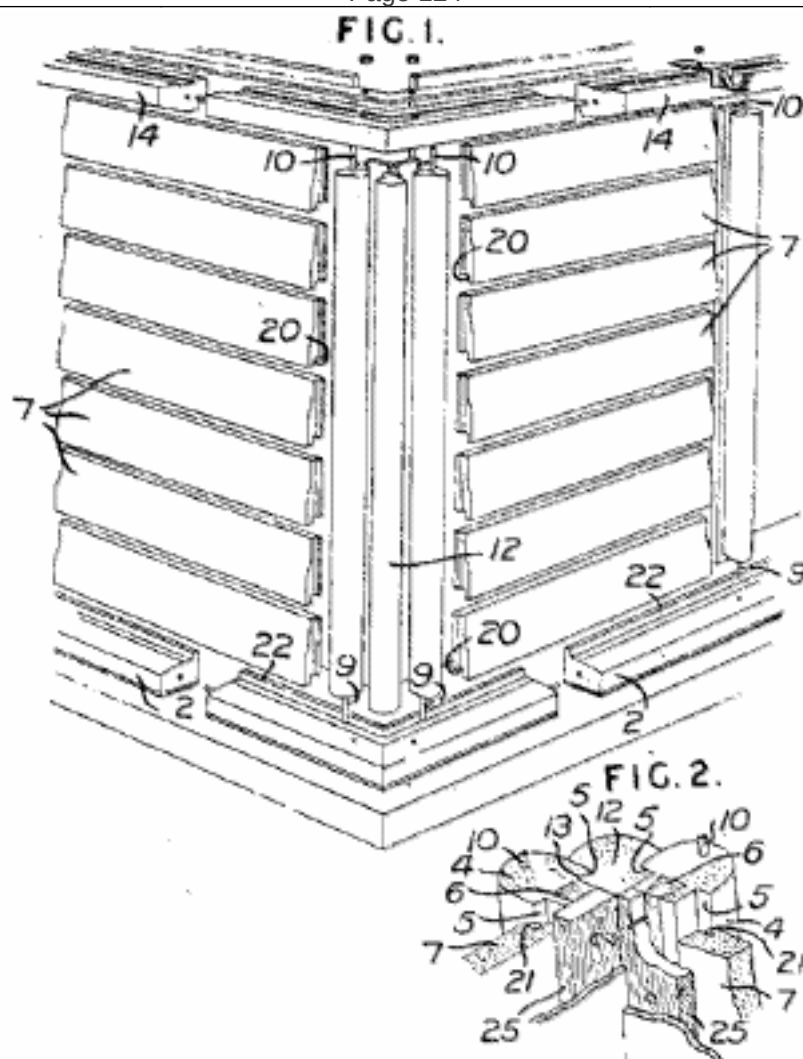
Images



Publication numbers with kind code & date

EP0016337	B1	1985-07-31	EP--16337
US4372373	A	1983-02-08	US4372373
CA1119158	A	1982-03-02	CA1119158
ZA8000840	B	1981-09-30	ZA8000840
DD149099	A5	1981-06-24	DD-149099
GR67210	B	1981-06-24	GR--67210
ES488576	A0	1981-05-16	ES-488576



**Publication numbers with kind code & date**

GB662822

A 1951-12-12 GB-662822

**Abstract**

(GB662822)

662,822. Walls. BRUNING, P. L. June 14, 1950 [July 23, 1949], No. 19425/49. Class 20(iv) In slab walling, rebates 21 along the vertical edges of the slabs 7 are received in rebates 5 extending along the inner faces of the pillars 4 and the slabs are secured between the inner faces of the pillars and wooden or other strips 25 secured to the pillars. As shown the strips 25 may be nailed to wooden fillets 6 embedded in a channel extending along the inner face of the pillar, or they may be bolted to screw-threaded sockets carried by spiders embedded in the pillars. The pillars have rods 9, 10 projecting therefrom which take into holes in the plinth 2 and header blocks 14 between which the slabs are positioned. The bottom edges of the slabs and header are rebated at 20 and the plinth has a rib 22 whereby these members engage with one another. The corner is finished off by a post 12.

Latest standardized assignees - inventors removed

PETER LEWIS BRUNING

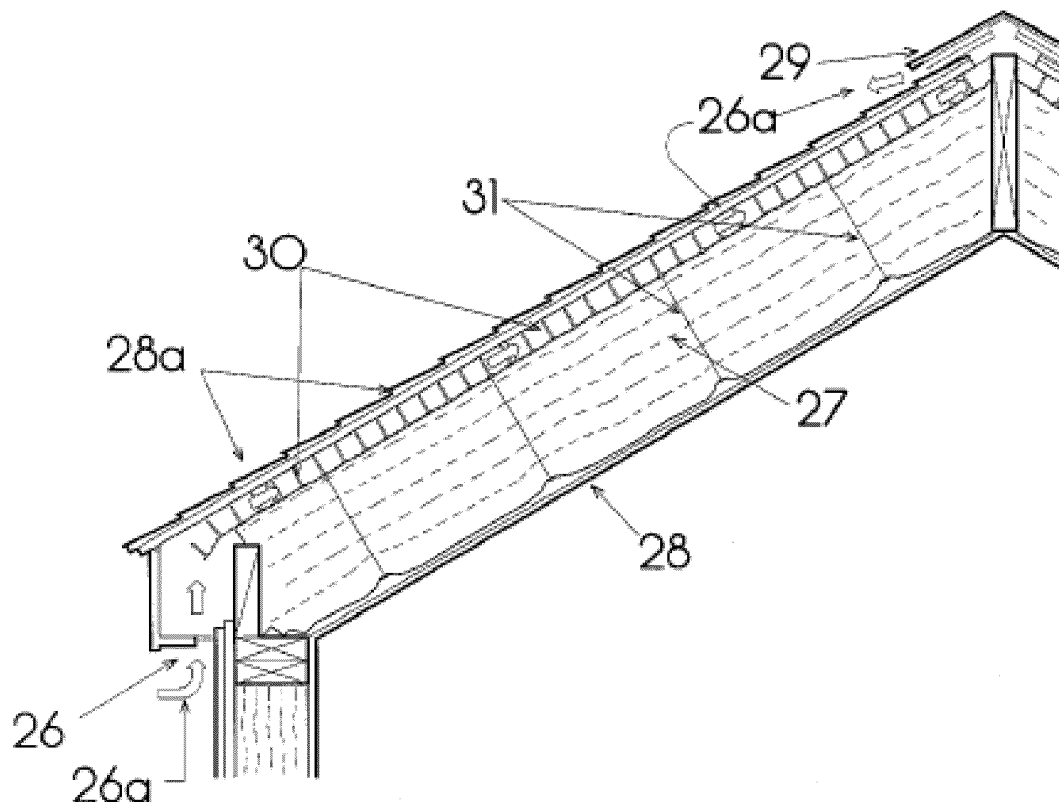
Family 96/100 - FAMPAT - ©Questel

Title

(US20160024799)

Devices and methods to provide air circulation space proximate to insulation material

Images

**Publication numbers with kind code & date**

US20160024799 A1 2016-01-28 US20160024799

**Abstract**

(US20160024799)

Insulation spacer devices, methods and related construction techniques are provided. An exemplary device may include a body having a plurality of openings defining an **openwork**, to allow the passage of air therethrough when placed in contact with insulation material. The device may further include a plurality of spacer struts and/or spacing depressions fixedly attached to the body. The struts may be configured to maintain a predetermined distance between a first side of the insulation material and a **building** surface. The body and struts act together to define and maintain a space between the first side of the insulation material and the **building** surface, for example, for ventilation. The **building** surface can be the bottom face of a roof, an insulated attic floor, **wall** sheathing or a soundproofed demising **wall**, for example. The spacer device can be capable of being transported and stored together with, or as a separate item from, the insulation material, and can also be stored in nested layers. The device can also be stored in rolled form. The **openwork** of the device can additionally or alternatively include a sheet of Entangled net filaments or other similar material.

Inventors

POLLACK ROBERT W

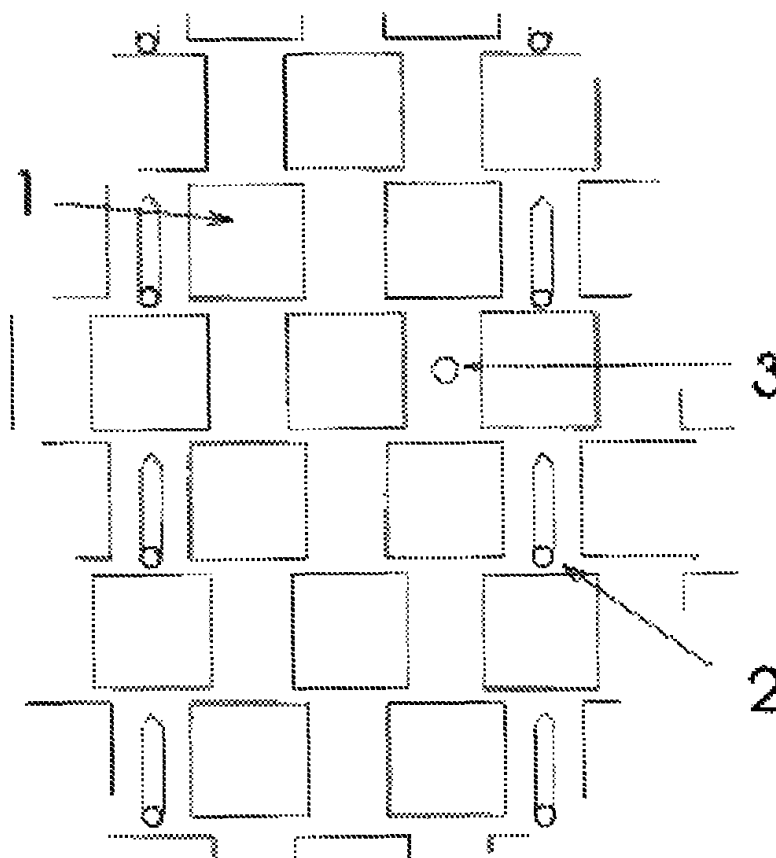
Family 97/100 - FAMPAT - ©Questel

Title

(US8763330)

Devices and methods to provide air circulation space proximate to insulation material

Images



Publication numbers with kind code & date

US8763330	B2	2014-07-01	US8763330
US20140013688	A1	2014-01-16	US20140013688



Abstract

(US20140013688)

Insulation spacer devices, methods and related construction techniques are provided. An exemplary device may include a body having a plurality of openings defining an **openwork**, to allow the passage of air therethrough when placed in contact with insulation material. The device may further include a plurality of spacer struts and/or spacing depressions fixedly attached to the body. The struts may be configured to maintain a predetermined distance between a first side of the insulation material and a **building** surface. The body and struts act together to define and maintain a space between the first side of the insulation material and the **building** surface, for example, for ventilation. The **building** surface can be the bottom face of a roof, an insulated attic floor, **wall** sheathing or a soundproofed demising **wall**, for example. The spacer device can be capable of being transported and stored together with, or as a separate item from, the insulation material, and can also be stored in nested layers. The device can also be stored in rolled form. The **openwork** of the device can additionally or alternatively include a sheet of Entangled net filaments or other similar material.

Inventors

POLLACK ROBERT W

Latest standardized assignees - inventors removed

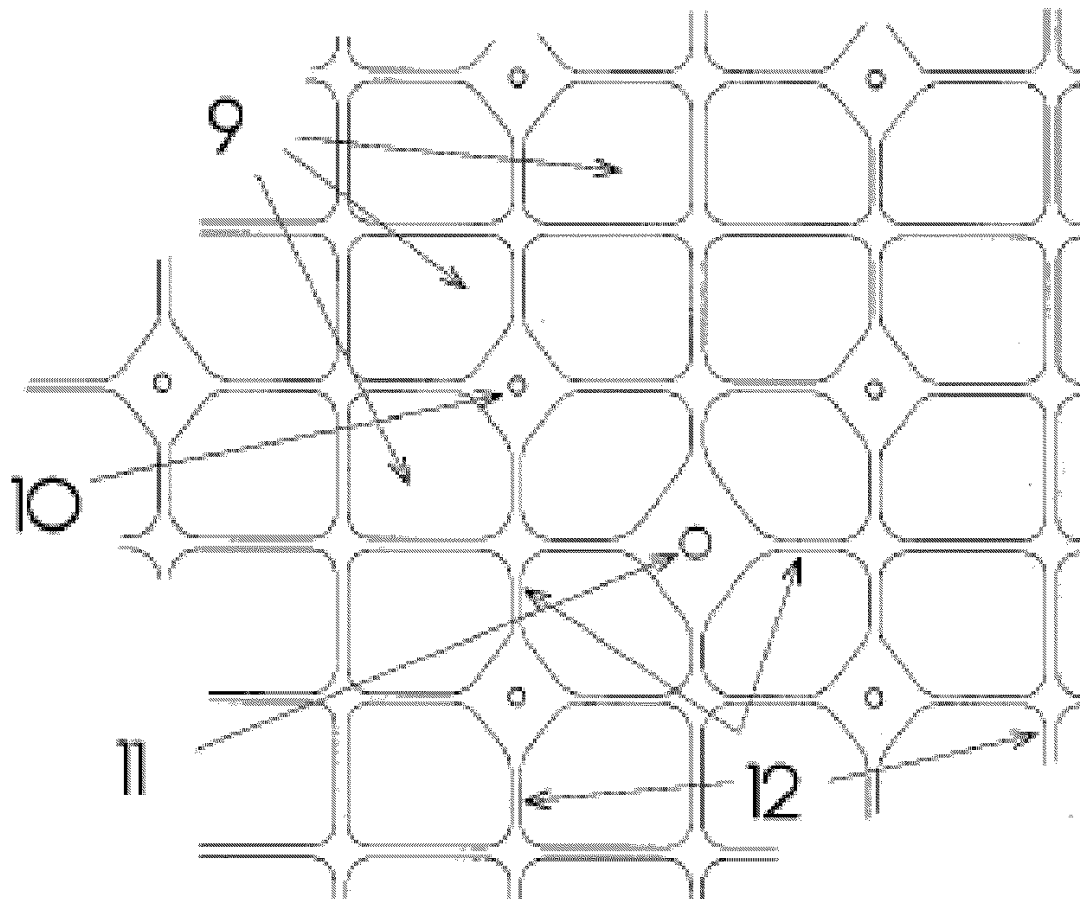
HETTRICH HANSL

Family 98/100 - FAMPAT - ©Questel

Title

(US20140311070)

Devices and methods to provide air circulation space proximate to insulation material

Images**Publication numbers with kind code & date**[US20140311070](#) A1 2014-10-23 US20140311070**Abstract**

(US20140311070)

Insulation spacer devices, methods and related construction techniques are provided. An exemplary device may include a body having a plurality of openings defining an **openwork**, to allow the passage of air therethrough when placed in contact with insulation material. The device may further include a plurality of spacer struts and/or spacing depressions fixedly attached to the body. The struts may be configured to maintain a predetermined distance between a first side of the insulation material and a **building** surface. The body and struts act together to define and maintain a space between the first side of the insulation material and the **building** surface, for example, for ventilation. The **building** surface can be the bottom face of a roof, an insulated attic floor, **wall** sheathing or a soundproofed demising **wall**, for example. The spacer device can be capable of being transported and stored together with, or as a separate item from, the insulation material, and can also be stored in nested layers. The device can also be stored in rolled form. The **openwork** of the device can additionally or alternatively include a sheet of Entangled net filaments or other similar material.

Inventors

POLLACK ROBERT W

Latest standardized assignees - inventors removed

HETTRICH HANSL

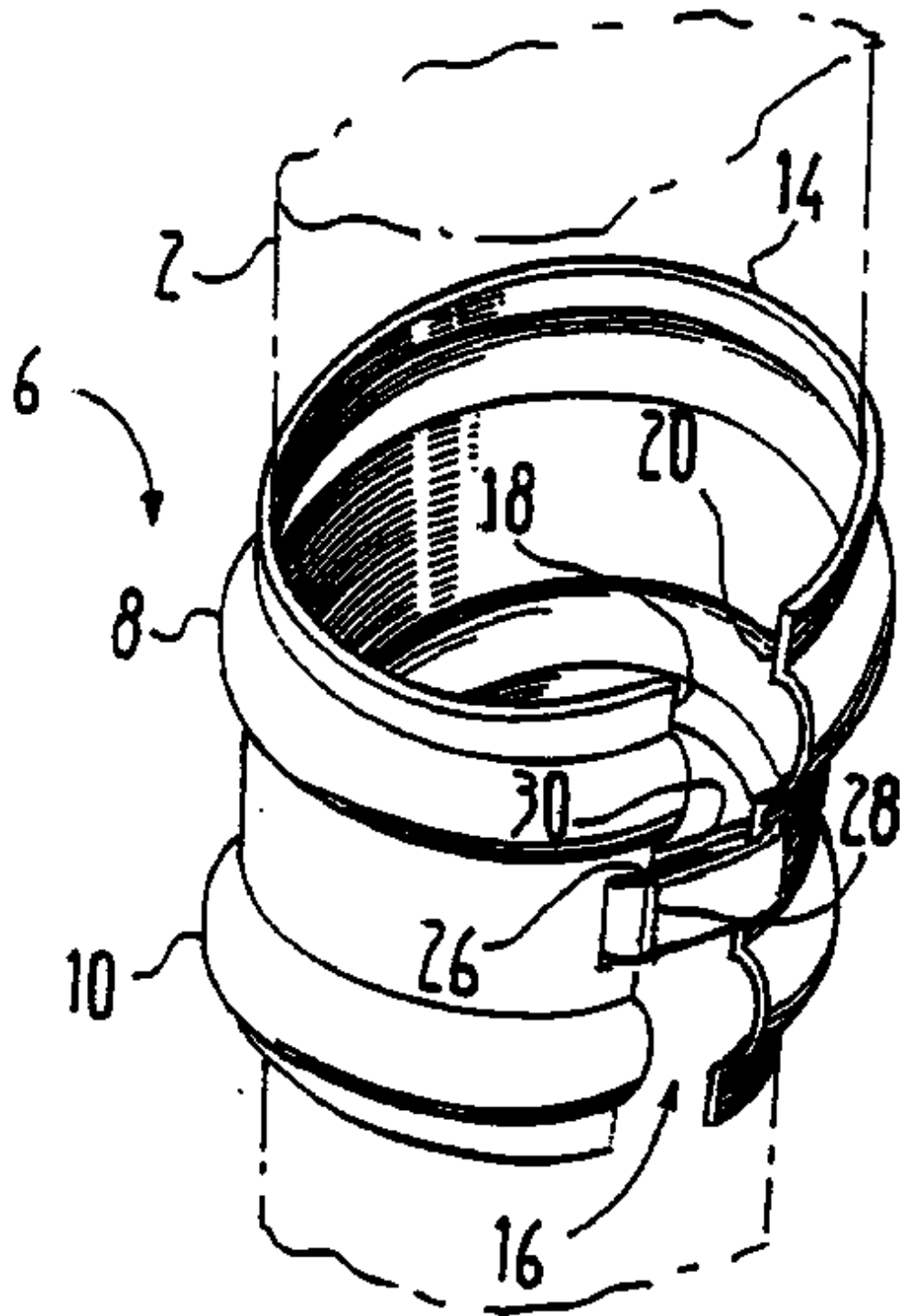
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Title

(FR2697297)

Clamping ring for rain water down pipe - so that it can be supported from **building wall**.

Images



Publication numbers with kind code & date

FR2697297	B1	1995-01-27	FR2697297
FR2697297	A1	1994-04-29	FR2697297



Abstract

(FR2697297)

The unit is made up of a split ring (6) provided with bosses top and bottom (8,10) and which is arranged to fit round the rain water down pipe (2). The ring is held between the bosses by a collar (12) which can be fixed to the wall of the building (4). The ring (6) is made up of two parts, one (14) has an opening (16) which follows the total width of this ring over a sector of at least 10 degrees. The other part (30) is in the form of a strip whose ends (26,28) engage in vertical slots (22,24) in the neighbourhood of the edges (18,20) of this opening (16) in a way that they pull the ends together of the sleeve to clamp it round the down pipe. Use/Advantage - As a clamping ring for a rain water drain pipe to enable it to be fixed to the wall of a building made up of a few parts and simple to install.

Inventors

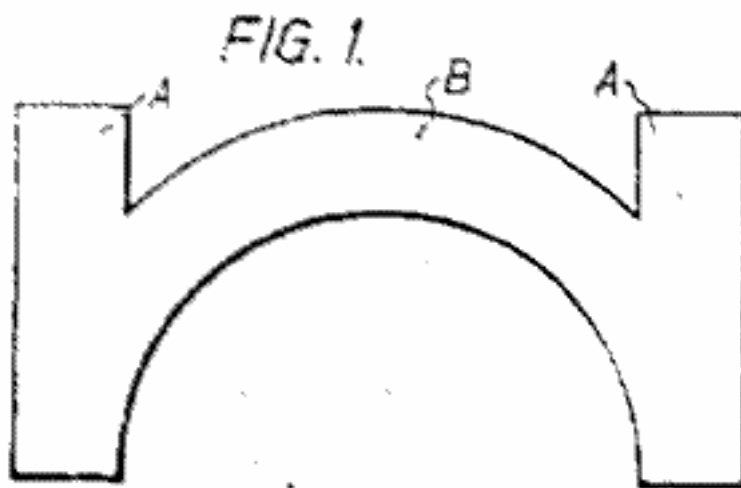
JARLIER GEORGES

Family 100/100 - FAMPAT - ©Questel

Title

(GB1079944)

Improvements in building units

Images**Publication numbers with kind code & date**[GB1079944](#) A 1967-08-16 GB1079944**Abstract**

(GB1079944)

1,079,944. **Openwork wall** blocks. MONO CONCRETE Ltd. June 28, 1965 [June 26, 1964], No. 26524/64. Heading E1B. Blocks which may be superposed in various positions either vertically or horizontally to form **openwork** walling, Figs. 2-7 (not shown), are shaped as shown, the arch B of each block having its top surface in the same plane as the upper ends of the uprights A, and its geometric centre on the line joining the lower ends of the uprights. One upright A may be thicker than the other to form an end pier, and the blocks may be used with auxiliary filler blocks of H or parallelepiped shape.

Inventors

WETTERN JOHN HERBERT

Latest standardized assignees - inventors removed

MONO CONCRETE