

Search history

Search 1: FT=(vaults* and domes* and nodal* and connectors*) (Results 3)
Search 2: FT=(vaults* and domes*) (Results 614)
Search 3: (2) AND IPC=(E04) (Results 176)

1) Family number: 32510000 (WO06000724A1)

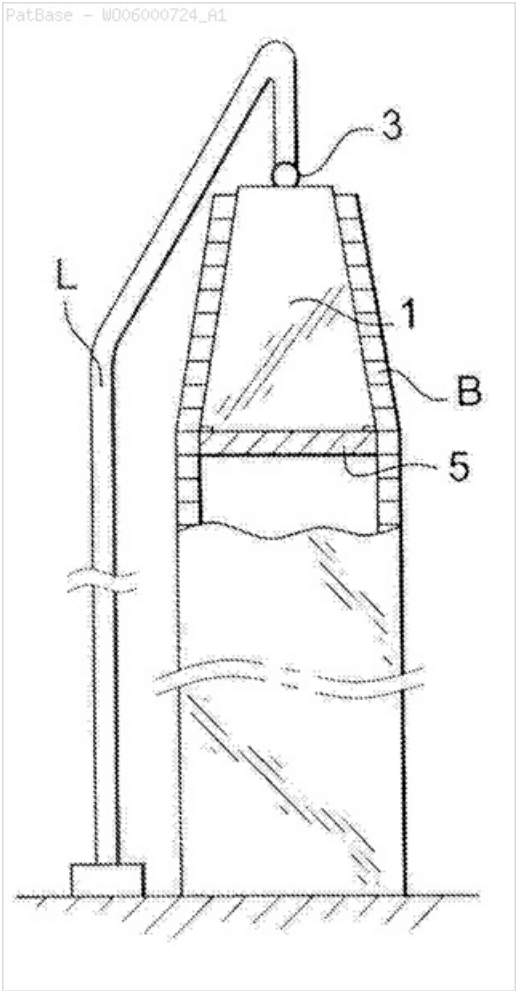
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Title: METHOD OF TEARING DOWN PART OF A BUILDING AND DEVICE THEREFOR

Abstract: The invention relates to a method of tearing down part of a building and to a device for implementing same. The inventive method is characterised in that: an inflatable structure (1) is inserted into the part (B) of the building that is to be torn down, such as to line same and form an envelope; if necessary, the structure (1) is secured; the structure (1) is subsequently inflated with the pressure being adjusted in order to balance the forces; the necessary part of the building is then torn down from the top to the bottom of the inflated structure (1); and, following the removal of the part, the structure (1) is deflated and removed.

Classifications:

International (IPC 8-9): E04G23/08 (Advanced/Invention);
E04G23/08 (Core/Invention)
International (IPC 1-7): E04G23/08
CPC: E04G23/08
European: E04G23/08



Family:

Publication number	Publication date	Application number	Application date
EP1766161 A1	20070328	EP20050776381	20050602
FR2871493 A1	20051216	FR20040051162	20040611
FR2871493 B1	20060825	FR20040051162	20040611
WO06000724 A1	20060105	WO2005FR50409	20050602

Priority:

FR20040051162 20040611 WO2005FR50409 20050602

Probable Assignee: PYRAMID SARL

Assignee(s): (std): FAURE BRUNO ; PYRAMID ; PYRAMID SARL

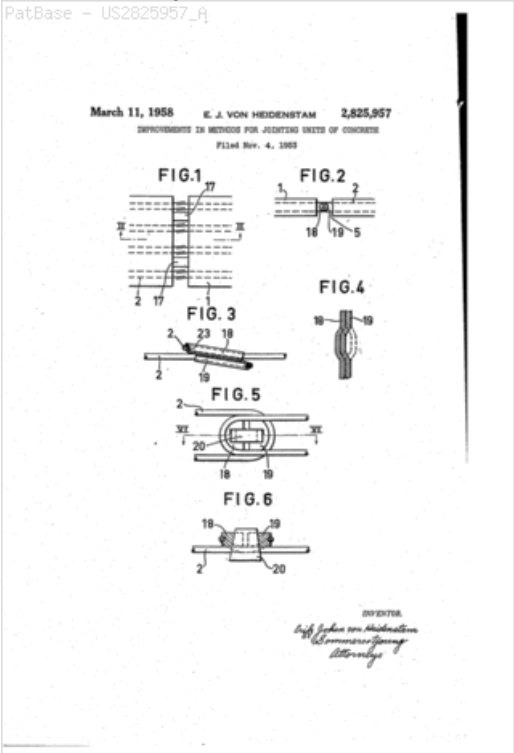
Assignee(s): PYRAMID SOC A RESPONSABILITE LIMITEE ; PYRAMID SOCIETE A RESPONSABILITE LIMITEE
Inventor(s): (std): FAURE BRUNO
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

2) Family number: 22394000 (US2825957A) © PatBase

Title: IMPROVEMENTS IN METHODS FOR JOINTING UNITS OF CONCRETE

Abstract: (Claim 1) 1. The method of jointing and interconnecting separate, independent, prefabricated elements of concrete or other cementitious material reinforced by irons permanently cast into the concrete and projecting outwards from said elements, comprising, placing the concrete elements in their final positions separated by supports inserted into the spaces between said elements, and with the projecting portions of said reinforcing irons located in the spaces between said elements, applying tensional force to the portions of said irons in said space so that said supports abut said elements and absorb the compression forces of reaction thereby applied to said elements by the tensioning of said irons, filling the space between said elements with concrete, leaving the concrete to solidify, and releasing said supports from support contact with said elements, thereby applying compressive force to the solidified concrete in said joints.

Classifications:
International (IPC 8-9): E04C2/06 (Advanced/Invention);
E04C2/06 (Core/Invention)
International (IPC 1-7): E04C2/50
CPC: E04C2/06
European: E04C2/06
US: 249/19 249/27 264/228 264/31



Family:

Publication number	Publication date	Application number	Application date
US2825957 A	19580311	US19530390222	19531104

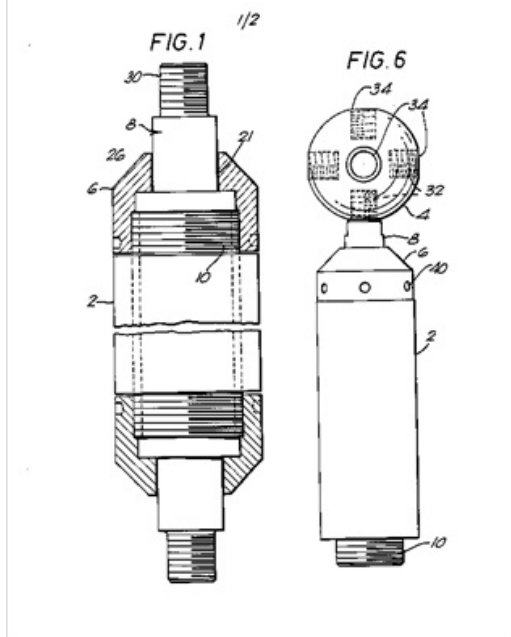
Priority:
19521105 US19530390222 19531104
Probable Assignee: VON HEIDENSTAM ERIK JOHAN
Assignee(s): (std): VON HEIDENSTAM ERIK JOHAN
Inventor(s): (std): VON HEIDENSTAM ERIK JOHAN
Inventor(s): HEIDENSTAM ERIK JOHAN VON

3) Family number: 13082009 (GB2276429A) © PatBase

Title: JOINTS FOR SPACEFRAMES

Abstract: A chord (2) is connected to the node (not shown) of a spaceframe by means of a joint assembly comprising a bolt (8) having a screwthread (30) for screwing into the node, the bolt (8) being held by its head captive but rotatable on the end of the chord (2) by a conical bush (6) screwed onto a threaded projection (10) on the chord (2).

Classifications:
International (IPC 8-9): E04B1/19 (Advanced/Invention);
E04B1/19 (Core/Invention)
International (IPC 1-7): F16B7/18
CPC: E04B1/1906 E04B2001/1924 E04B2001/1927 E04B2001/196
European: E04B1/19B1 P04B1/19C P04B1/19C1 P04B1/19D1

**Family:**

Publication number	Publication date	Application number	Application date
GB2276429 A1	19940928	GB19940005422	19940318
GB2276429 B2	19951101	GB19940005422	19940318
GB9305924 A0	19930512	GB19930005924	19930322
GB9405422 A0	19940504	GB19940005422	19940318
HK21296 A	19960209	HK19960000212	19960201

Priority:

GB19930005924 19930322

Probable Assignee: NAXCO IND**Assignee(s):** (std): NAXCO IND ; NAXCO IND PTE LTD ; NAXCO IND S PTE LTD**Assignee(s):** NAXCO INDUSTRIES ; NAXCO INDUSTRIES S PTE LTD**Inventor(s):** (std): SIT KIM TECK**Inventor(s):** KIM TECK SIT**4) Family number: 70781014 (EP3361132A1)**

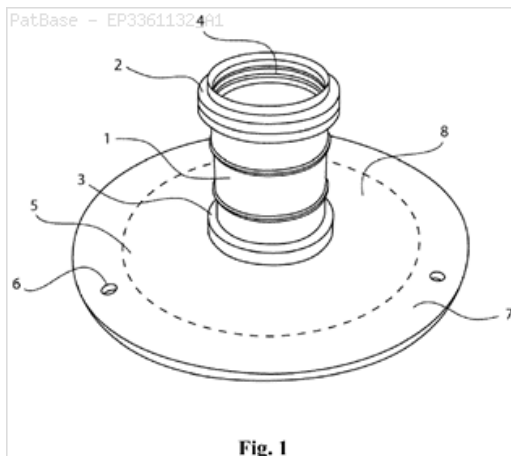
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Title: PENETRATION PIECE TO BRING HOUSE DRAINAGE PIPE THROUGH THE FLOOR VAULT ELEMENT DE PENETRATION POUR PASSER UN TUYAU DE VIDANGE DOMESTIQUE A TRAVERS LA VOUTE DE P

Abstract: Penetration piece and method for installation of drainages through vaults. The penetration piece has a pipe with a first end capable of coupling to a drainage pipe of a plumbing fixture or appliances located on a first side of the vault, and a second, opposite end capable of coupling to draining piping located on a second, opposite side of the vault. The second end of the pipe is provided with a planar flange. The penetration piece can be attached to the vault for positioning the pipe inside the opening while forming a spacing between the outer surface of the pipe and the facing inner surfaces of the opening. The central portion of the flange forms a casting support surface to allow for casting of a hardening material in the space defined by the outer surface of the pipe, the inner surfaces of the opening and the casting support surface. Using the penetration piece, time consumption of installation work is reduced, and the pipe passing through the vault is firmly kept in place during casting.

Classifications:**International (IPC 8-9):** E03C1/12 E03C1/122 E03F5/04 E04B5/48

F16L5/00 F16L5/02 F16L5/12 (Advanced/Invention)

CPC: F16L5/00 E04B5/48 F16L5/02 F16L5/12 E03C1/122**Family:**

Publication number	Publication date	Application number	Application date
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EP3361132 A1	20180815	EP20180156360	20180212
FI12380 U1	20190515	FI20180004191U	20180212

Priority:

FI20170005116 20170210 EP20180156360 20180212

Probable Assignee: UPONOR INFRA OY

Assignee(s): (std): UPONOR INFRA OY

Inventor(s): (std): NILSSON BO

Agent(s): SEPPO LAINE OY

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

5) Family number: 478018 (US3414153A)

© PatBase

Title: Multicellular containers or enclosures

Abstract: ABSTRACT OF THE DISCLOSURE

Multicellular structures are provided for use as liquid and/or gas storage containers, internal and external pressure withstanding vessels, and the like which are aplexic; that is, non-deformable in the sense that any small flexing loc or movement of the walls thereof from pressure forces is equally distributed throughout each small individual portion of the entire wall structure and supporting internal structures so that the entire vessel or container retains substantially the same outline as it was designed with no localized deformations resulting from the said pressure forces. This is achieved by constructing the container or vessel structures with at least the outer walls thereof of spherical and/or cylindrical surfaces or substantially spherical and/or cylindrical surfaces and with the internal supporting structure following the same lines of curvature as the wall structures and/or the lines of intersection thereof so that the entire internal space of the vessel is occupied or covered without overlap by the placement of said internal structures by the exact method of following the outline of layers of polyhedrons inscribed in imaginary spheres drawn between two normal sections of said structure or vessel in which a perfect carrelage of polygons can be drawn which are perfectly inscribable in a circle with said polygons in said sections forming faces of said polyhedrons on opposite sides thereof at said sections and with the free faces thereof being curved surfaces of substantially constant mean curvature. In addition, said internal structures may be either generally solid partitions forming said polyhedrons or strut-like structures outlining said polyhedrons with the design of the sections of the struts being determined by the partitions they replace so as to maintain an equilibrium throughout the entire structure with respect to the ability of each small portion thereof to withstand equally the same degree of said pressure

Classifications:

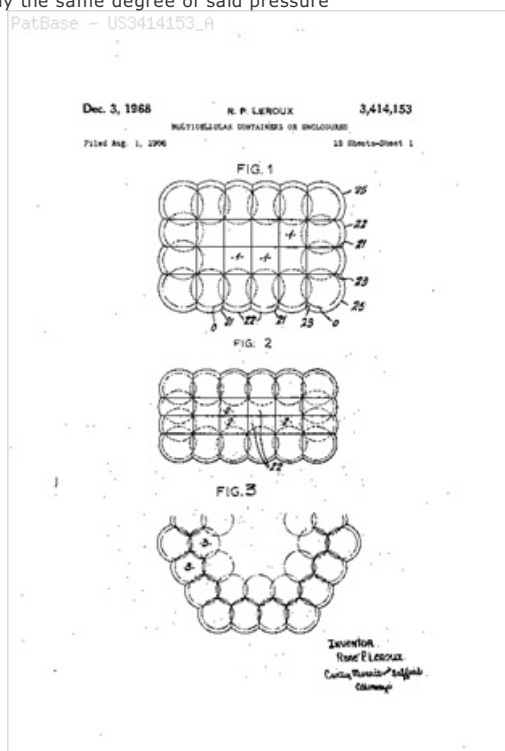
International (ipc 8-9): B65D88/02 F17C1/00 (Advanced/Invention); B65D88/00 F17C1/00 (Core/Invention)

International (ipc 1-7): B01J3/04 B65D8/04 B65D88/02 E04H7/02 F17C1/02 F17C3/02 F28F9/00

CPC: B65D88/02 F17C1/002 F17C2201/0152 F17C2201/0166 F17C2201/0171 F17C2201/052 F17C2201/054 F17C2203/013 F17C2203/03 F17C2203/0636 F17C2203/0639 F17C2203/0646 F17C2203/0678 F17C2205/018 F17C2205/0379 F17C2209/221 F17C2221/018 F17C2221/033 F17C2223/0153 F17C2260/011 F17C2260/012 F17C2260/018 F17C2270/0105 F17C2270/0131 F17C2270/0134 F17C2270/0168 F17C2270/0189 F17C2270/0194 F17C2270/0197

European: B65D88/02 F17C1/00B R17C201/01G1 R17C201/01G5 R17C201/01G7 R17C201/05A R17C201/05B R17C203/01A3 R17C203/03 R17C203/06B1 R17C203/06B1A R17C203/06B1B R17C205/01N5 R17C205/03L12 R17C209/22A R17C221/01K R17C221/03B1 R17C223/01B1 R17C260/01A R17C260/01B R17C260/01J R17C270/01A1 R17C270/01A4 R17C270/01B R17C270/01D1 R17C270/01E1 R17C270/01E4 R17C270/01E5

US: 220/1 220/506 220/507 220/553 220/565



Family:

Publication number	Publication date	Application number	Application date
DE1684802 A1	19711014	DE19661684802	19660713
FR1463859 A	19660722	FR19650024585	19650713
FR90619 E	19680119	FR19660060146	19660504
GB1157522 A	19690709	GB19660031442	19660713
US3414153 A	19681203	US19660569287	19660801

Priority:

FR19650024585 19650713 FR19660060146 19660504

Probable Assignee: DUBIGEON NORMANDIE SA

Assignee(s): (std): DUBIGEON NORMANDIE SA ; LEROUX RENE ; RENE P LEROUX

Assignee(s): SOCIETE ANONYME DUBIGEON NORMANDIE ; RENE LEROUX ; ANONYME DUBIGEON NORMANDIE SOC

Inventor(s): (std): LEROUX RENE ; LEROUX RENE P

Inventor(s): RENE LEROUX

Title: SYSTEMS AND METHODS FOR PROVIDING ROUNDED VAULT FORMING BUILDINGS

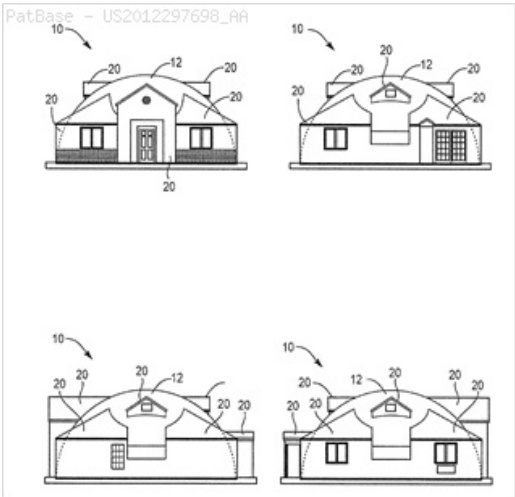
Abstract: A monolithic dome building having a plurality of integrated dome hip structures, and methods for making the same.

Classifications:

International (IPC 8-9): E04B1/00 E04B1/32 E04B7/08 E04B7/10 E04C5/16 E04G1/15 E04G1/36 E04G11/04 E04G21/00 E04G23/00 E04H1/00 E04H1/02 (Advanced/Invention)

CPC: E04B1/32 E04B1/166 E04B1/169 E04B2001/3264 E04B2001/34876 E04H1/02 E04B7/08 E04C5/168 E04G11/04 E04H1/005

US: 182/179.1 52/2.15 52/236.1 52/741.3 52/745.07 52/79.4 52/79.9 52/80.1 52/81.6



Family:

Publication number	Publication date	Application number	Application date
US2012297698 AA	20121129	US20110117090	20110526
US2012311941 AA	20121213	US20120590170	20120820
US8973336 BB	20150310	US20120590170	20120820

Priority:

US20110117090 20110526 US20110525113P 20110818 US20120590170 20120820

Probable Assignee: SOUTHERN UTAH UNIV

Assignee(s): (std): EDWARDS MATTHEW ; KRAFT RONALD K ; SOUTHERN UTAH UNIV

Inventor(s): (std): EDWARDS MATTHEW ; KRAFT RONALD K

Agent(s): KIRTON MCCONKIE; DAVID B; BRYANT J

Title: SLAB COVERED THREE DIMENSIONAL LATTICE STRUCTURE - HAS EXTRA SLAB CORNER SOCKET PROTRUSION FITTING HOLE IN PERFORATED CONNECTING PLATE

Abstract: Panels have corner areas mounted on a flat face on nodal pieces, and are fastened by a screw passing through a corner channel into a threaded hole in this face, the channel being a sleeve, protruding to fit in a non-threaded section of the hole, in a three-dimensional lattice structure, as in 2559750. Here the sleeve (69) has another open section (71) at its other end, at the top of the panel (13). The end section fits into one of a number of holes (73) in a connecting plate (72), which has the same number of holes as the number of sleeves in panels being mounted on a nodal piece (14a). The system produces a form-locked screw connection with nodal pieces in the upper chord.

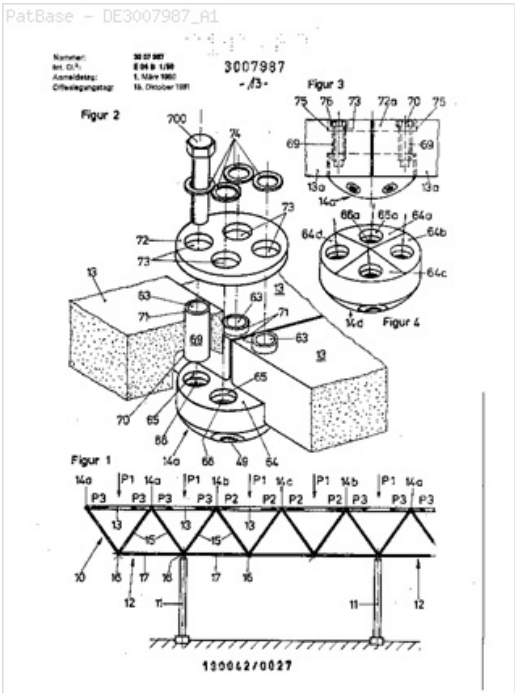
Classifications:

International (IPC 8-9): E04B1/19 (Advanced/Invention); E04B1/19 (Core/Invention)

International (IPC 1-7): E04B1/56 E04B1/58

CPC: E04B1/19 E04B2001/1993

European: E04B1/19 P04B1/19K



Family:

Publication number	Publication date	Application number	Application date
DE3007987 A1	19811015	DE19803007987	19800301
DE3007987 C2	19811224	DE19803007987	19800301

Priority:

DE19752559750 19750614 DE19752559750 19750614 DE19803007987 19800301

Probable Assignee: MENGERINGHAUSEN MAX

Assignee(s): (std): MENGERINGHAUSEN MAX

Assignee(s): MENGERINGHAUSEN MAX DIPL ING DR ING ; MENGERINGHAUSEN MAX DIPL ING DR ING 8700 WUERZBURG DE

Inventor(s): (std): NICHTNENNUNG ANTRAG AUF

Inventor(s): VERZICHT DES ERFINDERS AUF NENNUNG

8) Family number: 60684033 (DE102014006096B4)

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Title: VERFAHREN ZUM HERSTELLEN EINER MEHRDIMENSIONAL STRUKTURIERTEN MATERIALBAHN FUER DUENNWANDIGE EBENE WANDELEMENTE UND VERWENDUNG DERSELBEN

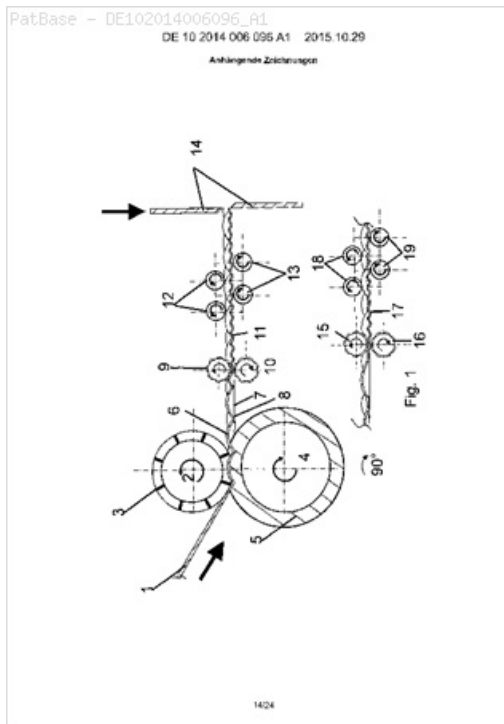
Abstract: Source: DE102014006096B4 [DE] Verfahren zum Herstellen einer mehrdimensional strukturierten Materialbahn fuer duennwandige, ebene Wandelemente mit den Schritten: – Eine Materialbahn wird in einem primären Strukturierungsschritt mit regelmaessig angeordneten mehrdimensionalen Strukturen, mit Falten bzw. Wuelsten und Mulden bzw. Kalotten durch biegende Umformungen versehen, wobei die Materialbahn in Strukturierungsrichtung gerafft wird und auch quer zur Strukturierungsrichtung der Materialbahn im Bereich der seitlichen Raender der Materialbahn gerafft wird und so eine flache Schuessel in der Materialbahn gebildet wird. – Die dreidimensional strukturierte Materialbahn wird abgelaengt und im Bereich der Raender der Materialbahn werden Feinstrukturen, vorzugsweise durch biegende Umformung gebildet, wobei die Raffungen der Feinstrukturen im Wesentlichen den Raffungen der dreidimensional strukturierten Materialbahn angepasst werden. – Die Raender der Materialbahn werden durch Werkzeugeingriffe versteift und gleichzeitig so gestreckt, dass sich infolge der gebildeten Laengendifferenzen die Materialbahn verwindet und dabei die versteiften, gelaengten Raender der Materialbahn in einer raemlichen Flaechen angeordnet werden. – Die Raender der Materialbahn werden gegen eine ebene Auflage, wie einen starren Rahmen, gedruickt, wobei die Raender der Materialbahn in eine gemeinsame ebene Flaechen gebracht werden, dadurch eine etwas groessere Projektionsflaechen zur ebenen Auflageflaechen bilden, wodurch der mittlere Bereich der Materialbahn etwas gestreckt und gerade gebogen wird.

Classifications:

International (IPC 8-9): B21D13/04 B21D47/00 E04C2/32

F16S1/06 (Advanced/Invention)

CPC: B21D47/00 B21D13/00 B21D13/04 B29C53/265 B29C53/285



Family:

Publication number	Publication date	Application number	Application date
DE102014006096 A1	20151029	DE201410006096	20140429
DE102014006096 B4	20180125	DE201410006096	20140429

Priority:

DE201410006096 20140429

Probable Assignee: MIRTSCH GMBH DR

Assignee(s): (std): DR MIRTSCH GMBH ; MIRTSCH GMBH DR

Inventor(s): (std): MIRTSCH FRANK

9) Family number: 2717037 (SE461537B)

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Title: LOAD-BEARING STRUCTURAL ELEMENT WHICH CAN BE ROLLED UP, AND A METHOD FOR PRODUCING AND USING SUCH A STRUCTURAL ELEMENT

Abstract: The invention concerns a load-bearing structural element which can be rolled up, a method for producing it and also its use as a support element in constructional works that can be assembled and dismantled. The structural element consists of a strip-shaped, double- curved shell of a thin-walled elastic material. The shell is deformable essentially under isometry between a state 1a in which it is rolled up in the one direction of curvature of the shell and a state 1b in which it is rolled out into a double-curved arch shape able to bear loads, where a further straightening of the arch under isometry is not possible and a loadable state is obtained. The structural element can be produced from sheet metal by means of rolling plane or single-curved sheet metal strips, the strip being given a longitudinal extension differentiated in the crosswise direction, which gives rise to the double-curved shape. The structural element is especially suited for use as a support element in constructional works that can be assembled and dismantled, such as protective roofs, lightweight bridges, tents, etc., and can thus be included as an integrated part of a structural element that can be rolled up or constructional work.

Classifications:

International (IPC 8-9): E04B1/32 E04C3/40 (Advanced/Invention);

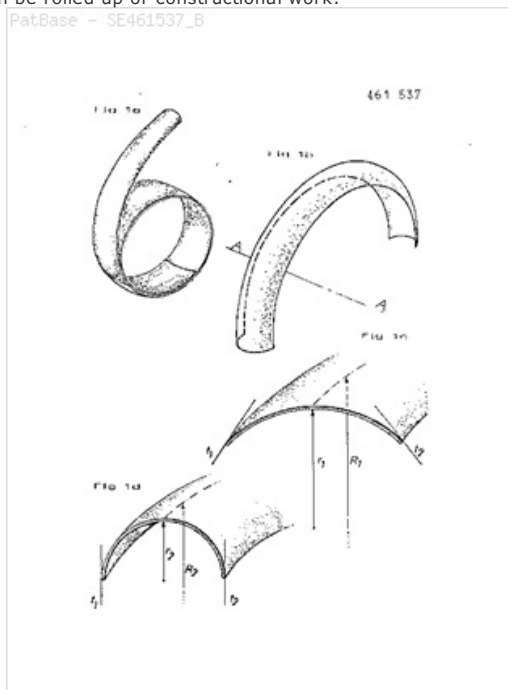
E04B1/32 E04C3/38 (Core/Invention)

International (IPC 1-7): E04B1/32 E04C3/40

CPC: E04C3/40 E04B1/32

European: E04B1/32 E04C3/40

PatBase - SE461537_B



Family:

Publication number	Publication date	Application number	Application date
SE461537 B	19900226	SE19870003942	19871012
SE461537 C	19900621	SE19870003942	19871012
SE8703942 A	19890413	SE19870003942D	19871012
SE8703942 A0	19871012	SE19870003942	19871012
SE8703942 L	19890413	SE19870003942	19871012

Priority:

SE19870003942 19871012

Probable Assignee: STURE OLOF LUNDIN

Assignee(s): (std): LUNDIN STURE OLOF ; STURE OLOF LUNDIN

Inventor(s): (std): LUNDIN STURE OLOF

Inventor(s): STURE OLOF LUNDIN

10) Family number: 2366042 (US4241746A)

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Title: COLLAPSIBLE BUILDING STRUCTURE

Abstract: A collapsible building structure is disclosed which includes a pair of stressed membranes which are fixedly held in spaced relation when the structure is in its erected form. Lines of tension are formed in the membrane when the structure is erected which generally define rectilinear grid patterns. A plurality of node members are arranged on each of the two membranes such that each node member is separated by intersecting lines of tension. Paired nodes on each of the membranes are connected by a tensile member. Each of the nodes on one membrane are connected by a compression strut to the nodes on the other membrane which are most closely adjacent to its paired node on the other membrane. The building structure is selectively collapsed and re-erected by selectively tensing or relaxing the tension members. Building structures may also be formed utilizing flexible tension members connecting the node members which replace the stretched membranes.

Classifications:

International (IPC 8-9): E04B1/32 E04B1/344

E04H15/50 (Advanced/Invention);

E04B1/19 (Advanced/Non-invention);

E04B1/32 E04B1/344 E04H15/34 (Core/Invention);

E04B1/19 (Core/Non-invention)

International (IPC 1-7): E04B1/347

CPC: Y10S135/908 E04B1/3441 E04B1/1909 E04B1/32

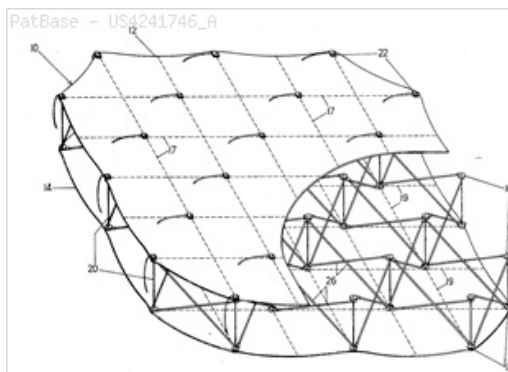
E04B2001/1996 E04B2001/3247 E04B2001/3252 E04H15/50

European: E04B1/32 E04B1/344B E04H15/50 P04B1/19B2

P04B1/19T P04B1/32M1B P04B1/32M2

US: 135/147 135/4.0R 135/4R 135/908 52/222 52/645 52/80.1

PatBase - US4241746_A



Family:

Publication number	Publication date	Application number	Application date
CA1171756 A1	19840731	CA19800350023	19800416
US4241746 A	19801230	US19790035222	19790502

Priority:

US19790035222 19790502 CA19800350023 19800416

Probable Assignee: ROTHE BRUCE

Assignee(s): (std): ROTHE BRUCE

Assignee(s): ROTHE BRUCE 2046 RUTLEDGE ST ; ROTHE BRUCE 2046 RUTLEDGE ST MADISON WISCONSIN 53704

Inventor(s): (std): ROTHE BRUCE ; ROTHE BRUCE RUTLEDGE ST MADISO

Inventor(s): ROTHE BRUCE 2046 RUTLEDGE ST MADISON WISCONSIN 537 ; ROTHE BRUCE 2046 RUTLEDGE ST

Agent(s): BORDEN LADNER GERVAIS LLP

11) Family number: 1549043 (US4288952A)

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Title: Burial vaults

Abstract: A burial vault is provided, the component parts of which are preferably made of molded plastic resinous material, such as polyethylene, and which comprises a composite base including as components parts thereof, (1) a generally flat, rectangular-shaped supporting platform; (2) an inner upright wall structure including a generally rectangular-shaped frame mounted on the said supporting platform member and having an open top and having a lower end portion which is mechanically fastened and hermetically sealed to the supporting platform and having upstanding side walls and end walls which are provided on their outer surfaces with laterally spaced generally vertically extending parallel reinforcing ribs; and (3) a generally flat rectangular-shaped top closure plate or lid member which is arranged over and closes the open top of the frame member of the inner upright wall structure and is hermetically sealed thereto. The burial vault includes a dome-shaped outer cover member having side walls and end walls, a closed top wall and an open bottom wall; the dome-shaped outer cover member being arranged over the top closure plate or lid member and being arranged over and enclosing the frame of the inner upright wall structure and being mechanically fastened and hermetically sealed to the supporting platform member.

Classifications:

International (IPC 8-9): A61G17/00 E04H13/00 (Advanced/Invention); E04H13/00 (Core/Invention)

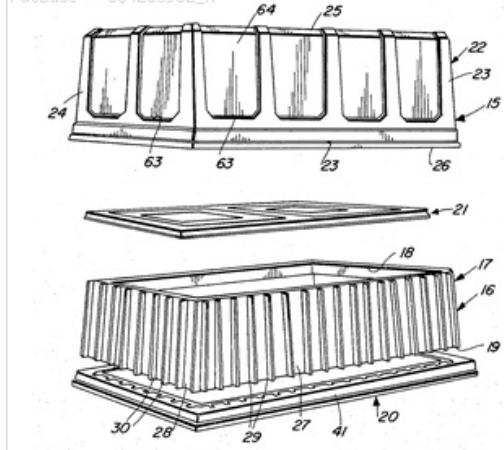
International (IPC 1-7): A61G17/00 E04H13/00

CPC: E04H13/00

European: E04H13/00

US: 27/35 52/138 52/140

PatBase - US4288952_R

**Family:**

Publication number	Publication date	Application number	Application date
CA1117284 A1	19820202	CA19800348223	19800320
US4288952 A	19810915	US19790097716	19791127

Priority:

US19790097716 19791127 CA19800348223 19800320

Probable Assignee: WILBERT INC

Assignee(s): (std): WILBERT INC

Assignee(s): WORK GERALD L

Inventor(s): (std): WORK GERALD L

Agent(s): HEWITT NEVILLE S

12) Family number: 68878048 (US2018071949A)

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Title: METHOD OF REINFORCED CEMENTITIOUS CONSTRUCTION BY HIGH SPEED EXTRUSION PRINTING AND APPARATUS FOR USING SAME

Abstract: The present invention relates to methods and apparatuses for an automated reinforced concrete construction system for onsite slip-form molding and casting a variety of cementitious mixes in a cast in place leave in place externally moldable flexible reinforced containment sleeve providing a wide variety of interchangeable full-scale molding configurations simultaneously optimizing a wide variety of cementitious mix curing characteristics, further having optional internal reinforcement net(s), for layer wise interlocking additive printed brick deposition providing improved slip-form mold casting of a wide variety of reinforced concrete structures; the present invention further includes a variety of operating platforms suitable for on and offsite construction as disclosed herein.

Classifications:

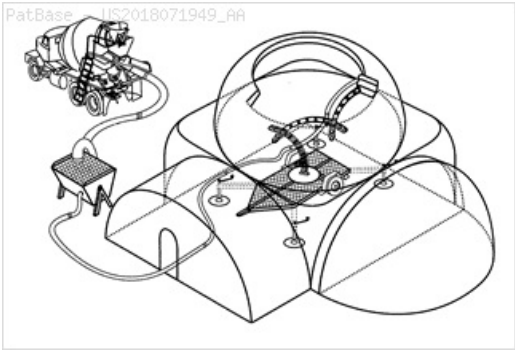
International (IPC 8-9): B28B B28B1/00 B28B17/00 B33Y10/00 B33Y30/00 B33Y50/02 E01C19/48 E04B1/16

E04B1/35 (Advanced/Invention);

B28B (Subclass/Invention)

International (IPC 1-7): B28B1/00 E01C19/48

CPC: B28B1/001 E04B1/16 E04B1/3505 B33Y10/00 E04B1/32 B33Y50/02 B28B17/0081 E04B1/166 E04B2103/02 B33Y30/00 E04G21/04
US: 264/34



Family:

Publication number	Publication date	Application number	Application date
AU2017326927 AA	20190321	AU20170326927	20170913
BR112019004893 A2	20190611	BR20191104893	20170913
CA3036127 AA	20190305	CA20173036127	20170913
ID201903703 A	20190524	ID2019PID02230	20170913
IL265324 A0	20190530	IL20170265324	20170913
IL265324 A0	20190530	IL20190265324	20190312
IN201917008574 A	20190531	IN201917008574	20190305
KR20190057078 A	20190527	KR20197010158	20170913
SG11201901805T A1	20190429	SG20191101805	20170913
US2018071949 AA	20180315	US20170732072	20170913
WO18052469 A2	20180322	WO2017US00055	20170913
WO18052469 A3	20180426	WO2017US00055	20170913

Priority:

US20160495514P 20160914 US20170732072 20170913 WO2017US00055 20170913

Probable Assignee: ARMATRON SYSTEMS LLC

Assignee(s): (std): ARMATRON SYSTEMS LLC ; GILES BRAN ; GILES BRIAN ; GILES BRIAN C

Inventor(s): (std): GILES BRIAN C ; GILES BRIAN ; GILES BRAN

Inventor(s): BRIAN C GILES

Agent(s): SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; GEORGE WIDJOJO; MCKINNEY JEFFREY A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 35355051 (MXPA05009105A)

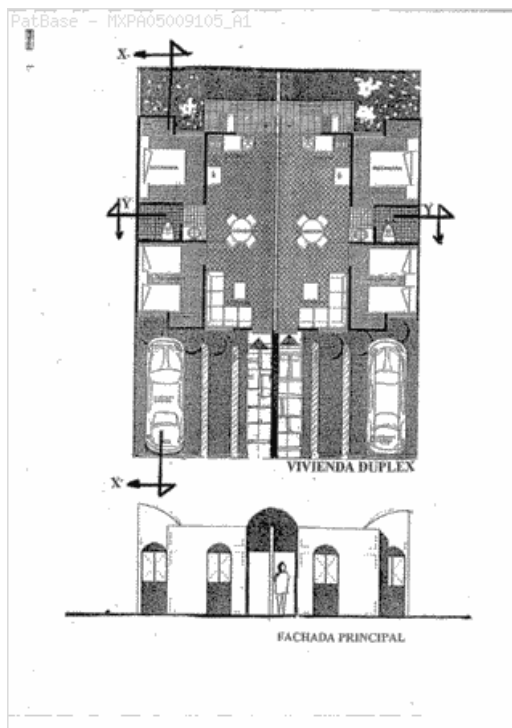
© PatBase

Title: AFFORDABLE BIOCLIMATIC SUSTAINABLE HOUSING.

Abstract: THE PRESENT INVENTION REFERS TO AN INTEGRAL CONSTRUCTIVE SYSTEM AND A METHOD FOR PRODUCING AFFORDABLE BIOCLIMATIC SUSTAINABLE HOUSING, WHICH INCLUDES THE DESIGN AND CONSTRUCTION OF TWO MAIN ARCHITECTONIC ELEMENTS: WALLS AND ROOF, WHICH COMBINED TOGETHER FORM A HOUSING STRUCTURE. THE INVENTION FURTHER USES THE NATURAL CONDITION OF CRUDE SOIL AS A THERMAL INSULATOR, AND THE DESIGN AND CONSTRUCTION OF A REINFORCED CONCRETE ROOF, INSULATED AT THE LOWER BED THEREOF FOR PRODUCING INNER THERMAL COMFORT, AND SAVING DOMESTIC ENERGY CONSUMPTION. I. THE CLAY WALLS CONSTRUCTION IS ACHIEVED BY COMPACTING A SELECTED MATERIAL, AND ADDING MATERIALS AT PREDETERMINED AMOUNTS AND QUALITY (ACCORDING TO THE INVENTORY'S EXPERIENCE AND LABORATORY RESULTS) THAT ARE NOT AVAILABLE IN SITE IN ORDER TO OBTAIN THE REQUIRED COMPACTING PROCTOR GRADE, AND II. THE CONSTRUCTION OF A REINFORCED CONCRETE ROOF INSULATED AT THE LOWER BED THEREOF FOR PROVIDING A SEAL AND A THERMAL INSULATION TO THE HOUSING; 70 PERCENT OF THE INNER HEAT GENERATED BY THE SUN IS IRRADIATED THROUGH THE ROOF. THE MAIN TECHNICAL CHARACTERISTICS OF THE BASH ARE THE FOLLOWING: IT IS A SUSTAINABLE HOUSING; IT MAY BE TURNED AS SOIL TO THE PLACE FROM WHERE IT WAS EXTRACTED; IT IS AN AFFORDABLE HOUSING COSTING 117.06 TIMES AS MUCH AS THE MONTHLY MINIMUM SALARY, REPRESENTING APPROXIMATELY \$166.000.00 MXN; IT IS A BIOCLIMATIC HOUSING, WHICH PROVIDES THERMAL AND ACOUSTIC

Classifications:

International (IPC 8-9): E04B1/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
MXPA05009105 A1	20070226	MX2005PA09105	20050826

Priority:

MX2005PA09105 20050826

Probable Assignee:	MEJIA RAUL DIEGO AGUILAR
Assignee(s): (std):	MEJIA RAUL DIEGO AGUILAR
Assignee(s):	RAUL DIEGO AGUILAR MEJIA
Inventor(s): (std):	MEJIA RAUL DIEGO AGUILAR
Inventor(s):	RAUL DIEGO AGUILAR MEJIA

14) Family number: 45888061 (BRMU8701191U)

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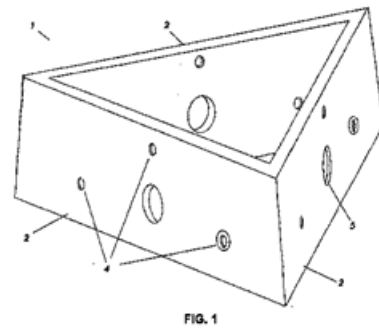
Title: disposicao construtiva introduzida em elemento de construcao auto-portante introduced constructive disposal in element of auto-portante construction (Machine translation)

Abstract: Source: BRMU8701191U [PT] Que sera utilizado na construcao de cupulas geodesicas ou domos geodesicos, a partir do emprego de modulos que possuem formas geometricas identicas; qual seja, a partir de modulos prismaticos cujas bases sao triangulos equilateros, os quais se apresentam dotados de paredes laterais inclinadas em relacao a face triangular central do modulo, formando angulo inferior a 120° em relacao a dita face triangular central do modulo, gerando arestas que tambem se apresentam inclinadas, acompanhando o angulo de inclinacao das ditas paredes laterais do modulo, sendo que o raio da geodesica sera determinado em funcao deste angulo de inclinacao das referidas faces laterais dos modulos, nas quais sao previstos ainda meios para garantir a correta montagem dos modulos, alem de ser provido tambem meios de vedacao entre estes.

Machine translation: That sera used in the construction of geodesic domos geodesic cupolas or, from the job of modules that possess identical geometric forms; which is, from prismatic modules whose bases are equilateral triangles, which is presented endowed with inclined sidewalls in relation the central triangular face of modulates it, forming inferior angle 120° in relation the said central triangular face of I modulate it, generating edges that also are presented inclined, following the angle of inclination of the said sidewalls of I modulate it, being that the ray of geodesic sera determined in function of this angle of inclination of the related lateral faces of the modules, in which they are foreseen still half to guarantee the correct assembly of the modules, beyond being also provided ways of prohibition between these.

Classifications:

International (IPC 8-9): E04B7/00 E04C1/00
E04D13/03 (Advanced/Invention);
E04B7/00 E04C1/00 E04D13/03 (Core/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
BRMU8701191 U2	20100622	BR2007MU01191U	20070524

Priority:

BR2007MU01191U 20070524

Probable Assignee:

MARINHO REGINALDO GUEDES

Assignee(s): (std):

MARINHO REGINALDO GUEDES

Assignee(s):

REGINALDO GUEDES MARINHO

Inventor(s): (std):

MARINHO REGINALDO GUEDES

Inventor(s):

REGINALDO GUEDES MARINHO

15) Family number: 21460062 (FR1257927A)

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Title: PIECES MOULEES EN VERRE POUR VERRIERES DE PLAFOND CAST PIECES IN GLASS CEILING VERRIERES (Machine translation)

Abstract: Source: FR1257927A [FR] (Claim 1) 1. Des pieces moulees en verre pour verrieres de plafonds constituees par du verre ou du verre brut, etc., deforme ou ploye et comportant des dispositifs de protection contre la chute des fragments constitues par des eclats assez gros et dangereux, caracterisees en ce qu'au moins une de leurs surfaces est reliee par points ou dans l'epaisseur a partir de l'exterieur a des elements resistants tels que fils, fils metalliques, ficelles, cordons, etc., ou a des tissus ou a des reseaux constitues par ces elements.

Machine translation: (Claim 1) 1. Molded parts of glass canopies for ceilings with glass or deriving their raw glass, etc., Deformed or ploye and with provision for protection against falling fragments consisting of bursts rather big and dangerous, characterized in that at least one surface thereof is connected by points or in the thickness from the outside has strong elements like son, son metal, strings, cords, etc., or a tissue or the networks formed by these elements.

Classifications:

International (IPC 8-9): E04D13/03 E04D3/06 (Advanced/Invention);

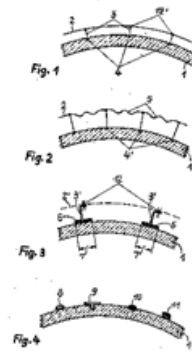
E04D13/03 E04D3/02 (Core/Invention)

International (IPC 1-7): E04D3/06

CPC: E04D3/06 E04D13/0335

European: E04D13/03G E04D3/06

N. 1.257.007 Essai d'un + 2, rétroplaque Pl. unique

**Family:**

Publication number	Publication date	Application number	Application date
FR1257927 A	19610407	FR19600825578	19600428

Priority:

FR19600825578 19600428

Probable Assignee:

EBERSPAECHER J

Assignee(s): (std):

EBERSPAECHER J

Assignee(s):

J EBERSPACHER

16) Family number: 32274070 (US2005210812A)

© PatBase

Title: MASONRY CONSTRUCTION ELEMENT AND METHOD OF MAKING

Abstract: A flexible element (**16**) having a surface is attached to a block element (**24**). An additional block (**26**) is added to make a construction element (**12**). Construction element (**12**) can be added to make a flexible beam (**74**) which can be used to fabricate a variety of structures.

Classifications:

International (IPC 8-9): E04C1/00 E04C2/04 (Advanced/Invention);
E04C1/00 E04C2/04 (Core/Invention)

International (IPC 1-7): E04C2/04

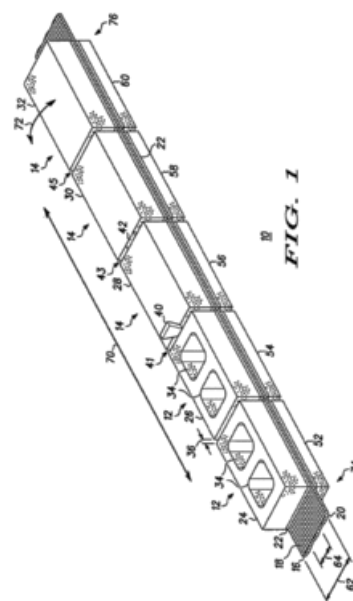
CPC: E04B5/44 E04C2/04

European: E04C1/24 E04C2/04

US: 52/596

PatBase - US2005210812_AA

Patent Application Publication Sep. 28, 2005 Sheet 1 of 3 US 2005/0210812 A1

**Family:**

Publication number	Publication date	Application number	Application date
US2005210812 AA	20050929	US20040811568	20040329

Priority:

Probable Assignee: MOUNTJOY RICK
Assignee(s): (std): MOUNTJOY RICK
Inventor(s): (std): MOUNTJOY RICK
Agent(s): GARY F PLLC

17) Family number: 1429076 (US4041670A)

© PatBase

Title: Building blocks

Abstract: A building method and blocks in which the blocks have integrally formed joining elements along two axes, including a yin yang element to allow selective reversibility of the blocks to form a self-joint with another yin yang element on another block. The yin yang element is universal, and the shapes, volumes, and areas of a male yang and a female yin member are substantially equal on each side of a bilateral plane through the yin yang self-jointing element. Molded masonry blocks formed from cement, water, aggregate, and chemical admixture are assembled without mortar to provide a building system characterized by numerous advantages. Integral complementary elements on said blocks provide a continuous weatherstop in the assemblage along an axis different from the axis of a side having a yin yang element.

Classifications:

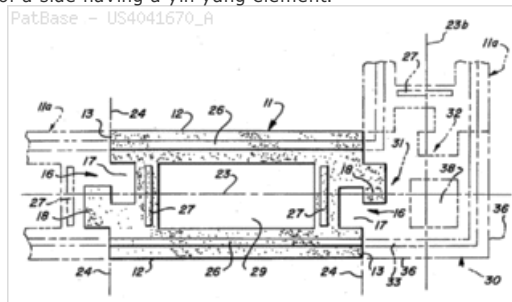
International (IPC 8-9): E04B2/18 (Advanced/Invention);
E04B2/02 (Advanced/Non-invention)

International (IPC 1-7): E04B2/16 E04C1/10 E04C1/30

CPC: E04B2/18 E04B2002/0206 E04B2002/0226 E04B2002/0228
E04B2002/0232 E04B2002/0265

European: E04B2/18 P04B2/02M1A P04B2/02M1F P04B2/02M1G
P04B2/02M2 P04B2/02N4

US: 446/114 446/125 52/591 52/592.2

**Family:**

Publication number	Publication date	Application number	Application date
US4041670 A	19770816	US19760710204	19760730

Priority:

US19720214791 19720103 US19740461793 19740417 US19760710204 19760730

Probable Assignee: KAPLAN RICHARD D

Assignee(s): (std): KAPLAN RICHARD D

Inventor(s): (std): KAPLAN RICHARD D

18) Family number: 28582079 (EP1147982A2)

© PatBase

Title: LIGHT FILLING FOR THE CONSTRUCTION OF ELEVATED DECK AREAS ON SHIPS, AND METHOD OF CONSTRUCTION

Abstract: Elements (10) are standing on four legs (17) on the ground (22) and are placed side by side in the free space between side boards (11). The elements are then covered by a non combustible material and a glass wool mesh so that to form an horizontal surface. The non combustible material is mixed with a binder and will become solid once dry.

Classifications:

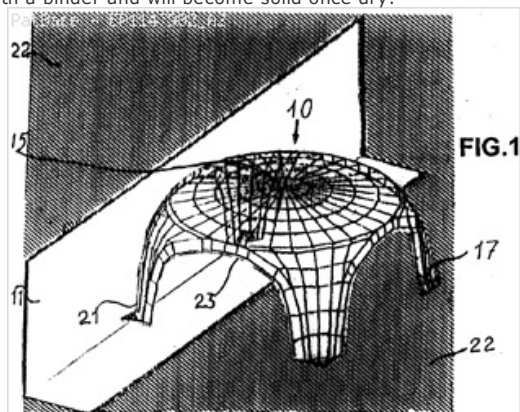
International (IPC 8-9): B63B29/00 E04B5/36 E04B5/48
E04F15/024 (Advanced/Invention);

B63B29/00 E04B5/32 E04B5/48 E04F15/024 (Core/Invention)

International (IPC 1-7): B63B29/00 B63B29/02 B63B3/68 B63B5/06
E04F15/024

CPC: E04B5/326 E04B5/48 B63B29/00 E04B5/36

European: B63B29/00 E04B5/36 E04B5/48

**Family:**

Publication number	Publication date	Application number	Application date
DE60101114 D1	20031211	DE20016001114T	20010305
DE60101114 D1	20031211	DE20016001114	20010305
DE60101114 T2	20040826	DE20016001114T	20010305
EP1147982 A2	20011024	EP20010105287	20010305
EP1147982 A3	20011205	EP20010105287	20010305
EP1147982 B1	20031105	EP20010105287	20010305
EP1147982 B9	20041110	EP20010105287	20010305
IT1314524 B1	20021218	IT2000GE00059	20000419
ITGE20000059 A0	20000419	IT2000GE00059	20000419
ITGE20000059 A1	20011019	IT2000GE00059	20000419

Priority:

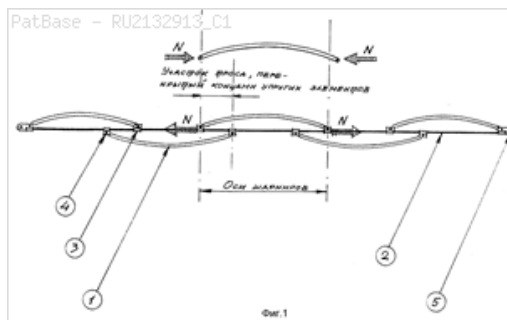
IT2000GE00059 20000419

Probable Assignee: IMPRESA MARINONI S R L**Assignee(s):** (std): IMPRESA MARINONI S R L ; IMPRESA MARINONI SRL**Assignee(s):** IMPRESA MARINONI S R L GENUA GENOVA**Inventor(s):** (std): RONCO ROMEO**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR**19) Family number: 14800091 (RU2132913C)**

© PatBase

Title: COVERING

Abstract: FIELD: industrial and civil engineering. SUBSTANCE: this covering can be used for roofing spans of any configurations and dimensions. Resilient curvilinear precompressed components of covering are pivotally attached by guy rope so that their end sections are mutually overlapping each other. Resilient curvilinear components themselves are interconnected by links which ensure rigid structure only after lifting it to designed position. Thus, guy rope is held constantly tensioned over its entire length due to interaction of resilient components, and entire covering has flying-up configuration after lifting it to designed position. Due to permanent tension in rope caused by other resilient components and not by gravitational load as it takes place in conventional hanging systems using stays and membranes, it is possible by means of stable systems of stays and braces to give covering various configurations for examples such as domes of ball shape or bulb shape, cylindrical vaults, etc. Aforesaid embodiment of covering can resist flutter and can be stable to actions by seismic loads. EFFECT: higher efficiency. 3 cl, 8 dwg

Classifications:**International (IPC 8-9):** E04B1/32 (Advanced/Invention); E04B1/32 (Core/Invention)**International (IPC 1-7):** E04B1/32**Family:**

Publication number	Publication date	Application number	Application date
RU2132913 C1	19990710	RU19980106423	19980407

Priority:

RU19980106423 19980407

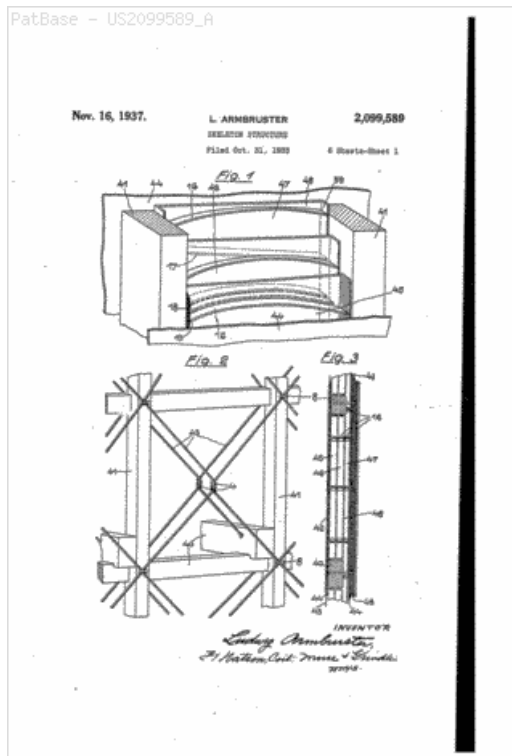
Probable Assignee: MIKHEEV JURIJ MIKHAJLOVICH**Assignee(s):** (std): MIKHEEV JURIJ MIKHAJLOVICH**Inventor(s):** (std): MIKHEEV JURIJ MIKHAJLOVICH**20) Family number: 21273096 (US2099589A)**

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Title: SKELETON STRUCTURE

Abstract: 1. In a building wall or ceiling structure or the like, the combination of intersecting structural members defining substantially rectangular bays, diagonally disposed bracing tension members for rigidifying said bays, said members being secured at intervals to said structural elements, and to each other where they intersect, insulating panels disposed across said bays and secured to said structural members.

Classifications:**International (IPC 8-9):** E04B1/76 E04D13/16 (Advanced/Invention); E04B1/76 E04D13/16 (Core/Invention)**International (IPC 1-7):** E04B1/18**CPC:** E04B1/76 E04D13/1625**European:** E04B1/76 E04D13/16A1C**US:** 52/317 52/407.5 52/479 52/695 52/778 52/780

**Family:**

Publication number	Publication date	Application number	Application date
US2099589 A	19371116	US19350047689	19351031

Priority:

19331005 US19350047689 19351031

Probable Assignee: LUDWIG ARMBRUSTER

Assignee(s): (std): LUDWIG ARMBRUSTER

Inventor(s): (std): LUDWIG ARMBRUSTER

Inventor(s): ARMBRUSTER LUDWIG

21) Family number: 9613098 (SU1562419A)

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Title: METHOD OF CONSTRUCTING SOLID CORRUGATED SHELLS AND VAULTS

Abstract: Source: SU1562419A **Machine translation:** Invention relates to the field of construction insulated shells folded arches of reinforced concrete on the inflated forms. The purpose of the invention - Extension of the scope. Way to the construction of monolithic domes-folded membranes is to place on the base folded aperture 3 of the separating layer of plastic film 4 and batch heat insulation 5 in the form of sheets. Each package of sheets before laying an adhesive composition is coated 6. Solidification of the adhesive composition begins no earlier than the completion of the erection portion arch shell. 3 ill.

Classifications:

International (IPC 8-9): E04G11/04 (Advanced/Invention);

E04G11/00 (Core/Invention)

International (IPC 1-7): E04G11/04



Family:

Publication number	Publication date	Application number	Application date
SU1562419 A2	19900507	SU19884397711	19880325

Priority:

SU19884397711 19880325

Probable Assignee: RESPUB MEZHKHOZYAJSTVENNYJ PT

Assignee(s): (std): RESPUB MEZHKHOZYAJSTVENNYJ PT

Assignee(s): RESPUBLIKANSKIY MEZHKHOZYAJSTVENNYJ PT TREST ORGAG ; RESPUBLIKANSKIY MEZHKHOZYAJSTVENNYJ PT TREST ORGAGROSTROJ

Inventor(s): (std): ANDRIANOVA GALINA S ; SEDYKH YURIJ I ; SHARSHUNOV BORIS A ; SYTNIK NIKOLAJ I ; TERENCEV VALERIJ G

Inventor(s): TERENCEV VALERIJ G SU ; SYTNIK NIKOLAJ I SU ; SHARSHUNOV BORIS A SU ; SEDYKH YURIJ I SU ; ANDRIANOVA GALINA S SU

22) Family number: 4617106 (US4491437A)

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Title: CONNECTOR FOR GEODESIC DOME

Abstract: A metal connector for a geodesic dome structure constructed with wood struts. The connector including a cylindrical hub with metal support arms welded to the outer surface of the hub and extending outwardly in spaced pairs. The arms are formed with openings for receiving bolts which register with bolt openings in the wood struts. In a modified form of the invention, the hubs are formed with internal threads which threadably receive a metal pipe. A second metal connector may be threadably joined to the metal pipe; thereby spacing the connectors for constructing dormers, cupolas doorways, double domes and other peripheral and interior structures.

Classifications:

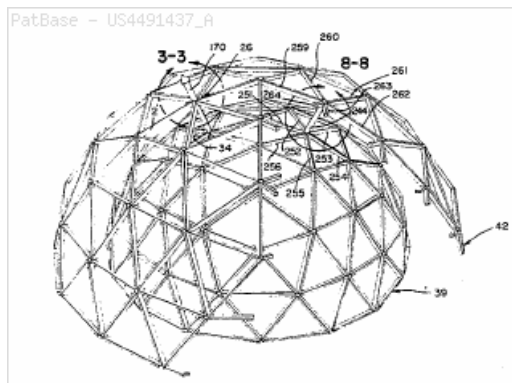
International (IPC 8-9): E04B1/32 (Advanced/Invention); E04B1/32 (Core/Invention)

International (IPC 1-7): E04B1/32

CPC: E04B1/3211 E04B2001/3247 E04B2001/3294 Y10T403/343 Y10T403/347

European: E04B1/32C P04B1/32M1B P04B1/32S

US: 403/172 403/176 52/648 52/655.1 52/81 52/81.3



Family:

Publication number	Publication date	Application number	Application date
US4491437 A	19850101	US19820353201	19820301

Priority:

US19820353201 19820301

Probable Assignee: SCHWARTZ VICTOR M

Assignee(s): (std): SCHWARTZ VICTOR M

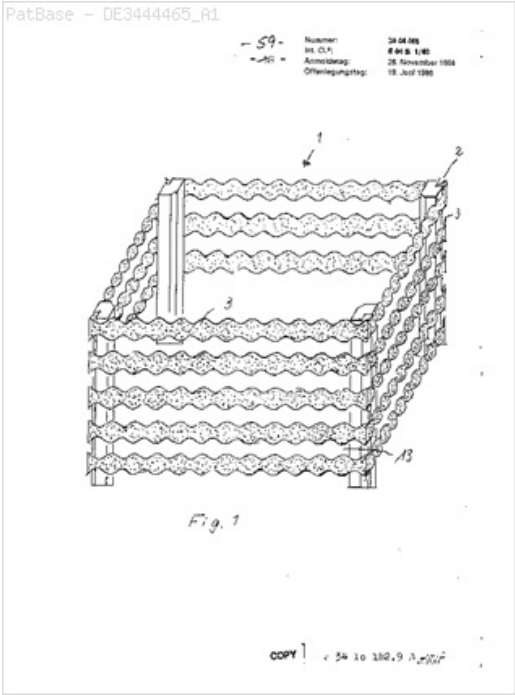
Assignee(s): TIMBERLINE MFG ; TIMBERLINE MFG INC A CA CORP

23) Family number: 3833106 (DE3444465A1) © PatBase

Title: Container having horizontal slats which are attached at intervals from top to bottom and transversely to the vertically upright posts

Abstract: In the case of these containers which essentially comprise the post (2) and the washed concrete profiled slats (3), the double gear dowel (38) is pushed into dowel holes (5) prepared therefor. The double threaded screw (32) is screwed on and off via a transverse bore on the post (2), thus securing the double gear dowel (38) by means of the expanding dowels (30). In contrast to the toothed gear rim (33), the gear drive key (33 and 33a and b) has a left-right synchro mesh gear (33a and 33b) on the end faces. For correct guiding and securing, an operating dowel (29) is pushed into the transverse bore of the post (2) and is covered by the dowel cap (29a) after assembly. The operating dowel (29) has recesses in the region of the gear chamber (31) and for insertion and connection with the double gear dowel (38). Relatively large dowels (38) require more teeth on the toothed gear rim (33) and mini dowels require approximately eight to ten or less teeth. As a result, teeth are provided which are large enough to start up the drive. In the case of very short dowels (38), the expanding dowel (30) has an elliptical and spherical shape. The outer shape of the double gear dowel (38) is also configured to be round in cross-section and in the form of an equilateral triangle in the case of simple dowels which are not subjected to loading. Overall, the double gear dowel (38) can fulfil the requirements made on it.

Classifications:
International (IPC 8-9): E04H7/26 (Advanced/Invention);
E04H7/00 (Core/Invention)
International (IPC 1-7): E04B1/48
CPC: E04H7/26
European: E04H7/26



Family:

Publication number	Publication date	Application number	Application date
DE3444465 A1	19860619	DE19843444465	19841126
DE3444465 C2	19861127	DE19843444465	19841126

Priority:

DE19843444465 19841126

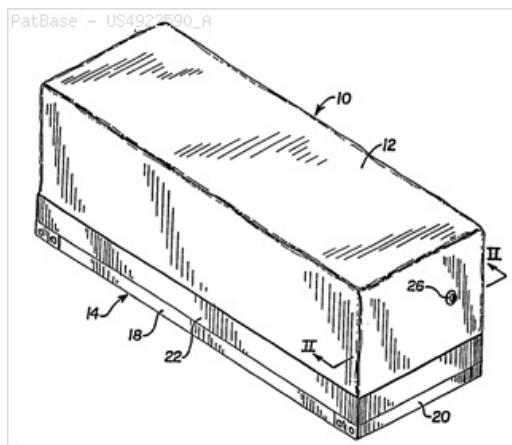
Probable Assignee: MATTHISS FRITZ
Assignee(s): (std): MATTHISS FRITZ
Assignee(s): MATTHISS FRITZ 7597 RHEINAU DE
Inventor(s): (std): MATTHISS FRITZ
Inventor(s): MATTHISS FRITZ 7597 RHEINAU DE

24) Family number: 3432111 (US4922590A) © PatBase

Title: Compact casket enclosure system and method

Abstract: To overcome problems concerning compact, inexpensive and long-term storage of entombment caskets in mausoleum crypts their is provided a extremely lightweight, yet durable enclosure for hermetically sealing caskets. The invention includes a foldable casket tray which receives a casket. A durable cover of wrapping material is placed over the casket and is attached and hermetically sealed to the tray. The cover is formed with a pressure relief valve for periodic self-ventilation of gases produced by decomposition of the casket and its contents enclosed within the hermetically sealed enclosure. When in folded condition, the tray serves as a compact shipping and storage container for the cover, a tray liner, and materials for attaching and hermetically sealing the cover to the tray. By virtue of the hermetic seal and extreme light weight of the enclosure, the enclosure is particularly adaptable for use in more compact, lightweight and inexpensive casket storage rack systems than are presently required for above ground mausoleum crypts.

Classifications:
International (IPC 8-9): A61G17/00 E04H13/00 (Advanced/Invention);
A61G17/00 E04H13/00 (Core/Invention)
International (IPC 1-7): A61G17/00
CPC: A61G17/00 E04H13/006
European: A61G17/00 E04H13/00D
US: 27/19 27/35



Family:

Publication number	Publication date	Application number	Application date
CA1285377 A1	19910702	CA19890599769	19890516
US4922590 A	19900508	US19890333254	19890405
WO9011749 A1	19901018	WO1990US01778	19900403

Priority:

US19890333254 19890405 CA19890599769 19890516

Probable Assignee:

YEARSLEY DAVID

Assignee(s): (std):

YEARSLEY DAVID : YEARSLEY DAVID A

Inventor(s): (std):

YEARSLEY DAVID A ; YEARSLEY DAVID

Agent(s):

BORDEN LADNER GERVAIS LLP

Designated states:

AT BE CH DE DK ES FR GB IT LU NL SE

25) Family number: 16636118 (DE8529025U1)

Abstract: Source: DE8529025U1 [DE] (Claim 1) VEGYTERV Vegyimueveket Tervezoe Vaellalat, Budapest/Ungarn Kuppel aus Schalenelementen Teil der Bogenzweicke der aeusseren Kugelfaechen (Gk) bil- den und zuletzt die mittige Erzeugende (8) der Mulde (3) auf den Laengnenkreis der inneren Kugelfaechen (Gb) faellt.

Machine translation: (Claim 1) VEGYTERV Vegyimueveket Tervezo Vaellalat, Budapest / Hungary dome shell elements of the arc two-corner conditions of the external Kugelflaechen (Gk) form-the, and finally the central generators (8) of the trough (3) on the Laengenkreis the inner Kugelflaeche (Gb) falls.

Classifications:

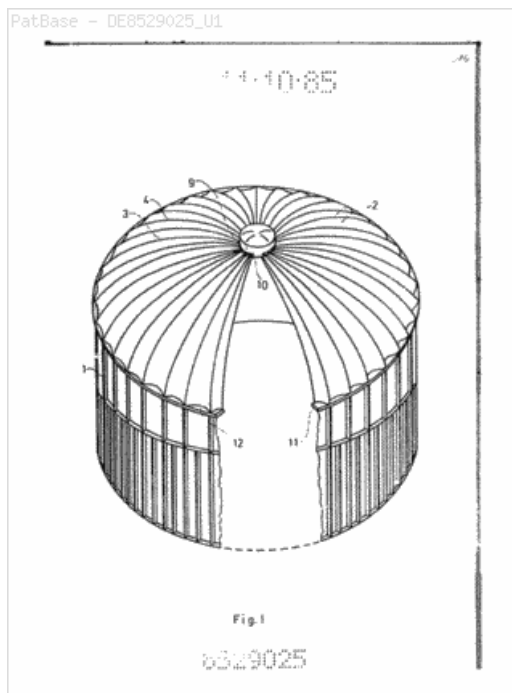
International (IPC 8-9): E04B7/10 (Advanced/Invention);

E04B7/10 (Core/Invention)

International (IPC 1-7): E04B7/10

CPC: E04B7/102

European: E04B7/10B



Family:

Publication number	Publication date	Application number	Application date
DE8529025 U1	19851128	DE19850029025U	19851011

Priority:

DE19850029025U 19851011

Probable Assignee: VEGYTERV VEGYIMUEVEKET TERVEZOE VALLALAT BUDAPEST HU

26) Family number: 6642118 (GB2232695A)

© PatBase

Title: Geodesic structure

Abstract: A geodesic structure 10, for greenhouse construction for example, includes polygonal networks of principal structural flat panels, 11 and/or stressed skin shell plates, 12 which are interconnected through their slender load-bearing flanges, 13 to enclose open space working environment and to define the spherical curvature of the spacedome. The spacedome's flat panels, 11 or shell plate, 12 can be prefabricated and the structure can be erected with these panels on site, without use of any formworks starting from the perimeter of the space toward the apex of the spacedome. Thus they offer great economy through efficiency of construction and the panel fabrication techniques.

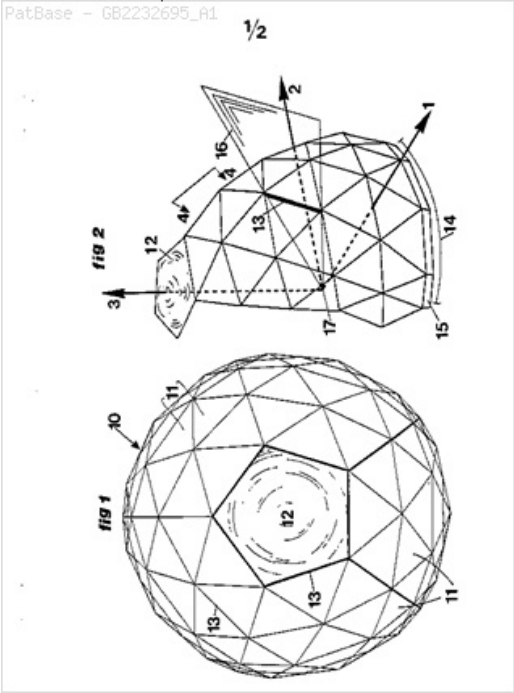
Classifications:

International (IPC 8-9): E04B1/32 (Advanced/Invention); E04B1/32 (Core/Invention)

International (IPC 1-7): E04B1/342

CPC: E04B1/3211 E04B2001/3276 E04B2001/3288 E04B2001/3294

European: E04B1/32C P04B1/32P1 P04B1/32P2 P04B1/32S



Family:

Publication number	Publication date	Application number	Application date
GB2232695 A1	19901219	GB19890013033	19890607
GB8913033 A0	19890726	GB19890013033	19890607

Priority:

GB19890013033 19890607

Probable Assignee:

KASHANI MANOUCHER

Assignee(s): (std):

KASHANI MANOUCHER ; ZIARI ALI

Assignee(s):

MANOUCHER KASHANI ; ALI ZIARI

Inventor(s): (std):

KASHANI MANOUCHER ; ZIARI ALI

Inventor(s):

MANOUCHER KASHANI ; ALI ZIARI

27) Family number: 43489128 (ES1070254U)

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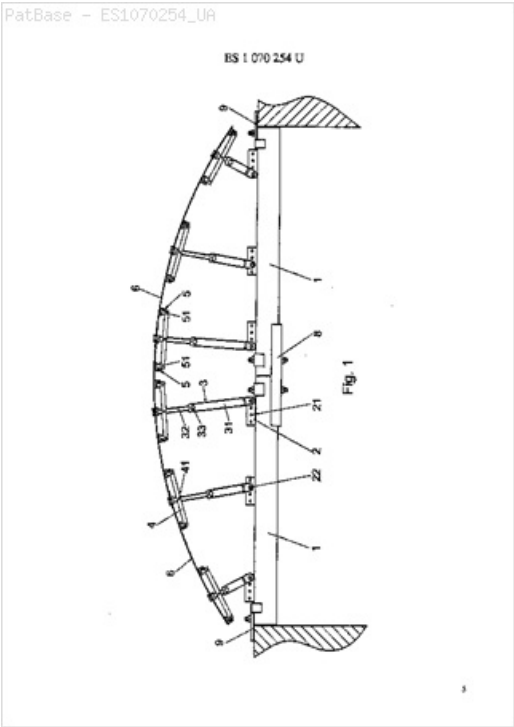
Title: DISPOSITIVO DE SOPORTE PARA LA CONSTRUCCION DE BOVEDAS DE OBRA SUPPORT DEVICE FOR BUILDING WORKS VAULTS (Machine translation)

Abstract: Source: ES1070254U [ES] 1. Dispositivo de soporte para la construccion de bovedas de obra; caracterizado porque esta constituido por una estructura modular que comprende, al menos: una viga destinada a conformar un apoyo horizontal en la zona de construccion de la boveda, unos brazos de longitud regulable montados superiormente sobre dicha viga de apoyo con posibilidad de regulacion posicional y de inclinacion, unos soportes montados sobre el extremo libre de los brazos con posibilidad de fijacion con diferentes inclinaciones laterales, definiendo el conjunto de soportes la trayectoria de la boveda a construir, y presentando al menos una parte de los soportes unas mordazas de apriete para la fijacion de unas pletinas de acero que adoptan la trayectoria de la boveda y definen una superficie para el apoyo de las piezas conformantes de la boveda durante su construccion. 2. Dispositivo, segun la reivindicacion 1, caracterizado porque las vigas comprenden unas orejetas con varios orificios transversales, distanciados longitudinalmente, para el montaje opcional de los brazos de longitud regulable y su fijacion, con la inclinacion deseada, mediante un tornillo o elemento de apriete. 3. Dispositivo, segun cualquiera de las reivindicaciones anteriores, caracterizado porque los brazos de longitud regulable comprenden al menos dos tramos alineados montados telescopicamente y provistos de unos medios de apriete para su inmovilizacion relativa. 4. Dispositivo, segun cualquiera de las reivindicaciones anteriores, caracterizado porque cada brazo de longitud regulable comprende varios soportes orientados transversalmente, distanciados longitudinalmente y fijados a un larguero por unos medios de apriete que permiten su orientacion lateral; y porque dicho larguero se encuentra fijado a su vez al extremo libre del brazo mencionado por unos medios de apriete que permiten regular su inclinacion y su fijacion respecto al brazo correspondiente con la inclinacion deseada. 5. Dispositivo, segun cualquiera de las reivindicaciones anteriores, caracterizado porque comprende dos vigas paralelas, con los respectivos brazos de longitud regulable y largueros, encontrandose los soportes centrados respecto a las parejas de largueros asociados a los brazos de las respectivas vigas. 6. Dispositivo, segun cualquiera de las reivindicaciones anteriores, caracterizado porque comprende unas grapas para el acoplamiento alineado de al menos dos vigas portadoras de los respectivos brazos y soportes, y la variacion de la longitud total del dispositivo. 7. Dispositivo, segun cualquiera de las reivindicaciones anteriores, caracterizado porque comprende en aquellos extremos de

las vigas conformantes de los extremos opuestos del dispositivo, unos apendices para el apoyo del dispositivo sobre las columnas o paredes destinados a sustentar los extremos de la boveda a construir.

Machine translation: 1. Device support for the construction of vaults of work, characterized in that this consists of a modular structure comprising at least: a beam designed to form a horizontal support in the construction of the vault, adjustable length arms mounted above by about said beam support with possibility of positional regulation of inclination, some brackets mounted on the free end of the arms with the possibility of lateral fixation with different inclinations, the array of supports defining the trajectory of the vault to be built, and presenting at least one part of the jaws clamping brackets for fixing a steel plates that take the path of the vault and define a support surface for conforming parts of the vault during its construction. 2. Device according to claim 1, wherein the beams comprise a transversal lug with several holes, spaced longitudinally for optional mounting of adjustable length arms and its fixation, with the desired inclination by a screw or clamping element. 3. Device according to any of the preceding claims, wherein the adjustable length arms comprise at least two aligned sections telescopically mounted and provided with tightening means for relative immobilization. 4. Device, according to any of the preceding claims, characterized in that each arm of adjustable length comprises several supports transversely oriented, longitudinally spaced and fixed to a rail by clamping means which allow its lateral orientation, and in that said rail is fixed in turn the free end of said arm by tightening means for regulating its inclination and its fixation on the arm corresponding to the desired inclination. 5. Device according to any of the preceding claims, further comprising two parallel beams with the respective arms of adjustable length and stringers, finding the media focused on couples of beams associated with the arms of the respective beams. 6. Device, according to any of the preceding claims, characterized in that it comprises a staple for coupling at least two alignment beams carrying the respective arms and brackets, and the variation of the total length of the device. 7. Device, according to any of the preceding claims, characterized in that those ends of the beams at opposite ends conforming device, some appendages for supporting the device on the columns or walls designed to support the ends of the vault to be built.

Classifications:
International (IPC 8-9): E04B1/32 E04B9/00 (Advanced/Invention);
E04B1/32 E04B9/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
ES1070254 UA	20090703	ES20090000832U	20090504
ES1070254 Y1	20091027	ES20090000832U	20090504

Priority:
ES20090000832U 20090504

Probable Assignee: CEMENTOS COLLET S L
Assignee(s): (std): CEMENTOS COLLET S L
Inventor(s): (std): CASAS COTS MARIA

28) Family number: 20856129 (DE641575A) © PatBase

Title: VERSTÄRKUNGSGERIPPE, INSBESONDERE ZUR SICHERUNG VON BAUWERKEN GEGEN ERDBEBENSCHÄDEN
VERSTÄRKUNGSGERIPPE, ESPECIALLY FOR PROTECTING STRUCTURES AGAINST EARTHQUAKE DAMAGE (Machine translation)

Abstract: Source: DE641575A [DE] (Claim 1) 1. PATENTANSPRUECHE: i. Verstaerkungsgерippe, insbesondere zur Sicherung von Bauwerken gegen Erdbeben schaedен sowie zur Verfestigung alter Bau ten, gekennzeichnet durch eine in die Wan dung des zu verstaerkenden Bauwerks ein gelassene oder aufgesetzte, maschenartige Eiseibetonverstaerkung, deren lotrecht, waagerecht oder schraeg verlaufende Ele mente aus Eisenbetonstreifenpaaren be stehen, welche die zu verstaerkenden Bau teile zwischen sich einspannen und welche durch uei Abstaenden angeordnete Binder untereinander verbunden sind.

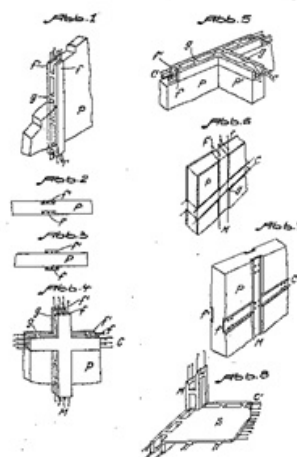
Machine translation: (claim 1) 1 CLAIMS: skin eden i Verstaerkungsgерippe, particularly for securing buildings against earthquakes, as well as for the consolidation of old building th, characterized by the Wan application of strengthened are building a serene or patch, mesh-like Eiseibetonverstaerkung whose vertical, horizontal or diagonal elements of elements reinforced concrete strip pairs be available, which share the building to be amplified between the clamp and which are connected by uei spaced ties with each other.

Classifications:**International (IPC 8-9):** E04H9/02 (Advanced/Invention);

E04H9/02 (Core/Invention)

International (IPC 1-7): E04C3/00 E04H9/02**CPC:** E04H9/02**European:** E04H9/02

PatBase - DE641575_A

Zu der Patentchrift: 641 575
Kl. 371 Gr. 7a**Family:**

Publication number	Publication date	Application number	Application date
DE641575 A	19370205	DE1933S110442D	19330803

Priority:

19320804 DE1933S110442 19330803

Probable Assignee: ANONIMA COMMERCIO IND EDILI SO**Assignee(s):** (std): ANONIMA COMMERCIO IND EDILI SO**Assignee(s):** SOCIETA ANONIMA COMMERCIO INDUSTRIA EDILI**29) Family number: 24047132 (US4727632A)**

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Title: ARTICLE AND METHOD FOR ENCLOSING AND PROTECTING ENTOMBMENT CASKETS

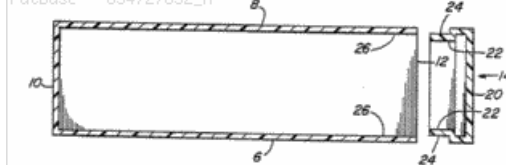
Abstract: To overcome problems concerning storage of entombment caskets in crypts or mausoleums, particularly garden crypts, there is provided an air-tight end-capped casket-enclosing article made of suitable material, such as rotation-molded polyethylene or other suitable synthetic resinous (plastic) material, alone or reinforced with suitable other fibrous material, such as fiberglass.

Classifications:**International (IPC 8-9):** A61G17/00 E04H13/00 (Advanced/Invention);

A61G17/00 E04H13/00 (Core/Invention)

International (IPC 1-7): A61G17/00 E04H13/00**CPC:** A61G17/007 E04H13/005 A61G17/00 E04H13/00**European:** A61G17/00 E04H13/00 E04H13/00C**US:** 27/35 27/7 52/134 52/139

PatBase - US4727632_A

**Family:**

Publication number	Publication date	Application number	Application date
US4727632 A	19880301	US19860894001	19860807
USRE33636 E	19910716	US19900482032	19900220

Priority:

US19860894001 19860807 US19900482032 19900220

Probable Assignee: YEARSLEY DAVID A**Assignee(s):** (std): YEARSLEY DAVID A**Inventor(s):** (std): YEARSLEY DAVID A**30) Family number: 15996137 (EP1236843A2)**

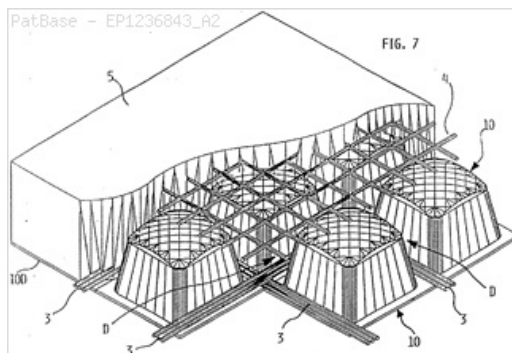
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Title: SYSTEM, METHOD AND MODULAR FORMS FOR THE PRODUCTION OF FLOORS

Abstract: This invention describes a system and a method for the production of floors, based on the use of modular forms (1, 2), in order to form a structure that can contain a concrete cast (5); on the resulting structure there are lightening cavities and seats (D) for suitable reinforcing elements (3), the above-cited seats forming load-bearing ribs or beams, after the positioning of the above-mentioned reinforcing elements (3), the casting of the concrete (5) and its subsequent consolidation. <??>The invention enables to produce floors in reinforced concrete, with parallel unidirectional load-bearing ribs or lacunar elements with load-bearing crossed ribs, suited to comply with the static requirements of all floors of both civil and industrial buildings, in brick or reinforced concrete, and in particular for anti-seismic buildings.

Classifications:

International (IPC 8-9): E04B5/32 E04B5/48
E04G11/40 (Advanced/Invention);
E04B5/32 E04B5/48 E04G11/00 (Core/Invention)
International (IPC 1-7): E04B5/32 E04G11/40 E04G11/46
CPC: E04B5/326 E04G11/40 E04B5/21 E04B5/48
European: E04B5/32 E04B5/48 E04G11/40



Family:

Publication number	Publication date	Application number	Application date
EP1236843 A2	20020904	EP20010129435	20011210
EP1236843 A3	20040114	EP20010129435	20011210
IT1320747 B1	20031210	IT2000TO01159	20001213
ITTO20001159 A0	20001213	IT2000TO01159	20001213
ITTO20001159 A1	20020613	IT2000TO01159	20001213

Priority:

IT2000TO01159 20001213

Probable Assignee: CRISTALLI NICOLA

Assignee(s): (std): CRISTALLI NICOLA ; STUDIO TECNICO ING GIORGIO CRI ; STUDIO TECNICO ING GIORGIO CRISTALLI ; STUDIO TECNICO ING GIORGIO CRISTALLI

Inventor(s): (std): CRISTALLI GIORGIO

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

31) Family number: 34143137 (FR2888630A)

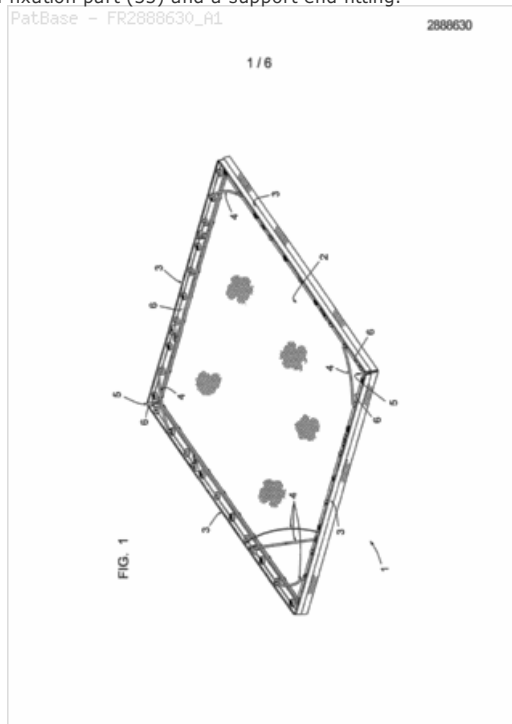
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Title: ELEMENT ASSEMBLY FOR E.G. MOUNTING PANEL ALONG WALL, HAS EDGING ELEMENTS WITH ENDS DEFINING GROOVES FORMING HOUSINGS TO RECEIVE ASSEMBLING PARTS, AND MOUNTING/JOINTING PART WITH TERMINAL RECEIVING ROD AND JOINING ANGLES OF ADJACENT PANELS

Abstract: The assembly has connecting elements for connecting edging elements (3) assembled to constitute a support structure. The connecting elements maintain the edging elements one with respect to the other such that ends of two successive edging elements come closer to each other after assembly. The ends define grooves which form housings for receiving assembling parts (10). A mounting/jointing part (20) joins angles of adjacent panels and has a central threaded terminal receiving a suspension/positioning rod (22) which receives a fixation part (35) and a support end fitting.

Classifications:

International (IPC 8-9): E04B9/04 E04B9/06 E04B9/22 F16S1/02
F16S3/08 (Advanced/Invention);
E04B9/04 E04B9/06 E04B9/22 F16S1/00 F16S3/00 (Core/Invention)
CPC: E04B9/0428 E04B9/18 E04B2009/0492
European: E04B9/04D E04B9/18 P04B9/04T



Family:

Publication number	Publication date	Application number	Application date
FR2888630 A1	20070119	FR20050005298	20050526

Priority:

FR20050005298 20050526

Probable Assignee:

LALLEMAND ABEL

Assignee(s): (std):

LALLEMAND ABEL

32) Family number: 20219138 (GB975604A)

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Title: Roof for a building

Abstract: The Specification gives a resume of prior room temperature vulcanising rubber-forming compositions. Two-package systems described are: (A) U.S.A. Specification 2,833,740 in which the system consists of (1) a liquid acid-free diorganopolysiloxane, (2) from 0.1 to 50 percent (by wt. of the siloxane) of a non-volatile alkylpolysilicate (alkyl radicals of less than 6 C atoms) and (3) from 0.01 to 10 percent of a condensation product of an aliphatic aldehyde and an aliphatic primary amine, both of which contain less than 8 C atoms; (B) in a modification, as described in U.S.A. Specification 2,927,907, ingredient (2) is a hydrocarbon silicate in which the hydrocarbon radicals contain less than 8 C atoms and catalyst (3) is a carboxylate (of less than 16 C atoms) of a metal ranging from Pb to Mn in the electromotive series of metals; (C) an improvement of (B) is shown in Specification 844,128 in which the siloxane (1) contains terminal Si-OH groups, the cross-linking agent (2) is either a silicate of the formula $R_{14-m}Si(OCH_2.CH_2OR_{11})_m$, in which R1 is a monovalent hydrocarbon or halohydrocarbon radical of less than 7 C atoms, or a partial hydrolysate thereof, and (3) is a carboxylate of a metal above H in the electromotive series of metals; (D) U.S.A. Specification 2,843,555, in which siloxane (1) is a liquid linear siloxane containing terminal Si-OH groups, (2) is an alkyl silicate and (3) is a carboxylate of Pb, Sn, Zr, Sb, Fe, Cd, Ba, Ca, Ti, Bi or Mn; (E) Specification 804,199 in which the system comprises (1) 95 to 99.9 percent of a hydroxylated siloxane, (2) 0.01 to 5 percent of an organohydrogensiloxane and (3) as curing catalyst a metal carboxylate or an organometallic compound, such as tetra-lauryl tin or tetraphenyl lead; (F) Specification 841,825, in which siloxane (1) has terminal Si-bonded-OH or alkoxy radicals, (2) is a polyfunctional silane, siloxane, silicate, surface-modified silica filler or a titanium ester, and (3) a catalyst, numerous examples of which are given. One-package systems described are: (G) Specifications 862,576, 884,687 and 894,758, and these are based on acyloxysiloxanes which are vulcanised by exposure to moisture; (H) Specification 975,603 in which the siloxane consists essentially of units of the formula wherein X is $R_2C=$ or in which R11 is a divalent hydrocarbon or halohydrocarbon radical, R is a monovalent hydrocarbon radical, R1 is R, H or cyanoalkyl, b= 0 to 2, d=1 to 3 and c=0 to 3, and is cured by exposure to moisture in the presence or absence of a curing catalyst; (I) Specification 933,417 in which the system comprises a siloxane containing Si-bonded alkoxyethoxy radicals and a condensation catalyst which is active at room temperature to form a liquid system which is stable in the absence of moisture but cures to a solid at room temperature in the presence of moisture; (J) Specification 962,061, in which the system comprises (1) a siloxane containing terminal Si-OH groups, (2) a silane of the formula $R_1xSi(OR_{11})_4-x$, wherein R1 is a monovalent hydrocarbon, halohydrocarbon or cyanoalkyl radical of 1 to 18 C atoms, R11 is an aliphatic or halo-aliphatic hydrocarbon radical of less than 5 C atoms and x has an average value of 0 to 1, and (3) at least 0.1 percent of an organotitanium compound, and is cured on exposure to moisture; and (K) Specification 957,554, in which the system is based upon certain silcarbane-siloxanes containing Si-bonded alkoxy radicals and which cure on exposure to moisture in the presence of suitable catalysts. All the above compositions may contain the customary fillers and additives. ALSO: A permanently waterproofed roof comprises a load-bearing thin shell member, preferably of reinforced concrete, and a thin membrane of a silicone rubber. The waterproofing is effected by applying, preferably by spraying, to the external surface of the roof a room temperature vulcanizing silicone rubber-forming composition. Numerous examples of known silicone rubber-forming compositions are given (see Division C3).

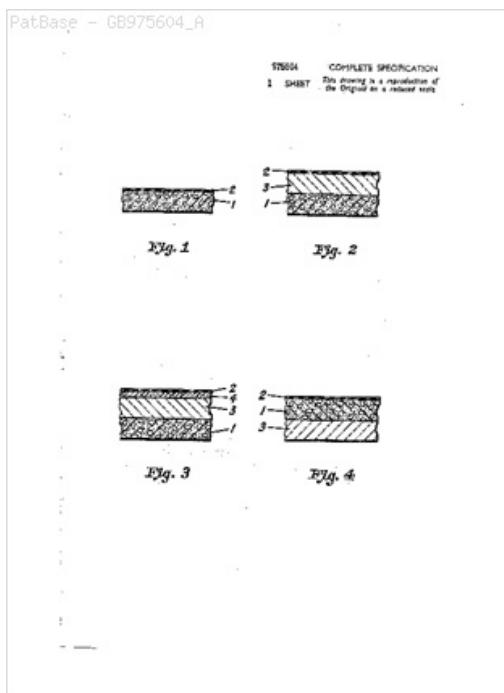
Classifications:

International (IPC 8-9): E04D5/10 (Advanced/Invention);
E04D5/00 (Core/Invention)

International (IPC 1-7): E04D5/10

CPC: E04D5/10

European: E04D5/10

**Family:**

Publication number	Publication date	Application number	Application date
GB975604 A	19641118	GB19620047795	19621218

Priority:

US19620168923 19620126

Probable Assignee: DOW CORNING

Assignee(s): (std): DOW CORNING

Assignee(s): DOW CORNING CORP

33) Family number: 23028144 (FR1267751A)

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Title: PROCEDE ET DISPOSITIFS DE REALISATION ET D'EMPLOI DE COFFRAGES METALLIQUES OU AUTRES, A MONTAGE, MISE EN PLACE ET DEMONTAGE RAPIDES, UTILISABLES EN PARTICULIER POUR LA CONSTRUCTION DE BATIMENTS EN CIMENT METHOD AND DEVICES FOR CARRYING AND USE OF FORMS METAL OR OTHER MOUNT, INSTALLATION AND

Abstract: Source: FR1267751A [FR] [Source: Claim 1] RESUME Procédé de coffrage, rapide et économique, utilisable en particulier pour la construction de bâtiments et applicable à de nombreux éléments de construction, en ciment ou matériaux analogues, armes ou non, tels que poteaux, poutres, planchers, murs, soutènements, revêtements, voutes, terrasses, barrages, arches de ponts, etc., et caractérisé par l'emploi, séparé ou combiné, d'éléments, dispositifs, appareils ou accessoires, généralement standardisés, dont les principaux sont énumérés ci-après: Panneaux de coffrage légers, comportant des bords et des rebords repliés qui contribuent à les renforcer et à les raidir et qui servent à leur montage sur les charpentes du coffrage; Charpentes légères, à montage et démontage rapides, permettant l'assemblage et la fixation des panneaux de coffrage, constituées au moyen de profils spéciaux, sortes de cornières, de U, etc., dont les sections ont des formes appropriées à la réalisation d'assemblages entre eux et avec les panneaux de coffrage qui viennent s'y adapter; Dispositifs d'assemblage des éléments de charpente entre eux, au moyen d'entretoises, disposées provisoirement ou définitivement à des emplacements convenablement choisis, et servant à maintenir ces éléments à leurs positions respectives; Dispositifs d'assemblage des panneaux de coffrage avec les profils des charpentes, permettant, après la mise en place de ces panneaux, de les maintenir à leur position, par le moyen des rebords dont ils sont munis et qui servent de butée, ou par tous autres moyens analogues; Dispositifs d'assemblage et de serrage rapides de ces éléments entre eux, au moyen de presses, à vis ou de tout autre système; Blocage énergétique des ensembles réalisés, rendus ainsi indéformables, par des presses-entretoises de dimensions convenables, ou des dispositifs analogues; Boulons spéciaux à tête de forme appropriée, permettant son passage dans les rainures des profils d'assemblage et utilisés pour la fixation des diverses pièces et éléments sur ces profils d'assemblage; Plaques et croix d'assemblage des éléments de profils constitutifs des charpentes; Dispositifs de fixation et de blocage des panneaux de coffrage sur les profils d'assemblage, à plaques et ou à étriers de serrage; Cadres de montage, d'assemblage et de fixation des éléments utilisés pour le coffrage des poutres horizontales; Supports légers, extensibles et réglables en hauteur, utilisables pour soutenir les coffrages de poutres, planchers, etc.; Entretoises de calage, utilisées pour les coffrages des murs ou des parois en pente; Feuilles de caoutchouc ou matériaux analogues employées pour tapisser, les surfaces de coffrage, ou panneaux revêtus des mêmes matériaux, présentant en creux et ou en relief des motifs d'ornementation à reproduire sur la surface du ciment; Procédés et dispositifs pour la vibration du béton, appliqués sur les coffrages ainsi réalisés; Application des procédés au coffrage de bâtiments de forme générale parallélépipédique ou de formes plus complexes qui en sont dérivées, par l'emploi de charpentes, panneaux et accessoires de coffrage conformes à ou dérivés de ceux qui ont été énoncés; Construction de murs, planchers et autres éléments réalisés en parois composées de matériaux divers, comportant une ossature, généralement en ciment armé, constituée par une paroi extérieure munie de nervures perpendiculaires divisant la surface intérieure en un certain nombre de compartiments pouvant être ensuite remplis de matériaux légers constituant isolation thermique et phonique; Procédé de coffrage de l'ossature de telles parois par l'emploi de charpentes, panneaux de coffrage, accessoires et dispositifs d'assemblage appropriés; Panneaux de coffrage à surface utile cylindrique, sphérique, etc., obtenus par cintrage, emboutissage, ou tout autre procédé de fabrication appropriée, et applicables au coffrage de voutes, coupoles, etc.; Moules pour coffrages de formes complexes; Application des divers éléments de coffrage et de leurs accessoires pour la réalisation de constructions légères, rapidement montables et démontables, telles que tribunes, estrades, etc.; Appareils et dispositifs de serrage et blocage instantanés, applicables au montage des éléments du coffrage et remplaçant le système de serrage par écrou: Dispositifs divers permettant d'accroître la résistance et l'indéformabilité des assemblages constitués avec les divers éléments de profils de charpente, etc.

Machine translation: [Source: Claim 1] SUMMARY formwork Method, fast and economical, usable in particular for the construction of buildings and applicable to many building components, cement and similar materials, weapons or not, such as poles, beams, floors, walls, roof supports, coatings, vaults, terraces, dams, bridges, arches, etc., characterized by employment, separated or combined, of elements, devices, appliances or accessories, generally standardized, the main are listed here after: formwork panels lightweight, having edges and rims replies that contribute to strengthen and stiffen them and serve to their mounting on the frames of the formwork; Carpentry slight, a rapid assembly and disassembly, allowing the assembly and fixing of formwork panels, made using special profiles, types of cornières, U, etc., whose sections have shapes appropriate to the achievement of connections between them and with the formwork panels coming adapt; Connecting devices of the elements of framing them, by means of spacers arranged temporarily or definitely a suitably chosen locations and serving to maintain these elements to their respective positions; Connecting devices of form panels with profiles of frames, allowing, after the establishment of these panels, to maintain a position, by means of ledges which they are provided and serve as butee, or by all like facilities; rapid assembly devices and tightening these items together, using presses, screw or any other system; Blocking realized energetic sets, made and filled with contoured polyurethane, by cross-presses of suitable size, or the like; Special bolts of a tête appropriate form, allowing it to pass into the grooves of assembling profiles and used for fixing the various parts and Elements on the assembly profiles; Plates and cross assembly of the elements of constituent profiles of the frames; Securing devices and locking formwork panels on the assembly profiles, plates and has a clamping or stirrups; mounting frames, assembly and fastening of the elements used for the shuttering of horizontal beams; Supports lightweight, stretchable and adjustable in height, used to support formwork beams, floors, etc.; timing spacers used for shuttering walls or sloping walls; rubber sheets or similar materials employed to line, the form surfaces or panels coated with the same materials, having recessed or raised and decorative purposes to be reproduced on the surface of the cement; Processes and devices for vibration of concrete, wall formwork on and realized; Application of the processes shuttering general form of buildings parallélépipédic or more complex forms that are derived by the use of frames, panels and formwork accessories conform to or derived from those statements were; Construction of walls, floors and other items realized into compound walls of various materials, including a framework, usually in weapon cement, constituted by an outer wall with perpendicular ribs dividing the interior surface into a number of compartments can be then filled materials lightweight component thermal and sound insulation; Process for shuttering framing such walls through the use of framing, formwork panels, accessories and connecting devices appropriate; shuttering panels has cylindrical working surface, spherical, etc., obtained by bending, stamping, or any other appropriate manufacturing process, and applicable to the form of arches, domes, etc.; Formwork molds for complex shapes; Application of various formwork Elements and accessories for the realization of slight constructions quickly dismantlable, such as forums, platforms, etc.; Devices and clamping devices and instantaneous blocking, applicable to the installation of the formwork entirety and replacing the system by tightening nut: Miscellaneous devices allowing to increase the resistance and dimensional stability of the constituted assemblies with various components of structural profiles, etc..

Classifications:

International (IPC 8-9): E04G11/00 E04G17/04 (Advanced/Invention);

E04G11/00 E04G17/04 (Core/Invention)

International (IPC 1-7): E04G11/00 E04G17/04

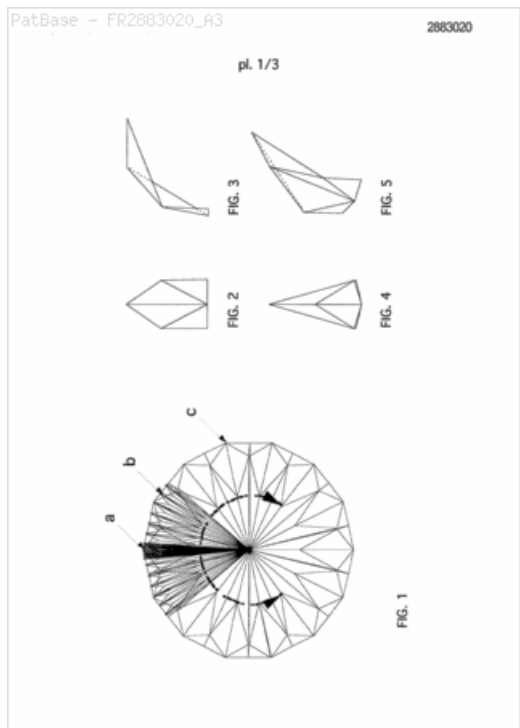
CPC: E04G11/00 E04G17/04

European: E04G11/00 E04G17/04

Publication number	Publication date	Application number	Application date
FR1267751 A	19610728	FR19540668424	19540505

GRENIER RENE

European: E04H15/18



Publication number	Publication date	Application number	Application date
FR2883020 A3	20060915	FR20050002339	20050308

Priority:

FR20050002339 20050308

Probable Assignee:

IHLER THIERRY ARNAUD DENIS

Assignee(s): (std):

IHLER THIERRY ARNAUD DENIS

Inventor(s): (std):

IHLER THIERRY ARNAUD DENIS

35) Family number: 3833163 (DE3444645A1)

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Title: Production of a reinforcement

Abstract: The invention relates to the production of a reinforcement using concrete-reinforcement mats (10) with conical pot-shaped jointing sleeves (22) which are arranged with unit spacing, have a central through-bore (28), are placed on parallel longitudinal bars (24) of identical field elements (11, 13) with triangular lattice meshes (12), at the corner points (20) of the latter, and connect neighbouring field elements (11, 13) of a concrete-reinforcement mat (10) by means of a weld seam (26). In this arrangement, it is provided that, for connection, in each case adjacent concrete-reinforcement mats (10) are first of all made to overlap with their pot-shaped jointing sleeves (22) nearest to the edge, and are positioned one upon the other in a positively locking manner. The concrete-reinforcement mats are retained in this position by means of retaining elements, e.g. retaining bolts, retaining bars (34) or steel anchors (36), which are pushed through the aligned through-bores (28).

Classifications:

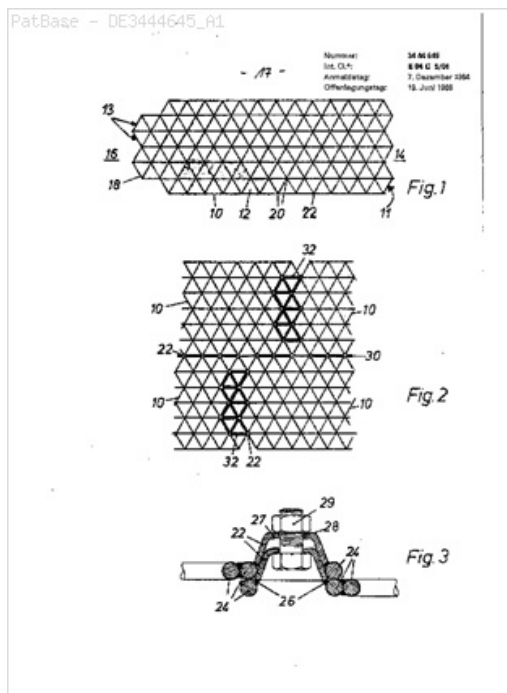
International (IPC 8-9): E04C5/06 E04C5/16 (Advanced/Invention);

E04C5/01 E04C5/16 (Core/Invention)

International (IPC 1-7): E04C5/01 E04C5/04 E04C5/16

CPC: E04C5/064 E04C5/168

European: E04C5/06C1 E04C5/16C



Family:

Publication number	Publication date	Application number	Application date
DE3444645 A1	19860619	DE19843444645	19841207
DE3444645 C2	19890608	DE19843444645	19841207

Priority:

DE19843444645 19841207

Probable Assignee: HOCHTEMPERATUR REAKTORBAU GMBH

Assignee(s): (std): HOCHTEMPERATUR REAKTORBAU GMBH

Assignee(s): HOCHTEMPERATUR REAKTORBAU GMBH 4600 DORTMUND DE

Inventor(s): (std): BASYOUNI YEHIA MOHAMED SHAFIK ; FROENING HELMUT DR ING DR

Inventor(s): FROENING HELMUT DR ING DR 6800 MANNHEIM DE ; SHAFIK DIPL ING BASYOUNI YEHIA MOHAMED ; BASYOUNI YEHIA MOHAMED SHAFIK DIPL ING ; BASYOUNI YEHIA MOHAMED SHAFIK DIPL ING 7000 STUTTG

36) Family number: 16412171 (DE7517463U)

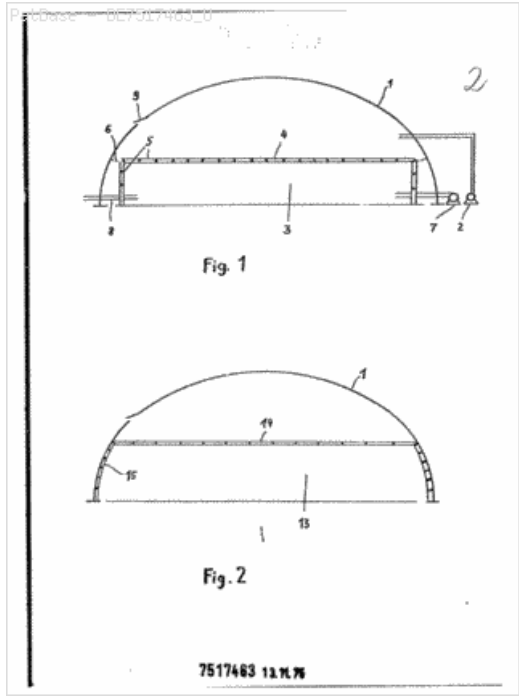
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Title: DEMONTIERBARES HALLENGEBILDE FUER DIE ZUCHT UND HALTUNG VON TIEREN DISMOUNTABLE HALLENGE IMAGE FOR THE BREEDING AND KEEPING OF ANIMALS (Machine translation)

Abstract: Source: DE7517463U [DE] (Claim 1) Schutzansprueche 1.) Demontierbare Hallengebilde fuer die Zucht und Haltung von Tieren mit einem klimatisierbaren Innenraum, in dem die Tierkaefige angeordnet werden koennen, d a d u r c h g e k e n n z e i c h n e t, dass die Halle als aeussere Huelle (1) eine Traglufthalle hat, in der sich der klimatisierbare Innenraum (3) als gesonderte Traglufthalle mit einem gegenueber dem restlichen Hallenraum erhoehten Luftinnendruck befindet, die jedoch eine im wesentlichen durchgehend ebene Decke (4) hat. 2.

Machine translation: (Claim 1) Protection of rights 1) Removable Hall formations for the raising and breeding of animals with a climate-controlled interior, where the animal cages can be arranged dadurch gekennzeichnet, dass die Halle als the outer shell (1) has an air dome, in which the air-conditioned interior (3) as a separate air dome with respect to the rest room indoor air pressure is increased, but which has a substantially continuous flat ceiling (4). Second

Classifications:
International (IPC 8-9): E04H5/08 (Advanced/Invention);
E04H5/00 (Core/Invention)
International (IPC 1-7): E04H5/08



Family:

Publication number	Publication date	Application number	Application date
DE7517463 U	19751113	DE19750017463U	19750602

Priority:

DE19750017463U 19750602

Probable Assignee: CERES AGRARTREUHAND U BERATU

Assignee(s): (std): CERES AGRARTREUHAND U BERATU

Assignee(s): CERES AGRARTREUHAND UND BERATUNGSGES MBH AND CO KG

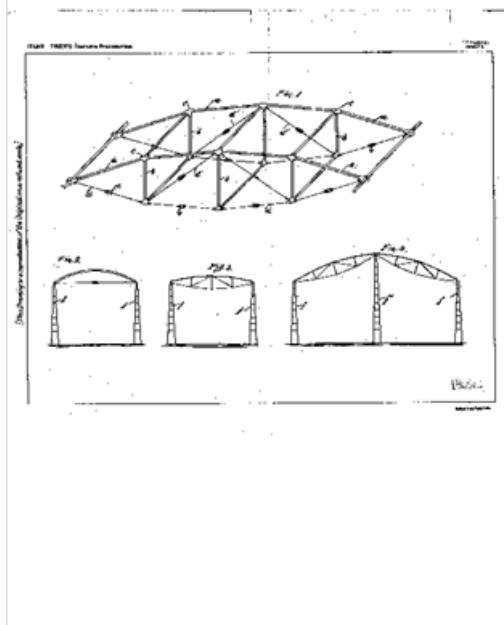
37) Family number: 25569176 (GB122846A) © PatBase

Title: IMPROVEMENTS IN OR RELATING TO LIGHT METAL STRUCTURES.

Abstract: 122,846. Pesce, G., Jan. 25, 1918, [Convention date]. Void [Published under Sect. 91 of the Act]. Jib cranes.- Girders or trusses, Fig. 1, applicable, to the construction of cranes, are formed of tubular compression parts a, b connected by couplings c, and ties d, d<1> such as wires, rods, or cables tightened by turnbuckles e, or tubular elements such as a, b. The compression members may be stiffened by stretched wires or cables. The joints or couplings for the tubular elements may be screwed, or may consist of jointed steel hemispheres s, Fig. 16, which receive spherical heads on the compression members. Adjacent trusses may be connected by lugs m and crossbars n, Fig. 15.

Classifications:

International (IPC 1-7): E04B1/342 E04B7/08 E04C3/00 E04H6/44

**Family:**

Publication number	Publication date	Application number	Application date
FR495089 A	19190927		00000000
GB122846 A	00000000	GB19190001916	19190125

Probable Assignee: GASTONE PESCE
Assignee(s): (std): GASTONE PESCE
Inventor(s): (std): GASTONE PESCE ; PESCE GASTONE

38) Family number: 43428177 (ES2320061B)

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Title: TOLVA-CABINA PARA ALMACENAMIENTO Y CARGA EN CAMIONES DE CENIZAS VOLANTES HOPPER-CABIN FOR STORAGE AND LOAD TRUCKS FLY ASH (Machine translation)

Abstract: Source: ES2320061B [ES] Tolva - cabina para almacenamiento y carga en camiones de cenizas volantes. La tolva - cabina esta constituida por una estructura (12) con un cerramiento de chapa (12') determinando un recinto a cuyo interior puede acceder un camion para ser cargado de cenizas volantes previamente almacenadas en una tolva de almacenamiento superior (13), en cuya parte inferior define compartimentos (17) en los que van acopladas respectivas mangueras retractiles (18) con bocas de descarga (18') que se posicionan en el interior de la caja del camion, a mayor o menor altura, para descarga de las cenizas desde la tolva (13), sin producir polvo ni esparcidos externos. El recinto incluye lateralmente una sala de control desde la que se ve el interior del recinto y se gobierna todo el funcionamiento. La tolva - cabina esta prevista para poder cargar camiones de cenizas volantes originadas en la combustion de biomasa para obtener energia electrica.

Machine translation: Hopper - cabin for storage and truck loading of fly ash. Hopper - cabin is made up of a structure (12) with a closing plate (12 ') determining an enclosure inside which you can access for a truck loaded with fly ash previously stored in an overhead storage bin (13), whose bottom defined compartments (17) in which they are attached respective retractable hose (18) with discharge outlet (18 ') which are positioned inside the box truck, a lower or higher to download the ashes from the hopper (13), without producing dust and external scattered. The site includes laterally from a control room which is inside the enclosure and governs the whole operation. The hopper - cab is provided to load trucks fly ash originating from the combustion of biomass for electric power.

Classifications:
International (IPC 8-9): B65G69/18 E04H7/30 (Advanced/Invention)
CPC: B65G69/182 E04H7/30
European: B65G69/18B2 E04H7/30

ES 2320 061 A1

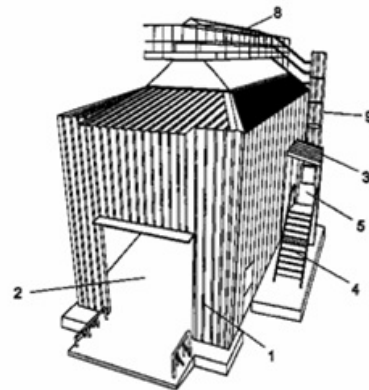


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
ES2320061 AA	20090518	ES20060001410	20060529
ES2320061 BA	20100212	ES20060001410	20060529

Priority:

ES20060001410 20060529

Probable Assignee: DISENOS Y PROYECTOS TECNICOS S**Assignee(s):** (std): DISENOS Y PROYECTOS TECNICOS S**Assignee(s):** DISENOS Y PROYECTOS TECNICOS S A ; DISENOS Y PROYECTOS TECNICOS SA**Inventor(s):** (std): RAMIREZ DIAZ JOSE ; CANTADOR LUCENO JUAN LUIS**Inventor(s):** JUAN LUIS CANTADOR LUCENO ; JOSE RAMIREZ DIAZ**39) Family number: 54183179** (US2015211230A)

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Title: MODULE FOR BUILDING FACADES AND METHOD OF USE IN CONSTRUCTION

Abstract: Module for building facades for any building or civil-engineering project with planar or curved surfaces of two or more walls of reinforced mortar or concrete, which comprises walls; connectors constructed in situ, or prefabricated with drills; connector and wall reinforcements; leaf supports with hollow cylinders or prisms, and a solid support with drills. Use of the building module involves placing the double-leaf or solid support; placing reinforcements for each wall alongside each face of the support; inserting the connector reinforcements into the hollow cylinders or prisms, or into drills; folding and overlapping the reinforcement pins; forming connectors and walls, casting concrete or mortar and packing hollow cylinders and prisms, or drills, and on both faces of said supports. Alternative methods involve the use of prefabricated connectors; application in cases without access to one face, against an embankment, and in facade reinforcements.

Classifications:

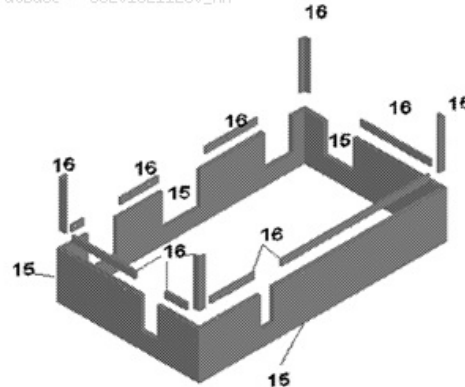
International (IPC 8-9): E02D29/02 E04B E04B1/16 E04B1/35 E04B2/84 E04B2/86 E04B2/88 E04G11/00 E04G11/18 E04G17/075 E04G23/02 (Advanced/Invention);

E04B (Subclass/Invention)

CPC: E02D29/02 E04G23/0218 E04G23/0296 E04B2/842 E04B2/845 E04B5/36

US: 52/426 52/742.14

PatBase - US2015211230_AA

**Family:**

Publication number	Publication date	Application number	Application date
EP2816166 A1	20141224	EP20110878219	20111220
EP2816166 A4	20160120	EP20110878219	20111220
IL233257 A0	20140831	IL20110233257	20111220
IN06038DN2014 A	20160520	IN2014DN06038	20140718
JP2015504989 T2	20150216	JP20140548112T	20111220

US2015211230 AA	20150730	US20110367812	20111220
WO13093128 A1	20130627	WO2011ES70888	20111220

Priority:

WO2011ES70888 20111220

Probable Assignee: ELES DOPA S L

Assignee(s): (std): ELES DOPA S L ; JIMENEZ HORWITZ MARGARITA

Assignee(s): ELES DOPA SL

Inventor(s): (std): JIMENEZ HORWITZ MARGARITA

Inventor(s): JIMANEZ HORWITZ MARGARITA

Agent(s): URIZAR ANASAGASTI JOSE ANTONIO; MOLINERO ZOFIO FELIX

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

40) Family number: 639183 (FR1558565A)

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Abstract: Source: FR1558565A [FR] (Claim 1) 1. On relie temporairement et independamment les extremités de l'une ou de plusieurs éléments tubulaires a l'une des pièces de serrage, chacun par un organe de maintien individuel qui n'empêche pas le montage ulterieur de la deuxième pièce de serrage du dispositif, les extremités des;autres éléments tubulaires étant ensuite amenées dans leurs positions appropriées par rapport a la première pièce de serrage et la deuxième pièce de serrage étant finalement fixée a la première pour serrer les extremités des éléments tubulaires et compléter ainsi le n ud;

Machine translation: (Claim 1) 1. It connects the ends temporarily and independently of one or more tubular elements has one of the clamping parts, each by an individual holding member which does not preclude the subsequent assembly of the second piece clamping device, the of extremities; other tubular elements being then brought in their appropriate positions relative to the first clamping piece and the second clamping piece being finally fixed at the first order to clamp the ends of tubular elements and thus complete the node

Classifications:

International (IPC 8-9): E04B1/19 E04B1/58 (Advanced/Invention);

E04B1/19 E04B1/58 (Core/Invention)

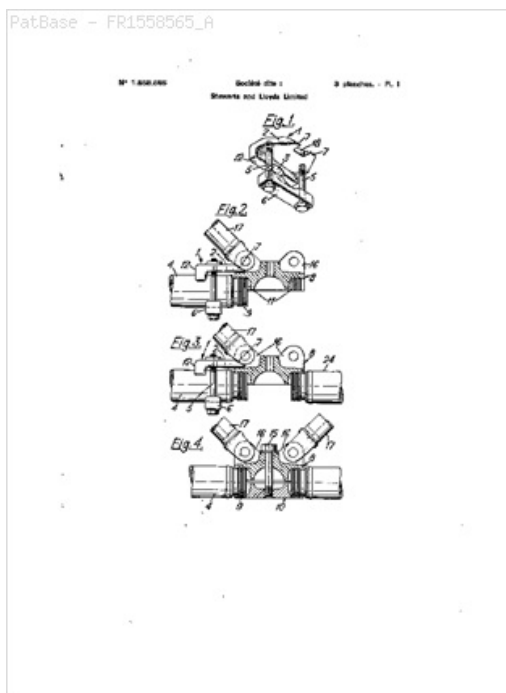
International (IPC 1-7): E04B1/19 E04B1/58

CPC: E04B1/19 E04B1/58 E04B2001/1927 E04B2001/1957

E04B2001/1966 E04B2001/1984 E04B2001/1993

European: E04B1/19 E04B1/58 P04B1/19C1 P04B1/19D

P04B1/19D3 P04B1/19G2 P04B1/19K



Family:

Publication number	Publication date	Application number	Application date
BE709550 A	19680718		19680118
FR1558565 A	19690228	FR19680135959	19680115

Priority:

FR19680135959 19680115 BE19680709550 19680118

41) Family number: 28300187 (US2002154498A)

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Title: NON-LETHAL VISUAL BIRD DISPERSAL SYSTEM

Abstract: A non-lethal method and devices for dispersing nuisance birds from a preselected area. Such nuisance birds disrupt many activities such as the steady flow of safely moving aircraft on runways and adjacent thereto, growing crops on farmland, playing golf and the use of the interior of large open buildings. The present method utilizes a series of bright light sources that are positioned adjacent the area from which the birds are to be dispersed. The light sources are activated to produce one or more beams of bright light that are moved in such a manner to produce a pattern of bright light in the vicinity of the birds to be dispersed. This action causes the birds to become sufficiently startled and disoriented so as to disperse these nuisance birds from the area to be cleared.

Classifications:

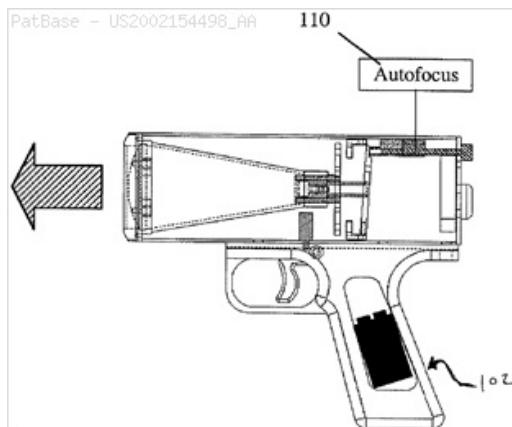
International (IPC 8-9): A45B3/14 E04H9/16 F21K99/00 F21L4/00 F21L4/02 F21V19/02 F21V21/30 F21V33/00 F41A33/02 F41B15/00 F41G1/34 F41H13/00 F41H5/08 H01S3/00 H01S5/022 (Advanced/Invention); F21W111/06 F21Y101/02 (Advanced/Non-invention); A45B3/00 E04H9/16 F21K99/00 F21L4/00 F21V19/02 F21V21/14 F21V33/00 F41A33/00 F41B15/00 F41G1/00 F41H13/00 F41H5/00 H01S3/00 H01S5/00 (Core/Invention)

International (IPC 1-7): A45B3/14 E04H9/16 F21K7/00 F21L11/00 F21L4/00 F21V19/02 F21V21/08 F21V21/30 F21V8/00 F41B15/00 F41G1/34 H01S3/00

CPC: F41H5/08 F41H13/0087 Y10S362/802 F21Y2115/30 F41H13/0056 F21V33/0064 F41A33/02 F21Y2115/10 F21L2/00

European: F21L11/00 F21V33/00D F41A33/02 F41H13/00F10 F41H13/00F2B F41H5/08 R21Y101/02 R21Y101/02L

US: 116/22A 361/232 362/102 362/103 362/111 362/112 362/112P 362/184 362/187 362/187S 362/188 362/231 362/234 362/253 362/259 362/259S 362/268 362/276 362/285 362/294 362/32 362/35 362/553 362/555 362/8 362/802 385/93 42/1.16 42/100 42/114 52/101 89/1.11

**Family:**

Publication number	Publication date	Application number	Application date
AT338243 E	20060915	AT19960932932T	19960822
AU199874647 A1	19990531	AU19980074647	19980129
DE69636499 D1	20061012	DE19966036499	19960822
EP0846240 A1	19980610	EP19960932932	19960822
EP0846240 A4	20010103	EP19960932932	19960822
EP0846240 B1	20060830	EP19960932932	19960822
JP11513108 T2	19991109	JP19970510415T	19960822
US2002154498 AA	20021024	US20020175930	20020620
US5685636 A	19971111	US19950518230	19950823
US6007218 A	19991228	US19970967426	19971110
US6190022 BA	20010220	US19990409328	19990930
US6367943 BA	20020409	US20000545209	20000407
US6575597 BA	20030610	US20010785701	20010216
US6793364 BB	20040921	US20020175930	20020620
WO9708489 A1	19970306	WO1996US13556	19960822
WO9924755 A1	19990520	WO1998US01662	19980129

Priority:

US19950518230	19950823	WO1996US13556	19960822	US19970967426	19971110
WO1998US01662	19980129	US19990135231P	19990521	US19990409328	19990930
US20000545209	20000407	US20010785701	20010216	US20010300347P	20010622
US20020175930	20020620				

Probable Assignee: FOSTER MILLER INC

Assignee(s): (std): SCIENCE AND ENGINEERING ASSOCI ; SCIENCE AND ENGINEERING ASSOCIAT ; SCIENCE AND ENGINEERING ASSOCIATES INC

Assignee(s): SCIENCE AND ENGINEERING ASSOCIATES INC A STATE OF NEW MEXICO CORP ; FOSTER MILLER INC ; SCIENCE AND ENGINEERING ASSOCIATES ; UNITED STATES AIR FORCE BLDG ; UNITED STATES AIR FORCE ; WACHOVIA BANK NATIONAL ASSOCIATION

Inventor(s): (std): CRAMER ERIC J ; GERMAN D ; SAGGESE STEVEN J ; SPIELBUSCH BRIAN K ; TOCCI MICHAEL D ; YATES BRIAN C ; TOCCI NORA C ; STEVEN J SAGGESE ; MICHAEL D TOCCI ; JOHN D GERMAN ; GERMAN JOHN D ; ERIC J CRAMER ; BRIAN K SPIELBUSCH

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GM GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

42) Family number: 42135190 (ES2304114B)

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Title: PRELOSA PREFABRICADA DE HORMIGON PRETENSADO CON NERVIOS RIGIDIZADORES Y ELEMENTOS ALIGERANTES PARA SISTEMAS DE FORJADOS CON LOSA SUPERIOR DE HORMIGON VERTIDO EN OBRA PRELOSA PREFABRICATED PRESTRESSED CONCRETE WITH NERVES stiffeners and thinners ELEMENTS FOR SYSTEMS WITH FORGED SUPERIOR CONCRETE SLAB ON WORK RELEASE (Machine translation)

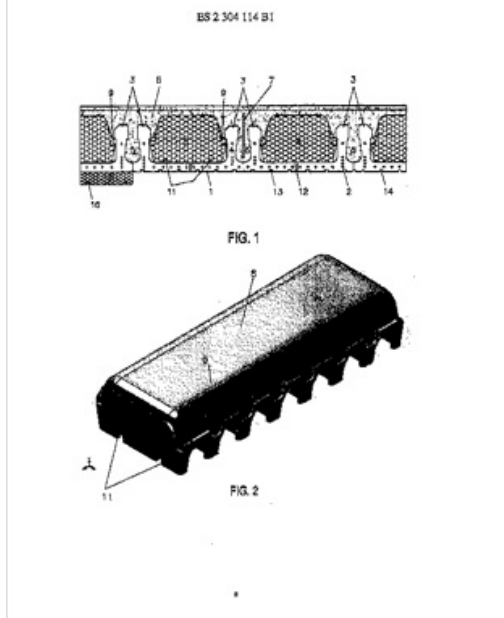
Abstract: Source: ES2304114B [ES] Prelosa prefabricada de hormigon pretensado con nervios rigidizadores y elementos aligerantes para sistemas de forjados con losa superior de hormigon vertido en obra. Prelosa de hormigon pretensado con nervios rigidizadores y elementos aligerantes para sistemas de forjados con losa superior de hormigon vertido en obra. La prelosa objeto de la invencion cumple con la norma UNE - EN 13747:2006, y presenta nervios con almas trapeciales para formar un hueco entre ellos con forma de gota de agua con el fin de garantizar una perfecta conexion con el hormigon vertido en obra y cuyos elementos aligerantes tienen un diseno reticular, a base de celdas abovedadas que permiten el correcto drenaje del agua y evitan el paso del hormigon vertido en obra. Dichas prelosas se manipulan mediante un sencillo procedimiento de acunamiento de una pieza resistente con los nervios centrales de las mismas.

Machine translation: Prelosa prefabricated prestressed concrete elements with stiffening ribs and thinners for systems with slab top slab of concrete poured on site. Prelosa Prestressed concrete elements with stiffening ribs and thinners for systems forged upper slab of concrete poured in situ. The object of the invention prelosa compliant UNE - EN 13747:2006, and has nerves souls wedge to form a gap between them with a drop of water in order to ensure a perfect connection with the concrete poured on site and thinners whose elements have a reticular design, based on domed cells that allow the proper drainage of water and prevent the passage of concrete poured in situ. Such precast slabs are manipulated using a simple procedure for cradling a resilient piece with the central nerves thereof.

Classifications:

International (IPC 8-9): E04B5/04 E04B5/26 E04C1/00 E04G11/46 (Advanced/Invention)

CPC: E04B5/04 E04B5/26 E04C1/00 E04G11/46

**Family:**

Publication number	Publication date	Application number	Application date
ES2304114 AA	20080901	ES20070003350	20071218
ES2304114 BA	20090916	ES20070003350	20071218

Priority:

ES20070003350 20071218

Probable Assignee:

ZENET PREFABRICADOS S L

Assignee(s): (std):

ZENET PREFABRICADOS S L

Assignee(s):

ZENET PREFABRICADOS SL

Inventor(s): (std):

ABAD HUBER CESAR

Inventor(s):

CESAR ABAD HUBER

43) Family number: 33972213 (US7143550B)

© PatBase

Title: DOUBLE NETWORK RETICULATED FRAME STRUCTURE

Abstract: Structural system and method are disclosed for building a simpler and more efficient double layer reticulated frame structure. The double layer reticulated frame structure includes an internal network that has a lower strut frequency than the external network. The lower strut frequency helps reduce the overall weight, cost, and construction time of the structure. Diagonal struts space apart and connect the internal and external networks. The diagonal struts are connected in an alternating manner such that no more than two diagonal struts are connected together at any point.

Classifications:**International (IPC 8-9):** E04B7/08 (Advanced/Invention);

E04B7/08 (Core/Invention)

CPC: E04B1/32 E04B1/19 E04B1/1903 E04B1/1909 E04B1/3205

E04B2001/1936 E04B2001/3241 E04B2001/3247 E04B2001/3252

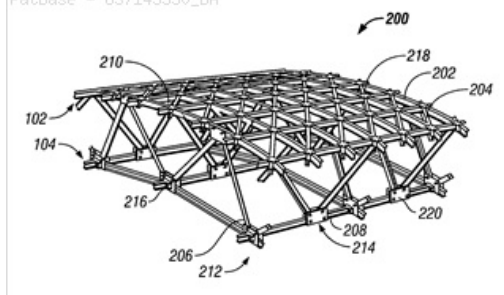
Y10T403/347

European: E04B1/19 E04B1/32 E04B1/32B P04B1/19B P04B1/19B2

P04B1/19C3 P04B1/32M1 P04B1/32M1B P04B1/32M2

US: 29/891.31 403/176 52/638 52/652.1 52/654.1 52/81.3

PatBase - US7143550_BA

**Family:**

Publication number	Publication date	Application number	Application date
US7143550 BA	20061205	US20020247046	20020919

Priority:

US20020247046 20020919

Probable Assignee: CST COVERS IND INC**Assignee(s): (std):** CONSERVATEK IND INC**Assignee(s):** CONSERVATEK INDUSTRIES INC ; CST COVERS IND INC ; CST POWER AND CONSTRUCTION INC ; CST IND INC ; ACF FINCO I LP ; BNP PARIBAS ; BNP PARIBAS ADMINISTRATIVE AGENT AS ; CONSERVATEK IND**Inventor(s): (std):** LOPEZ ALFONSO**Agent(s):** JENKENS AND GILCHRIST A PROFESSIONAL CORP

Title: Skylight system

Abstract: A modular skylight system comprises a continuous sill for supporting a lower edge of a plurality of panel frames, each pre-assembled and having a lower edge member interlocked on the sill. Each frame includes a pair of upwardly sloping side frame members adapted to be secured and interlocked to those of adjacent members and attached at their lower ends to the lower edge member. All of the frame members include an elongated glazing pocket for receiving an edge portion of a glazing panel and they also provide gutter structure for collecting liquid from the glazing panel and for carrying the liquid down to the sill for discharge therefrom.

Classifications:

International (IPC 8-9): E04D3/08 (Advanced/Invention);

E04D3/02 (Core/Invention)

International (IPC 1-7): E04B7/18

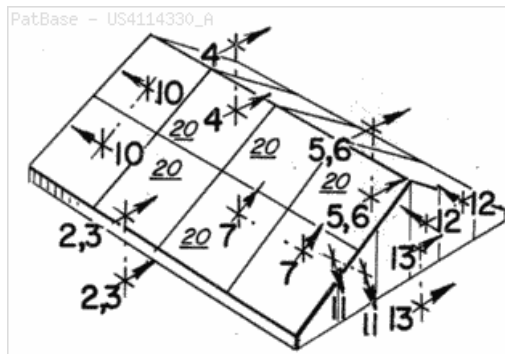
CPC: E04D3/08 E04D2003/0806 E04D2003/0818 E04D2003/0856

E04D2003/0868 E04D2003/0875 E04D2003/0881 E04D2003/0893

European: E04D3/08 P04D3/08P1 P04D3/08P3 P04D3/08R1B

P04D3/08S P04D3/08S1 P04D3/08S2 P04D3/08V

US: 52/200 52/460 52/461 52/463 52/467 52/764 52/772



Family:

Publication number	Publication date	Application number	Application date
US4114330 A	19780919	US19760738944	19761104

Priority:

US19760738944 19761104

Probable Assignee:

KAWNEER CO

Assignee(s): (std):

KAWNEER CO

Assignee(s):

KAWNEER COMPANY INC

Inventor(s): (std):

SUKOLICS RONALD D

Title: Hexagonal structures.

Abstract: 1. Structures formed by hexagonal cells made merely by unitary elements (2) comprising flat portions and making an angle of 120 degrees between them, the said elements constituting walls which are common to several adjacent cells, characterized in that the said elements (2) are formed of three plan portions of which a central portion makes with the two end portions, which are located in two parallel planes, angles of 120 degrees and that the said elements are located in such a manner as to form angles of 120 degrees between them, the end edges resting on the edges limiting the central portion of an adjacent element.

Classifications:

International (IPC 8-9): E02D17/20 E02D29/02 E04B2/36 E04C1/39

E04C2/32 E04C2/36 (Advanced/Invention);

E02D17/20 E02D29/02 E04B2/28 E04C1/00 E04C2/32

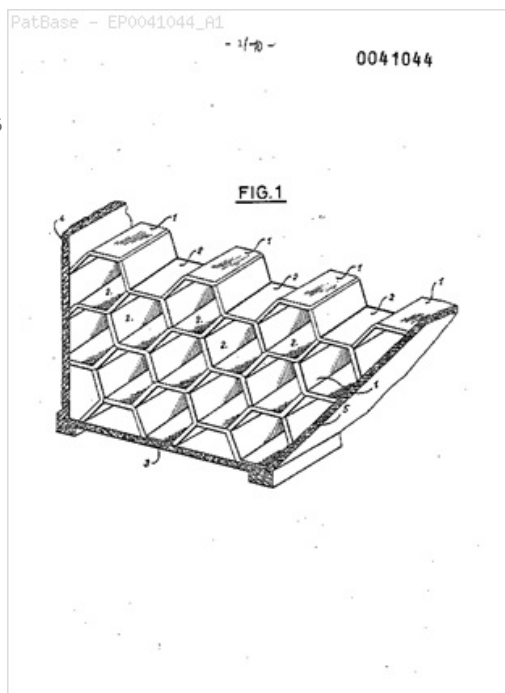
E04C2/34 (Core/Invention)

International (IPC 1-7): A47B73/00 E02D17/20 E02D29/02 E04B2/36

E04C1/39 E04C2/40

CPC: E04C1/395 E04C2/365 E04C1/39 E04C2/32

European: E04C1/39 E04C1/39B E04C2/32 E04C2/36B



Family:

Publication number	Publication date	Application number	Application date
AT11066 E	19850115	AT19810810182T	19810512
CH636155 A	19830513	CH19800004089	19800527
DE3168015 D1	19850214	DE19813168015	19810512
EP0041044 A1	19811202	EP19810810182	19810512

Priority:

CH19800004089 19800527 CH19800006470 19800828 EP19810810182 19810512

Probable Assignee:

JENNI HERMANN

Assignee(s): (std):

JENNI HERMANN

Inventor(s): (std):

JENNI HERMANN

Inventor(s):

HERMANN JENNI

Designated states:

AT BE CH DE FR GB IT LI LU NL SE

46) Family number: 50527234 (AU2011213840A)

© PatBase

Title: Space frame connection node arrangement

Abstract: SPACE FRAME CONNECTION NODE ARRANGEMENT 5 There is disclosed herein a pinned connection of an end of an internodal framing member in a double layer grid space frame to a node of the frame via at least one framing member connection element at the node. The framing member end and the connection element define pin receiving holes in which a connection pin is received to connect the framing member to the node. The pin and the holes are cooperatively defined to have substantially a zero 10 clearance fit of the pin within all of the holes in the member and the connection element upon insertion of the pin into the holes. -38-

Classifications:

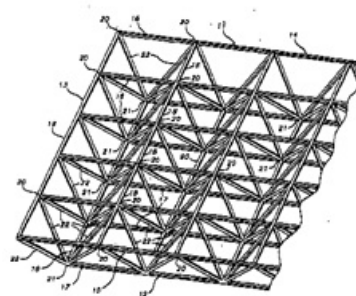
International (IPC 8-9): E04B7/08 E04H12/00 (Advanced/Invention)

PatBase - AU2011213840_AA

2011213840 23 Aug 2011

1/17

FIG.1



Family:

Publication number	Publication date	Application number	Application date
AU2011213840 AA	20110915	AU20110213840	20110823
AU2011213840 BB	20130307	AU20110213840	20110823

Priority:

US20060525721 20060922 AU20070300713 20070308 AU20110213840 20110823

Probable Assignee: GOSSAMER SPACE FRAMES

Assignee(s): (std): GOSSAMER SPACE FRAMES

Inventor(s): (std): CURTIS GARY N ; HACKBARTH DEAN R ; REYNOLDS GLENN A

Agent(s): FB RICE; FB RICE PTY LTD

47) Family number: 22984258 (FR1296117A)

© PatBase

Title: PANNEAU DE RECOUVREMENT POUR LES MURS ET PLAFONDS DES BATIMENTS PANEL FOR COVERING WALLS AND CEILING OF BUILDINGS (Machine translation)

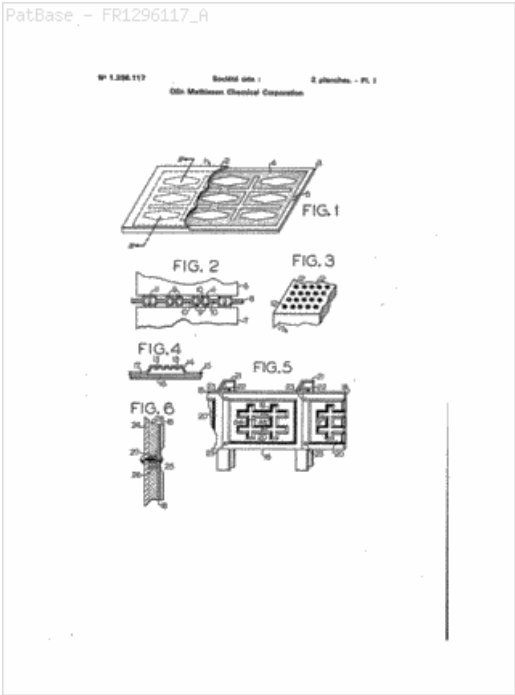
Abstract: Source: FR1296117A [FR] (Claim 1) 1. Elle comprend plusieurs panneaux ne supportant aucune charge et disposés cote a cote de façon a former pour ladite structure un recouvrement de mur, un dispositif de support pour maintenir lesdits panneaux en place sur la structure, et un dispositif de fixation pour fixer lesdits panneaux sur ledit dispositif de support, lesdits panneaux comprenant chacun plusieurs feuilles métalliques soudées par pression, ces feuilles comportant entre elles une zone non soudée, dont les différentes parties communiquent entre elles et qui s'étend suivant un dessin prédéterminé, les parois de cette zone non soudée étant séparées de manière a former sur au moins une face extérieure des feuilles des protuberances conformes audit dessin prédéterminé;

Machine translation: (Claim 1) 1. It includes several panels did not support any load and arranged side by side to form a cover for said structure wall, a support device for holding said panels in place on the structure and means for attaching said panels to said support device, said panels each comprising several sheets welded metal by pressure, the sheets having

between them a non-welded area, whose different parts communicate with each other and which extends in a predetermined pattern, the walls of this zone being non-welded separated so as to form at least one outer face sheets of protuberances consistent with this predetermined pattern;

Classifications:

International (IPC 8-9): E04F13/12 (Advanced/Invention);
E04F13/12 (Core/Invention)
International (IPC 1-7): E04F13/08
CPC: E04F13/12
European: E04F13/12



Family:

Publication number	Publication date	Application number	Application date
FR1296117 A	19620615	FR19610861212	19610509

Priority:

FR19610861212 19610509

Probable Assignee: OLIN MATHIESON
Assignee(s): (std): OLIN MATHIESON
Assignee(s): OLIN MATHIESON CHEMICAL CORP

48) Family number: 921259 (US3528164A)

© PatBase

Title: METHOD OF ASSEMBLING TUBULAR STRUCTURES

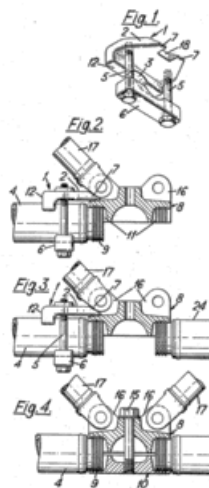
Abstract: ABSTRACT OF THE DISCLOSURE

A method of assembling a joint between the ends of a number of tubular steel members lying substantially in a common plane and forming part of a space frame, the joint being made by means of a pair of clamping elements between which the ends of the tubular members are gripped. In this method the ends of one or more of the tubular members are connected temporarily and independently to one of the clamping elements, each by an individual device which does not impede the subsequent fitting of the second clamping element, the ends of the remaining tubular members are brought into their correct positions in relation to the first clamping element, and finally the second clamping element is secured to the first to grip the ends of the tubular members and thus complete the joint.

Classifications:

International (IPC 8-9): E04B1/19 E04B1/58
F16B7/00 (Advanced/Invention);
E04B1/19 E04B1/58 F16B7/00 (Core/Invention)
International (IPC 1-7): B23Q19/00 B23Q3/00 F16B7/04
CPC: E04B1/58 E04B1/19 E04B2001/1927 E04B2001/1957
E04B2001/1966 E04B2001/1978 E04B2001/1984 E04B2001/1993
F16B7/00 Y10T29/49902 Y10T29/49948 Y10T403/443 Y10T403/4611
Y10T403/5781
European: E04B1/19 E04B1/58 F16B7/00 P04B1/19C1 P04B1/19D
P04B1/19D3 P04B1/19F P04B1/19G2 P04B1/19K
US: 29/468 29/525.02 294/680 403/218 403/234 403/312

Sept. 15, 1970 P. J. PACKMAN ET AL 3,528,164
 METHOD OF ASSEMBLING TUBULAR STRUCTURES
 Filed Feb. 5, 1969 3 Sheets-Sheet 1

**Family:**

Publication number	Publication date	Application number	Application date
US3528164 A	19700915	US19680703088	19680205

Priority:

US19680703088 19680205

Probable Assignee: STEWARTS AND LLOYDS LTD
Assignee(s): (std): STEWARTS AND LLOYDS LTD
Inventor(s): (std): PACKMAN PERCIVAL J ; WALKER HUBERT B
Inventor(s): HUBERT B WALKER ; PERCIVAL J PACKMAN

49) Family number: 28104293 (US2001023665A)

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Title: STEAM GENERATOR AND PROCESS FOR ASSEMBLING IT

Abstract: During the assembly of a steam generator, the boiler columns are assembled, and, in parallel, headers and other wall boxes are assembled on booms of the boiler columns, so that when the boiler columns are completed, the headers and wall boxes are also finally assembled. Next, the peripheral roof section is assembled onto the boiler columns, and the vertical steam generator-containing walls are suspended from the peripheral roof section. Parallel to this, the inner roof section is constructed and the convection heating surfaces are successively mounted to the inner roof section and lifted upward from the base. The assembled inner roof section and convection heating surfaces are then lifted to the height of the peripheral roof section, and the two parts of the roof are connected. Finally, the furnace walls having a vertical or inclined tube arrangement, including the furnace hopper, are assembled.

Classifications:

International (IPC 8-9): B23P19/04 F22B17/02 F22B27/00

F22B33/00 F22B37/24 F22B9/00 (Advanced/Invention);

F22B9/00 (Advanced/Non-invention);

F22B37/00 F22B9/00 (Core/Invention)

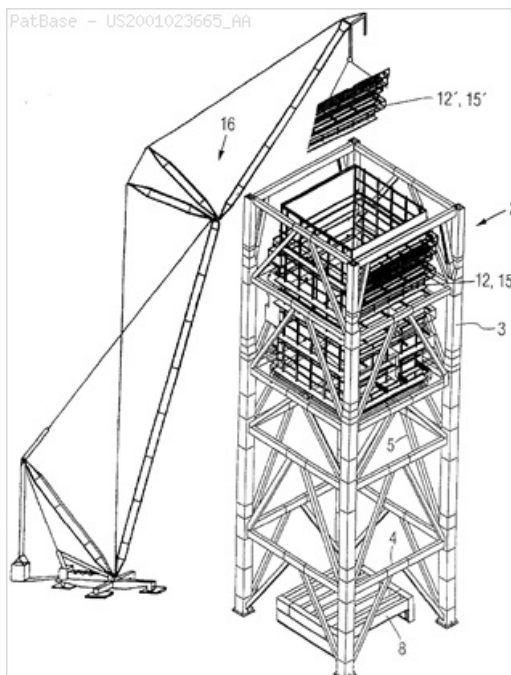
International (IPC 1-7): B23P15/00 E04H12/08 E04H5/02 F22B

F22B17/02 F22B37/00 F22B37/24 F22B9/00

CPC: Y10T29/4935 Y10T29/49387 F22B37/244

European: F22B37/24D

US: 122/51 122/510 122/511 122/512 165/157 165/158 165/162
 29/890.03 29/890.051



Family:

Publication number	Publication date	Application number	Application date
AT284508 E	20041215	AT20010105759T	20010308
AU200129839 A1	20010927	AU20010029839	20010323
AU200129839 A5	20010927	AU20010029839D	20010323
AU772251 B2	20040422	AU20010029839	20010323
CN1165706 C	20040908	CN20011011764	20010323
CN1316614 A	20011010	CN20011011764	20010323
DE10014758 A1	20011004	DE20001014758	20000324
DE10014758 C2	20031009	DE20001014758	20000324
DE50104734 D1	20050113	DE20015004734	20010308
EP1136754 A2	20010926	EP20010105759	20010308
EP1136754 A3	20021009	EP20010105759	20010308
EP1136754 B1	20041208	EP20010105759	20010308
ES2234719 T3	20050701	ES20010105759T	20010308
HR20010222 A2	20021031	HR20010000222	20010322
HR20010222 B1	20051031	HR20010000222	20010322
IN00163CA2001 A	20051111	IN2001CA00163	20010320
IN200490 B	00000000	IN2001CA00163	20010320
KR100470425 B1	20050205	KR20010015163	20010323
KR20010090529 A	20011018	KR20010015163	20010323
ME01586 B	20060116	ME20010000223	20010308
PL196279 B1	20071231	PL20010346603	20010322
PL346603 A1	20011008	PL20010346603	20010322
TR200100795 A2	20011022	TR20010000795	20010322
TR200100795 A3	20011022	TR20010000795	20010322
US2001023665 AA	20010927	US20010815736	20010323
US6588104 BB	20030708	US20010815736	20010323
YU22301 A	20041125	YU20010000223	20010323
YU49432 B	20060116	YU20010000223	20010323

Priority:

DE20001014758 20000324 DE20015004734 20010308 EP20010105759 20010308

Probable Assignee: GENERAL ELECTRIC TECHNOLOGY GMBH

Assignee(s): (std): ABSTHOM POWER BOILER REPAIRING ; ABSTHOM POWER BOILER REPAIRING AG ; ALSTOM POWER BOILER GMBH ; ALSTOM POWER BOILER SERVICE GM ; HEIDRICH JURGEN ; ALSTOM SWITZERLAND LTD ; ALSTOM POWER BOILER SERVICE GMBH ; GENERAL ELECTRIC TECHNOLOGY GMBH

Assignee(s): ALSTOM ZWEITE VERWALTUNGS GMBH ; ALSTOM TECHNOLOGY LTD ; WELLS FARGO BUSINESS CREDIT INC ; ALSTOM (SWITZERLAND) LTD ; ALSTOM LTD

Inventor(s): (std): HAIDERIH JURGEN ; HEIDRICH JUERGEN ; HEIDRICH JURGEN ; JUERGEN HEIDRICH ; JURGEN HAIDERIH ; JURGEN HEIDRICH

Agent(s): PHILLIPS ORMONDE FITZPATRICK; WATERMARK PATENT AND TRADE MARKS ATTORNEYS

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

50) Family number: 3874302 (GB1403089A)

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Title: CAP FOR USE WITH A DUCT TERMINATOR

Abstract: 1403089 Caps for duct terminators FORMEX MFG INC 31 Aug 1972 40490/72 Headings E1G and E1W [Also in Division F2] A cap 130, having a cylindrical skirt 132, radially extending locking lugs 134 at one end of the skirt and a domed end wall 140 at the other, is provided on the end wall with a boss 142 adapted to receive a wrench. The cap serves as a releasable closure for a duct terminator arrangement in a concrete switch room wall. The duct terminator module is provided with locking lugs corresponding to those on the cap but may otherwise be as described and claimed in Specification 1315835.

Classifications:

International (IPC 8-9): F16J13/12 F16L5/00 F16L55/10
H02G9/10 (Advanced/Invention);
F16J13/00 F16L5/00 F16L55/10 H02G9/00 (Core/Invention)

International (IPC 1-7): E04C1/39 F16J13/12

CPC: F16J13/12 F16L5/00 F16L55/10 H02G9/10

European: F16J13/12 F16L5/00 F16L55/10 H02G9/10

Publication number	Publication date	Application number	Application date
GB1403089 A	19750813	GB19720040490	19720831

GB19720040490 19720831

FORMEX MFG INC

FORMEX MFG INC

Abstract: The present disclosure is related to a process to generate a building block using among its components, the product of the transformation of urban solid waste, called Technosolid, and a polymer consisting of a self-crosslinkable acrylic styrene resin, comprising the following stages: a) raw material reception; b) Mixing the Tecnosolid and the polymer; c) addition and homogenization of the rest of the raw materials: gravel, cement, sand, and water; d) mold filling; e) vibro-compaction; f) demolding; g) Curing in a humidity chamber with a water mist system; h) temporary storage of the blocks.

International (IPC 8-9): B29B17/00 E04C1/40 (Advanced/Invention)

PatBase - MX2016016702_A1



Publication number	Publication date	Application number	Application date
MX2016016702 A1	20180614	MX20160016702	20161215

Priority:

MX20160016702 20161215

Probable Assignee: INAMBTEC S A DE C V

Assignee(s): (std): INAMBTEC S A DE C V

Assignee(s): INAMBTEC DE CV SA

Inventor(s): (std): CARLOS AUGUSTO REYES VILLEGAS ; HARI SIMRAN SINGH PALACIOS GARAY ; JOSE LUIS LOAIZA YANEZ ; MONICA CASAS GARRIDO ; RICARDO ENRIQUE ESTRADA MENA

52) Family number: 4898308 (US5079887A)

© PatBase

Title: Suspended rigid ceiling volume reduction system

Abstract: The invention is directed to a ceiling which is supported within a closure structure such as a dome. The edge of the ceiling is sealed to the closure structure by a non-permeable flexible fabric. Both the ceiling and the edge seal are airtight to prevent the passage of gases from a region below the ceiling within the closure structure to a region above the ceiling within the closure structure.

Classifications:

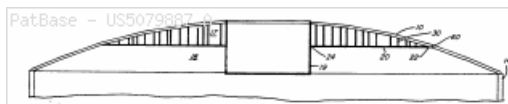
International (IPC 8-9): E04B9/00 E04B9/22 (Advanced/Invention)

International (IPC 1-7): E04B9/18

CPC: E04B9/00 E04B9/22

European: E04B9/00 E04B9/22

US: 52/22 52/488 52/506.1 52/63 52/80.1 52/81 52/81.4



Family:

Publication number	Publication date	Application number	Application date
US5079887 A	19920114	US19900591395	19901001
US5315801 A	19940531	US19910710159	19910604

Priority:

US19900591395 19901001 US19910710159 19910604

Probable Assignee: CONSERVATEK IND INC

Assignee(s): (std): CONSERVATEK IND INC

Assignee(s): CONSERVATEK IND INC A TX CORP ; CONSERVATEK INDUSTRIES INC ; CONSERVATEK IND

Inventor(s): (std): ANDERSON RICHARD F ; FERRY ROBERT L ; KISSELL JOHN R

53) Family number: 9780310 (SU1661335A)

© PatBase

Title: METHOD OF CONSTRUCTING FERROCONCRETE VAULTS ON PNEUMATIC FORMWORK

Abstract: Source: SU1661335A **Machine translation:** Invention relates to the field of construction. Purpose - labor cost reduction, simplification of technology, improving safety. Squaring method lies in the fact that during the construction of precast-monolithic domes with internal ribs on inflated forms initially placed on inflated forms one hinge-sectional formwork edges 2. In the manufacture of its overlapping plate 4 prefabricated concrete elements opirajut with a gap between two ribs on the formwork. Reinforcing cage 6 ribs pivotally mounted within the casing-sectional ribs 2, has solid top 5 and fittings installed overlapping separate bottom reinforcement rods 7. If bent on inflated forms 1 7 bottom reinforcement can reduce its overall length and prevents bending and forming edges. Concreting is carried out through the gaps after mounting plate 4 elements together. 1 yl.

Classifications:

International (IPC 8-9): E04G11/04 (Advanced/Invention);

E04G11/00 (Core/Invention)

International (IPC 1-7): E04G11/04

**Family:**

Publication number	Publication date	Application number	Application date
SU1661335 A1	19910707	SU19884623522	19881226

Priority:

SU19884623522 19881226

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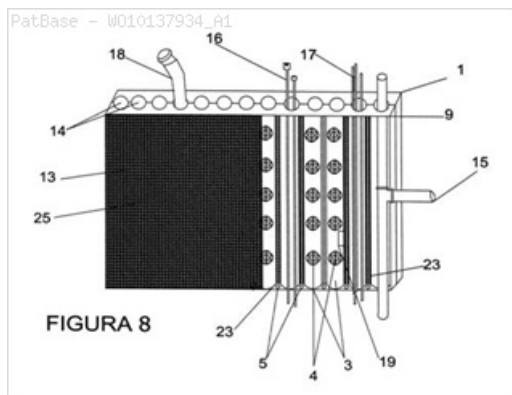
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Title: THERMAL, ANTI-ACOUSTIC AND CONDUCTOR MODULE FOR GENERAL HOUSEHOLD UTILITIES

Abstract: The present invention relates to an anti-acoustic thermal conductor module, made up of: at least two panels A and B, which can be made from any material, with different sizes and dimensions. When the panels A and B are coupled together, a module is formed in which, since the two surfaces (2, 10) thereof are adjoining, the channels (3, 11) of the two surfaces (2, 10) form a through conduit (14) in which any type of material or utility can be inserted, such as water or gas pipes (15), telecommunication cables (16) such as TV, computer cables, telephone, heating or air-conditioning (18). Panel A has thermoacoustic chambers (8) which can be filled with any anti-acoustic thermal material or else be left unfilled. The front surface (13) of panel B can have industrial finishes (25) or a mesh with a surface to which any material such as plaster or cement can be adhered depending on the finish the user requires.

Classifications:

International (IPC 8-9): E04B1/86 E04C2/52 (Advanced/Invention)
CPC: E04C2/521 B32B3/06 B32B3/30 B32B5/02 B32B5/18 B32B5/24 B32B7/02 B32B7/08 B32B11/04 B32B21/04 B32B27/06 B32B2266/0278 B32B2307/102 B32B2307/304 B32B2419/00 B32B2607/00 E04B1/86 E04B2001/8461 E04B2001/8476 E04B2001/848
European: B32B3/20 B32B3/30 B32B7/08 E04B1/86 E04C2/52A P04B1/84S2 P04B1/84S4 P04B1/84S4H

**Family:**

Publication number	Publication date	Application number	Application date
MX2011006481 A1	20110804	MX20110006481	20110616
WO10137934 A1	20101202	WO2009MX00048	20090525

Priority:

WO2009MX00048 20090525 MX20110006481 20110616

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Inventor(s): (std): GARCIA MIRAMONTES FORTINO
Agent(s): CRUZ CONSTANTINO RAFAEL
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

55) Family number: 7559334 (US3778941A) © PatBase

Title: BELL-LINER PROTECTOR

Abstract: The invention comprises a one piece, concrete, bell type grave liner or protector to be lowered into a grave to enclose a casket. The protector has notches cast in its lower corners, corner edges, or bottom edges to receive a hoisting cable, thereby making handling easy. The protector has a top designed to resist vertical loads, cave-in of the side walls, and a sluffing-off of earth when an excavation is made next to it. The top is also designed to receive saddles for supporting a second protector for double interment. The protector is useful in conjunction with a base for either single or double interment. All side walls are tapered, i.e., inclined downwardly and outwardly to keep the protector from being raised, or "floating" to the surface, when unstable soils become saturated through sprinkling, rain, or exceedingly high water table.

Classifications:

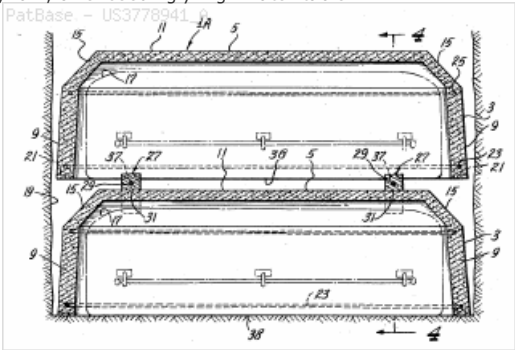
International (IPC 8-9): E04H13/00 (Advanced/Invention);
E04H13/00 (Core/Invention)

International (IPC 1-7): E04H13/00

CPC: E04H13/00

European: E04H13/00

US: 52/124 52/124.1 52/134



Title: FORMWORK FOR A CONSTRUCTION

Abstract: A woven formwork for construction of a structure is disclosed. The formwork comprises a three-dimensional woven fabric arranged so as to define one or more cavities into which an in-fill material can be inserted in order to construct said structure.

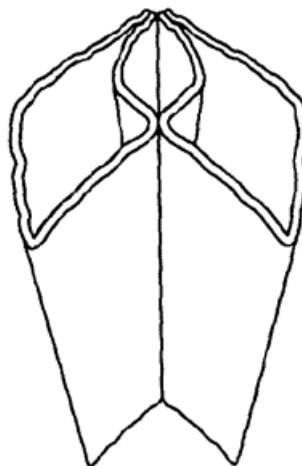
Classifications:

International (IPC 8-9): D03D11/02 E04G9/08 (Advanced/Invention)

CPC: D03D11/02 D03D25/005 D10B2403/0241

PatBase - WO13076464 A2

Fig. 1



Family:

Publication number	Publication date	Application number	Application date
GB201120071 A0	20120104	GB20110020071	20111121
WO13076464 A2	20130530	WO2012GB52851	20121116
WO13076464 A3	20131205	WO2012GB52851	20121116

Priority:

GB20110020071 20111121

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Assignee(s): UNIVERSITY OF ULSTER ; OF ULSTER UNIV

Inventor(s): (std): SODEN JULIE ALEXANDRA

Agent(s): CHIVA ANDREW PETER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: Method of manufacturing domes.

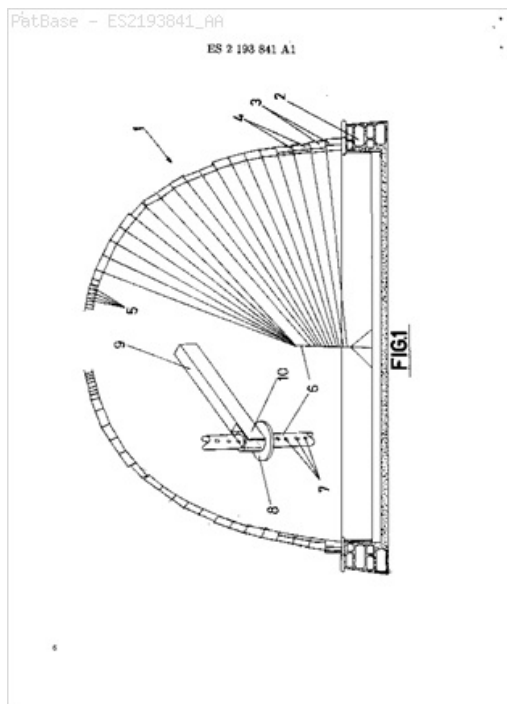
Abstract: A method is described for the manufacture of domes that eliminates the need to use any type of framework or other support to build it. The method involves the use of hollow bricks, laid on end to reduce the number of courses, up to a determined height at which they are laid on their side, avoiding the possibility of falls before the corresponding course is locked. Means are also described for implementation of the method, basically consisting of a tubular part placed as an axis or generatrix of revolution of the body of the dome, fitted with holes at a predetermined spacing, for the location of a disc that serves as a cap at the end of a cross beam which with its opposite end marks the position of successive courses.

Classifications:

International (IPC 8-9): E04B7/08 E04D13/03 (Advanced/Invention);

E04B7/08 E04D13/03 (Core/Invention)

International (IPC 1-7): E04B7/08 E04D13/03



Family:

Publication number	Publication date	Application number	Application date
ES2193841 AA	20031101	ES20010001482	20010627
ES2193841 BA	20050301	ES20010001482	20010627

Priority:

ES20010001482 20010627

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59) Family number: 34670370 (ES1053098Y)

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Title: ESTRUCTURA PARA CUBIERTAS DE PISCINAS Y SIMILARES.

Abstract: Source: ES1053098U [ES] 1. Estructura para cubiertas de piscinas y similares, caracterizada porque incluye un perfil tubular (8) de seccion cuadrada con aletas exteriores (10) en las diagonales y aletas ortogonales (11, 12) en los lados, rematadas en travesanos para formar canales de ubicacion de las cabezas (15) de bulones de anclaje (13), juntas de cierre (30, 33) y perfiles flexibles de anclaje (36, 37) de paneles de cerramiento (34, 35), existiendo en el interior del perfil tubular (8) una pareja de conductos cilindricos (14) de fijacion y paso de los referidos bulones de anclaje (13); conformando dicho perfil (8) los arcos de boveda (7) de forma general semicircular y cuyos extremos parejos se anclan a un mismo larguero lateral. (9) construido con el mismo perfil (8), formandose los tramos de cupula (1, 2, 3) al tender entre dichos arcos (7) los paneles de cerramiento (34, 35); habiendose previsto que dichos largueros (9) incluyan ruedas de deslizamiento (4) sobre unas guias longitudinales (5, 6) fijadas a lasolera, definiendo tramos de cubierta moviles (2, 3) que se yuxtaponen hasta alcanzar el extremo opuesto del recinto de que se trate, existiendo tambien tramos de cubierta fijos (1) conformados con el mismo perfil (8) en sus arcos de boveda (7'') y cuyos extremos se anclan a un larguero lateral (19) conectado a las guias longitudinales (5) y fijado al suelo, siendo susceptibles los diferentes tramos de boveda (1, 2, 3) de adoptar una posicion concentrica solapada o de recogimiento, y otra desplegada para cubrir la superficie deseada, con accionamiento manual o automatico.

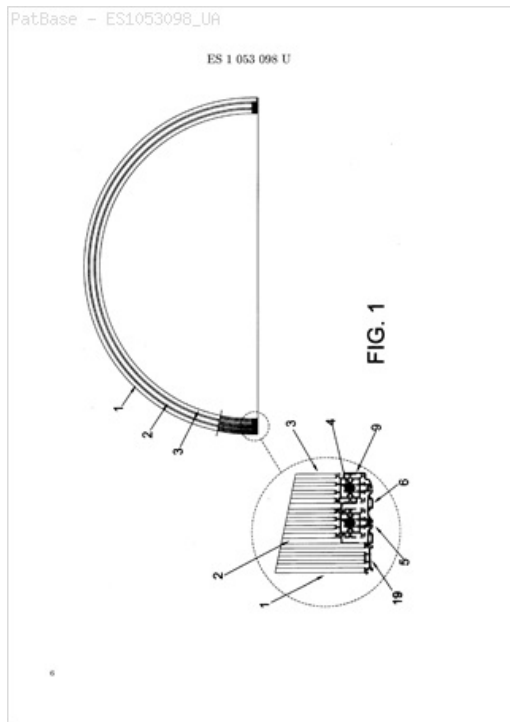
Machine translation: 1. Structure for swimming pool covers and the like, characterized in that it comprises a tubular profile (8) of square section with outer fins (10) in the diagonals and orthogonal fins (11, 12) on the sides, topped crosspieces to form channels of location of the heads (15) of anchor bolts (13), seals (30, 33) and profiles (36, 37) anchor flexible enclosure panels (34, 35), existing in the inside of the tubular profile (8) a pair of cylindrical ducts (14) and fixing step of said pins anchor (13); forming said profile (8) the dome (7) generally semicircular arches and whose ends are anchored to a same side evenly. (9) built with the same profile (8), forming the sections (1, 2, 3) to the dome route between said arches (7) and the enclosure panels (34, 35); it being provided that said beams (9) include sliding wheels (4) on longitudinal guides (5, 6) fixed to lasolera, defining sections (2, 3 mobile cover) which are juxtaposed to the opposite end of the enclosure in question, there are also sections of fixed cover (1) formed with the same profile (8) at its dome arcs (7'') and whose ends are anchored to a crossbar side (19) connected to the longitudinal guides (5) and fixed to the ground, being susceptible the different sections of vault (1, 2, 3) Adopt a Overlapping concentric position or recollection, and other deployed to cover the desired surface, with manual or automatic operation.

Classifications:

International (IPC 8-9): E04H4/08 (Advanced/Invention);

E04H4/00 (Core/Invention)

International (IPC 1-7): E04H4/08

**Family:**

Publication number	Publication date	Application number	Application date
ES1053098 UA	20030316	ES20020002053U	20020812
ES1053098 Y1	20030701	ES20020002053U	20020812

Priority:

ES20020002053U 20020812

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Assignee(s):

TECNISPAI SA

Inventor(s): (std):

BAYES TOMAS JUAN

60) Family number: 35373 (BE663678A)

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Abstract: Source: BE663678A [FR] (Claim 1) 1. Procède et dispositifs pour la confection de revêtements réguliers ou irréguliers de plafonds ou de murs, en vue d'obtenir des faux plafonds, voultée, grottes, coupôles et similaires, ou la réalisation d'éléments indépendants tels que cloisons, murs, etc. en matériau imitant le matériau naturel, caractérisée en ce que des matériaux absorbants ou poreux tels que toile, papier, paille, copeaux et autres sont imprégnés d'une substance liquide.. Épaisse ou pâteuse, puis fixée sur une trame ou un support constitué par du treillis métallique auquel on donne la forme voulue.

Machine translation: (Claim 1) 1. Method and apparatus for making coatings regular or irregular ceilings or walls in order to obtain false ceilings, vaulted caves, domes and the like, or the realization of independent elements such as partitions, walls, etc.. material in imitating the natural material, wherein the porous or absorbent materials as tile painting, paper, straw, shavings, and others are impregnated with a liquid substance.. Thick or pasty, then attached to a frame or bracket is by wire mesh which is given the desired shape.

Classifications:**International (IPC 8-9):** E04F13/02 (Advanced/Invention);

E04F13/02 (Core/Invention)

International (IPC 1-7): B05D7/00**CPC:** E04F13/02**European:** E04F13/02**Family:**

Publication number	Publication date	Application number	Application date
BE663678 A	19650901		19650510
LU41355 A	19630909		19620309

Priority:

LU19620041355 19620309

61) Family number: 60285373 (BR102013019100A)

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Title: DISPOSITIVO DE ILUMINACAO ZENITAL PARA COBERTURAS DE TELHAS ZIPADAS LIGHTING zenith DEVICE FOR ROOF TILES ziped (Machine translation)

Abstract: Source: BR102013019100A [PT] 1 RESUMO "DISPOSITIVO DE ILUMINACAO ZENITAL PARA COBERTURAS DE TELHAS ZIPADAS". A presente invencao refere-se a um dispositivo para iluminacao utilizado em coberturas com telhas, e,

mais especificamente a um dispositivo para 5 iluminacao que pode ser utilizado em coberturas formadas por telhas unidas por zipagem. O dispositivo de iluminacao zenital da presente invencao compreende uma parte de lente translucida (1) tendo porcoes de borda lateral (1a, 1b) conformadas para uniao com partes de zipagem (2, 3); sendo que cada uma das partes de zipagem (2, 3) e formada por um material perfilado, dobrado ou 10 extrusado, de modo que seu formato corresponda ao formato de porcoes de zipagem das telhas zipadas utilizadas para cobertura. /4 "DISPOSITIVO DE ILUMINACAO ZENITAL PARA COBERTURAS DE TELHAS ZI PADAS" Campo da Invencao A presente invencao refere-se a um dispositivo para iluminacao utilizado em coberturas com telhas, e, mais especificamente, a um dispositivo para iluminacao zenital que pode ser utilizado em coberturas formadas por telhas unidas por zipagem. Fundamentos da Invencao A construcao civil encontra um grande desafio associado a construcoes sustentaveis, onde as opcoes de projeto levam em conta a maximizacao de economia de agua e energia. Dentre as solucoes sustentaveis para a construcao civil estao as chamadas iluminacoes zenitais, que sao instaladas nas coberturas de edificacoes. Esse tipo de solucao esta baseada na transmissao da iluminacao natural para o interior dos ambientes. O aproveitamento da iluminacao natural nas edificacoes pode ser realizado de diversas maneiras, incluindo aberturas diretas, ou a utilizacao de paineis, janelas, ou abobadas de material transparente e translucido. Exemplos de tais solucoes podem ser vistos em diversas edificacoes ja existentes. No entanto, certos tipos de coberturas constituem um desafio para a instalacao desses tipos de solucoes. De fato, coberturas metalicas tornam mais dificil a instalacao de paineis e abobadas, e esta dificuldade e aumentada quando as coberturas sao montadas a partir de telhas metalicas zipadas. O processo de zipagem e um processo de instalacao e vedacao das coberturas, onde as telhas de material metalico sao fixas entre si por um processo de costura realizado "in loco". As caracteristicas desse tipo de instalacao de cobertura tornam praticamente inviavel a instalacao simplificada das solucoes de iluminacao zenital existentes. Objetivos da Invencao /4 Assim, e um dos objetivos da presente invencao proporcionar um dispositivo de iluminacao que possa ser instalado, de modo simples e seguro, em coberturas de telhas zipadas. E outro um dos objetivos da presente invencao proporcionar um dispositivo de iluminacao que se adapte facilmente as modulacoes de coberturas de telhas zipadas. E ainda outro dos objetivos da presente invencao proporcionar um dispositivo de iluminacao que apresente grande resistencia ao impacto. E mais um dos objetivos da presente invencao proporcionar um dispositivo de iluminacao que possua alta transmitancia de luz para o ambiente. Sumario da Invencao A presente invencao atinge os objetivos acima por meio de um dispositivo de iluminacao zenital para coberturas de telhas zipadas que compreende uma parte de lente translucida que tem porcoes de borda lateral conformadas para uniao com partes de zipagem. Cada uma das partes de zipagem e formada por um material perfilado, dobrado ou extrusado, de modo que seu formato corresponda ao formato de porcoes de zipagem das telhas zipadas utilizadas para cobertura. Na concretizacao preferida da presente invencao, a parte de lente translucida compreende um corpo com porcoes compatíveis com o sistema da cobertura, podendo ou nao ser conformada com a finalidade de enrijecer o sistema. A uniao entre as porcoes de borda lateral da parte de lente translucida e as partes de zipagem pode ser realizada atraves de fixacao mecanica, quimica, ou ainda, mecanica e quimica simultaneamente. Descricao Resumida dos Desenhos As figuras mostram: Figura 1 - A figura 1 ilustra uma vista em perspectiva de um dispositivo de iluminacao de acordo com uma concretizacao preferida da presente invencao; Figura 2 - A figura 2 ilustra uma vista em detalhe da uniao entre componentes do dispositivo de iluminacao de acordo com a concretizacao /4 preferida da presente invencao; e Figura 3 - A figura 3 ilustra uma vista esquematica mostrando as dimensoes relativas da parte de lente translucida do dispositivo de iluminacao de acordo com a concretizacao preferida da presente invencao. Descricao Detalhada da Invencao A presente invencao sera, a seguir, mais detalhadamente descrita com base nos exemplos de execucao representados nos desenhos. As figuras 1 a 3 ilustram uma concretizacao preferida do dispositivo de iluminacao zenital da presente invencao. O dispositivo de iluminacao compreende uma parte de lente translucida 1 cujas porcoes de borda lateral 1a, 1b sao conformadas para uniao com partes de zipagem 2, 3. A parte de lente translucida 1 pode ser fabricada a partir de qualquer material adequado, desde que a transmissao luminotecnica seja satisfatoria dentro do projeto de construcao que se deseja utilizar. Dentre os materiais adequados estao polimeros, silicatos, misturas destes e qualquer outro material adequado para este fim. Na concretizacao preferida mostrada nas figuras, a parte de lente translucida 1 compreende um corpo retangular com as porcoes de borda lateral 1a, 1b conformadas para uniao com as partes de zipagem 2, 3, e um relevo alongado central 1c formando cristas abobadas intermediadas por vales (vide figura 1). Cada uma das partes de zipagem 2, 3 e formada por um material perfilado, dobrado ou extrusado, de modo que seu formato corresponda ao formato das porcoes de zipagem das telhas metalicas utilizadas para coberturas de construcoes. Assim, o formato das partes de zipagem 2, 3 pode ser variado de acordo com o formato da zipagem das telhas metalicas da cobertura, adaptando-se perfeitamente a zipagem. Dentre os possiveis materiais que formam as partes de zipagem 2, 3 estao metais, polimeros ou qualquer outro material adequado para este fim. A uniao entre as porcoes de borda lateral 1a, 1b da parte de lente translucida 1 e das partes de zipagem 2, 3 pode ser feita atraves de fixacao /4 mecanica, quimica ou mecanica e quimica simultaneamente, desde que as propriedades de durabilidade, dilatacao e estanqueidade sejam atendidas. Dentre as formas de uniao possiveis estao: uniao colada (como mostrado na figura 2), uniao aparafusada, uniao rebitada, ou uniao soldada. 5 Entretanto, outras formas de uniao poderiam ser utilizadas. Particularmente, na uniao colada, pode ser utilizado um adesivo, como por exemplo um adesivo estrutural com propriedades de colagem e vedacao, ou ainda, qualquer adesivo compatível com a dilatacao termica do sistema. 10 A figura 3 mostra as dimensoes relativas da parte de lente translucida 1, sendo d a distancia entre as extremidades das porcoes de borda lateral 1a e 1b, h a altura das cristas abobadas, e L o comprimento da parte translucida. Tais dimensoes d, h e L podem ser variadas de modo que o dispositivo de iluminacao zenital da presente invencao se adeque a telhas de 15 cobertura de diferentes formatos e dimensoes. Adicionalmente, o dispositivo de iluminacao da presente invencao, preferencialmente, compreende dispositivos de seguranca (enrijecedores) - como reforcos e vedacoes em regioes especificas - para aumentar a rigidez nessas regioes, diminuir a possibilidade de infiltracoes e aumentar a seguranca contra 20 queda. Finalmente, deve ser entendido que as figuras ilustram uma concretizacao preferida do dispositivo de iluminacao zenital proposto pela presente invencao, sendo que o real escopo do objeto da invencao encontra-se definido nas reivindicacoes apensas. /1 REIVINDICACOES 1. Dispositivo de iluminacao zenital para coberturas de telhas zipadas caracterizado pelo fato de que compreende: uma parte de lente translucida (1) tendo porcoes de borda lateral (1a, 5 1b) conformadas para uniao com partes de zipagem (2, 3); onde cada uma das partes de zipagem (2, 3) e formada por um material perfilado, dobrado ou extrusado, de modo que seu formato corresponda ao formato de porcoes de zipagem das telhas zipadas utilizadas para cobertura. 2. Dispositivo, de acordo com a reivindicacao 1, caracterizado pelo 10 fato de que a parte de lente translucida (1) compreende um corpo retangular com porcoes de borda lateral (1a, 1b) conformadas para uniao com as partes de zipagem (2, 3), e um relevo alongado central (1c) que forma cristas abobadas intermediadas por vales. 3. Dispositivo, de acordo com a reivindicacao 1 ou 2, caracterizado 15 pelo fato de que a uniao entre as porcoes de borda lateral (1a, 1b) da parte de lente translucida (1) e as partes de zipagem (2, 3) se da atraves de fixacao mecanica. 4. Dispositivo, de acordo com a reivindicacao 1 ou 2, caracterizado pelo fato de que a uniao entre as porcoes de borda lateral (1a, 1b) da parte de 20 lente translucida (1) e as partes de zipagem (2, 3) se da atraves de fixacao quimica. 5. Dispositivo, de acordo com a reivindicacao 1 ou 2, caracterizado pelo fato de que a uniao entre as porcoes de borda lateral (1a, 1b) da parte de lente translucida (1) e as partes de zipagem (2, 3) se da atraves de fixacao 25 mecanica e quimica simultaneamente. 6. Dispositivo, de acordo com qualquer uma das reivindicacoes 1 a 5, caracterizado pelo fato de que adicionalmente compreende enrijecedores. /3 Fig. 1 /3 rv, Fig. 2 /3 Fig. 3 /1 RESUMO "DISPOSITIVO DE ILUMINACAO ZENITAL PARA COBERTURAS DE TELHAS ZIPADAS". A presente invencao refere-se a um dispositivo para iluminacao utilizado em coberturas com telhas, e, mais especificamente a um dispositivo para 5 iluminacao que pode ser utilizado em coberturas formadas por telhas unidas por zipagem. O dispositivo de iluminacao zenital da presente invencao compreende uma parte de lente translucida (1) tendo porcoes de borda lateral (1a, 1b) conformadas para uniao com partes de zipagem (2, 3); sendo que cada uma das partes de zipagem (2, 3) e formada por um material perfilado, dobrado ou 10 extrusado, de modo que seu formato corresponda ao formato de porcoes de zipagem das telhas zipadas utilizadas para cobertura.

Machine translation: 1 SUMMARY "LIGHTING DEVICE zenith ROOF TILES zipped." The present invention relates to a device for lighting used on roofs with roofing tiles, and more specifically to a lighting device 5 which can be used in roofs formed from tiles together by zipagem. The overhead lighting device of the present invention comprises a translucent part of the lens (1) having a side edge servings (1a, 1b) shaped to union with zipagem parts (2, 3); and each of the parties to zipagem (2, 3) and formed by a profiled material, folded or 10 extrusado, so that its shape matches the servings format zipagem of zipped tiles used to cover. / 4 " LIGHTING DEVICE zenith ROOF TILES ZI padas "Field of the Invention The present invention relates to a device for lighting used on roofs with roofing tiles, and more specifically, to a device for zenithal illumination that can be used in coverings formed by tiles together by zipagem. Invention Basics The civil construction is a major challenge associated with sustainable buildings, where the design options take into account the maximization of water and energy savings. Among the sustainable solutions for the civil construction are the zenith illuminations calls, which are installed in buildings covers. This type of solution is based on the transmission of natural lighting to the interior environments. The use of natural lighting in buildings can be accomplished in several ways, including direct openings, or the utilization of panels, windows or domes of transparent material and translucent. Examples of such solutions can be seen in several already existing buildings. However, certain types of coverage is a challenge for the installation of these types of solutions. In fact,

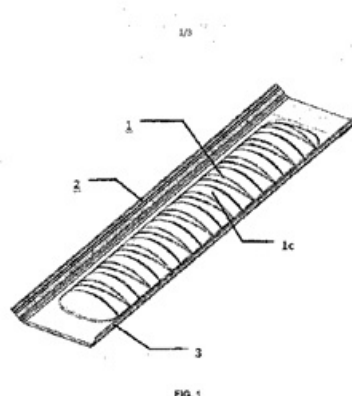
Metal roofs make the most difficult installation of panels and vaults, and this difficulty and increased when the covers are assembled from zipped metallic tiles. The zipagem process and a process of installation and sealing of roofs, where the metallic material tiles are fixed together by a sewing process carried out "in situ". The characteristics of this type of coverage of installation make it practically unfeasible simplified installation of existing overhead lighting solutions. Objectives of the Invention / 4 Thus, one of the objectives of the present invention to provide a lighting device which can be installed simply and safely in zipped roofing tiles. And another one of the objectives of the present invention to provide an illumination device that easily fits the modulations of roofing tiles zipped. Yet another of the present invention aims to provide a lighting device that presents great resistance to impact. And another one of the objectives of the present invention to provide a lighting device that has high transmittance of light to the environment. Summary of the Invention The present invention achieves the above objectives by means of an overhead lighting device for zipped roofing tiles comprising a portion of the translucent lens having a shaped side edge servings for joining with pieces of zipagem. Each party to zipagem and formed by a profiled material, folded or extruded, so that its shape matches the servings format zipagem of zipped tiles used to cover. In the preferred embodiment of this invention, the translucent lens part comprises a body with portions of cover compatible with the system, it may or may not be conformed in order to stiffen the system. The union between the side edge portions of the piece of translucent lens and parts of zipagem can be accomplished through the mechanical, chemical fixation, or, mechanical and chemical simultaneously. Brief Description of the Drawings The figures show: Figure 1 - Figure 1 illustrates a perspective view of a lighting device according to a preferred embodiment of this invention; Figure 2 - Figure 2 shows a view in detail of the union between the components lighting device according to Embodiment / fourth preferred embodiment of the present invention; and Figure 3 - Figure 3 illustrates a schematic view showing the relative dimensions of the part of the translucent lens lighting device according to the preferred embodiment of this invention . DETAILED DESCRIPTION OF THE INVENTION The present invention will be, hereinafter, described in more detail based on the examples of execution represented in the drawings. Figures 1 to 3 illustrate a preferred embodiment of the zenithal illumination device of the present invention. The lighting device comprises a piece of translucent lens 1 whose side edge servings 1a, 1b are conformed to union with parts of zipagem 2, 3. Part of translucent lens 1 can be manufactured from any suitable material, since the technical lighting transmission is satisfactory within the construction project you want to use. Among the suitable materials are polymers, silicates, mixtures thereof and any other material suitable for this purpose. In the preferred embodiment shown in the figures, the lens portion translucent 1 comprises a rectangular body with the side edge servings 1a, 1b shaped to union with the parts of zipagem 2, 3, and a central elongated relief 1c forming crests vaulted intermediated by valleys (see Figure 1). Each of the parts of zipagem 2, 3 and formed by a profiled material, folded or extruded, so that its shape matches the shape of servings of zipagem of Metal tiles used for constructions covers. Thus, the format of zipagem parts 2, 3 can be varied according to the format of zipagem Metal tiles corbetura, adapting perfectly to zipagem. Among the possible materials forming the parts of zipagem 2, 3 station metals, polymers or any other material suitable for this purpose. The union between the side edge servings 1a, 1b of the translucent lens 1 and parts of zipagem 2, 3 can be made through the fixation / 4 mechanical, chemical or mechanical and chemical simultaneously, since the properties of durability, dilation and tightness are met. Among the possible forms of union station: glued join (as shown in Figure 2), screw connection, riveted joint or union welded 5, however, other forms of union could be used. Particularly, the union bonded, an adhesive may be used, such as a structural adhesive bonding and sealing properties, or any adhesive compatible with the thermal expansion of the system. 10 Figure 3 shows the relative dimensions of the part of translucent lens 1, being the distance between the ends of the side edge servings 1a and 1b ha height of the arched crests, and L is the length of the part translucent. Such dimensions d, h and L may be varied so that the overhead lighting device of the present invention fits the roof tiles 15 of different shapes and dimensions. In addition, the lighting device of the present invention preferably comprises safety devices (stiffeners) - as reinforcements and seals in specific regions - to increase rigidity in these regions, reducing the possibility of leaks and increase security against 20 fall. Finally, it should be understood that the figures illustrate a preferred embodiment of the overhead lighting device proposed by the present invention, and the actual scope of the invention of the object is defined in the appended claims. / 1 Claims 1. Device for zenithal illumination zipped roofing tiles characterized in that it comprises: a part translucent lens (1) having a side edge servings (1a, 1b 5) shaped to parts of union with zipagem (2, 3); where each party to zipagem (2, 3) and formed by a profiled, folded or extruded material, so that its shape matches the servings format zipagem of zipped tiles used to cover. 2. Device according to claim 1, characterized by the 10 fact that the portion of translucent lens (1) comprises a rectangular body with side edge servings (1a, 1b) shaped for attachment to parts of zipagem (2, 3) and a central elongated relief (1c) forming arched crests mediated by valleys. 3. Device according to claim 1 or 2, characterized 15 in that the union between the side edge servings (1a, 1b) of Part lens translucent (1) and parts of zipagem (2, 3) if the through the mechanical fixation. 4. Device according to claim 1 or 2, characterized by the fact that the union between the side edge servings (1a, 1b) of the part 20 lens translucent (1) and parts of zipagem (2, 3) if the through the chemical fixation. 5. Device according to claim 1 or 2, characterized by the fact that the union between the side edge servings (1a, 1b) of Part lens translucent (1) and parts of zipagem (2, 3) takes place through fixation of 25 mechanical and chemical simultaneously. 6. Device according to any one of claims 1 to 5, characterized in that it further comprises stiffeners. / 3 Fig. Third RV, Fig. 2/3 Fig. 3/1 SUMMARY "LIGHTING DEVICE zenith ROOF TILES ZIPADAS". The present invention relates to a device for lighting used on roofs with roofing tiles, and more specifically to a lighting device 5 which can be used in roofs formed from tiles together by zipagem. The overhead lighting device of the present invention comprises a translucent part of the lens (1) having a side edge servings (1a, 1b) shaped to union with zipagem parts (2, 3); and each of the parties to zipagem (2, 3) and formed by a profiled material, folded or 10 estrusado, so that its shape matches the servings format zipagem of zipped tiles used to cover.

Classifications:

International (IPC 8-9): E04D3/06 (Advanced/Invention)

CPC: E04D3/06

PatBase - BR102013019100_A2



Publication number	Publication date	Application number	Application date
BR102013019100 A2	20150825	BR20131019100	20130725

Priority:

BR20131019100 20130725

Probable Assignee: MEDABIL SIST S CONSTRUTIVOS S A

Assignee(s): (std): MEDABIL SIST S CONSTRUTIVOS S A

Assignee(s): MEDABIL SISTEMAS CONSTRUTIVOS S A

Inventor(s): (std): BO GIULIANO DAL ; BORGES THIAGO DE FARIA ; NOGUEIRA GILCIMAR SARAIVA ; RIBEIRO MARCO AURELIO SOARES ; SILVA JULIANO PAIVA BIANCO DA ; JUNIOR JULIO OSCAR ZUSE

Inventor(s): MARCO AURELIO SOARES RIBEIRO ; THIAGO DE FARIA BORGES ; GILCIMAR SARAIVA NOGUEIRA ; GIULIANO DAL BO ; JULIANO PAIVA BIANCO DA SILVA ; JULIO OSCAR ZUSE JUNIOR

62) Family number: 23071386 (FR1313185A)

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Title: SYSTEME DE VOUTE RESILLE System vault Fishnet (Machine translation)

Abstract: Source: FR1313185A [FR] (Claim 1) 1. Une voute semi-prefabriquee composee d'elements en beton arme solidarises entre eux par soudure des aciers en attente et par un coulis de mortier;

Machine translation: (Claim 1) 1. A vault composed of semi-prefabricated reinforced concrete elements joined together by welding of steels and waiting for a grout mortar;

Classifications:

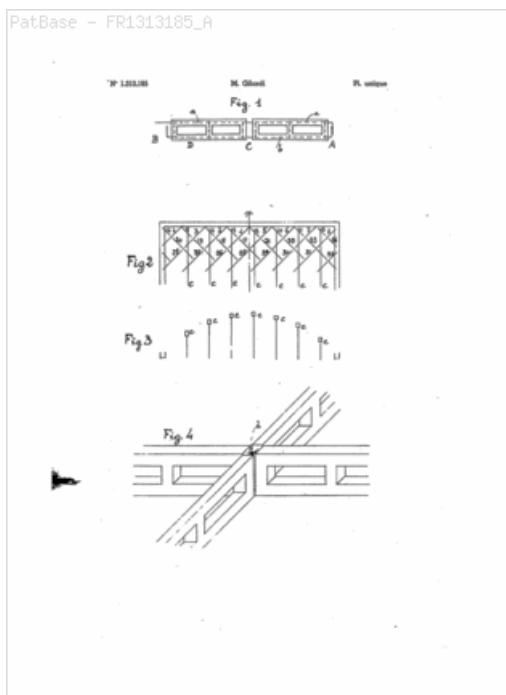
International (IPC 8-9): E04B7/10 (Advanced/Invention);

E04B7/10 (Core/Invention)

International (IPC 1-7): E04B5/14

CPC: E04B7/105

European: E04B7/10C



Family:

Publication number	Publication date	Application number	Application date
FR1313185 A	19621228	FR19610878713	19611113

Priority:

FR19610878713 19611113

Inventor(s): (std): GILARDI JACQUES GABRIEL

63) Family number: 50810393 (US2013168041A)

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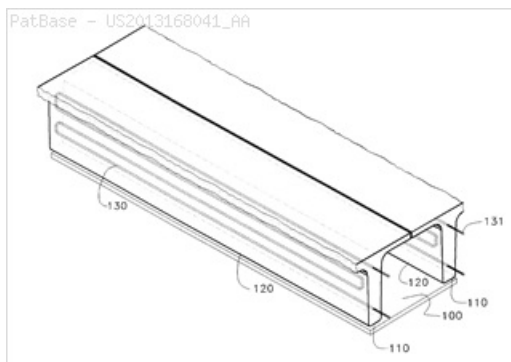
Title: FORCED AIR RADIANT HEATING UTILICORE AND MODULE AND BUILDING INCORPORATING SAME

Abstract: An HVAC duct or utilicore for substantially containing air flowing longitudinally therethrough has at least one wall comprised of a poured high thermal mass material with at least one pipe embedded therein during a pouring process, the at least one pipe for circulating a fluid throughout the at least one wall at a temperature that is different from an ambient temperature of the air flowing through the utilicore, for effecting heat transfer through the at least one wall between the fluid in the at least one conduit and the air flowing through the utilicore. A side wall of an elongate monolithic poured concrete building construction module, having a substantially planar main wall and at least one side wall extending substantially parallel to a longitudinal axis, having a pipe embedded therewithin, may form at least a portion of an element that defines the utilicore. A storey-defining structure for a building may comprise a plurality of at least one of such construction modules, each module supported at least two points by a support structure, each module being oriented such that distal ends of the side walls thereof engage the support structure, the at least one side wall and the main wall defining an elongate arch, the modules being juxtaposed in parallel relation to define at least one elongate utilicore between the arches. The support structure may comprise one or more modules employed as substantially horizontal beams or substantially vertical columns or both.

Classifications:

International (IPC 8-9): B28B B28B23/00 B28B7/00 B28B7/16 E04B

E04B1/04 E04B1/348 E04B1/35 E04B5/48 E04C E04C1/39 E04C2/52
E04G E04G21/00 F24D F24D11/00 F24D11/02 F24D3/14 F24D5/02
F24F F24F13/02 F24F5/00 F28D F28D20/00 F28D7/16 F28F
F28F21/04 (Advanced/Invention);
F24D3/14 (Advanced/Non-invention);
B28B E04B E04C E04G F24D F24F F28D F28F (Subclass/Invention)
CPC: B28B7/02 B28B7/164 B28B23/0025 E04B1/0023 E04B5/06
F24D5/10 F24F13/0227 E04C2/525 F24D3/145 F28D7/163 E04B5/48
F24F5/0089 F24D3/14 F24D11/0214 Y02B80/40 Y02A30/256
Y02B30/125 Y02B30/22 Y02B30/24
European: B28B23/00D B28B7/02 B28B7/16C E04B1/00C
E04B5/06 E04B5/48 E04C2/52A3 F24D3/14 F24D5/10 F24F13/02C
US: 165/164 165/49 52/220.1



Family:

Publication number	Publication date	Application number	Application date
CA2733310 AA	20110309	CA20102733310	20100917
CA2733310 C	20130903	CA20102733310	20100917
CA2761005 AA	20120317	CA20112761005	20110916
CA2761005 C	20140520	CA20112761005	20110916
CN103221620 A	20130724	CN201080069972	20100917
CN103221620 B	20161012	CN201080069972	20100917
CN103228994 A	20130731	CN201180044720	20110916
CN103228994 B	20160427	CN201180044720	20110916
EP2616602 A1	20130724	EP20100857103	20100917
EP2616602 A4	20161026	EP20100857103	20100917
EP2616743 A1	20130724	EP20110824390	20110916
EP2616743 A4	20141119	EP20110824390	20110916
IL225210 A0	20130627	IL20110225210	20110916
IL225210 A1	20170928	IL20110225210	20110916
IL225211 A0	20130627	IL20100225211	20100917
IN00615KN2013 A	20130712	IN2013KN00615	20130306
IN00616KN2013 A	20130712	IN2013KN00616	20130306
MX2013003025 A1	20130821	MX20130003025	20110916
MX2013003026 A1	20130926	MX20130003026	20100917
MX357336 B	20180705	MX20130003025	20110916
RU2013112889 A	20141027	RU20130112889	20100917
RU2013112891 A	20141027	RU20130112891	20110916
RU2570305 C2	20151210	RU20130112891	20110916
US2013168041 AA	20130704	US20110821282	20110916
US2013180191 AA	20130718	US20100821259	20100917
US9670670 BB	20170606	US20110821282	20110916
WO12034207 A1	20120322	WO2010CA01435	20100917
WO12034207 A9	20120705	WO2010CA01435	20100917
WO12034217 A1	20120322	WO2011CA01031	20110916
WO12034217 A4	20120510	WO2011CA01031	20110916
ZA201302696 A	20140625	ZA20130002696	20100917
ZA201302697 A	20140625	ZA20130002697	20110916

Priority:

WO2010CA01435 20100917 ZA20130002696 20100917 CA20112761005 20110916
WO2011CA01031 20110916

Probable Assignee: URBANETICS INC

Assignee(s): (std): TIRON WILLIAM ; URBANETICS INC ; URBANETIKS INK

Inventor(s): (std): TIRON WILLIAM ; WILLIAM TIRON ; TIRON UIL JAM

Agent(s): LEUNG DENNIS SK; ROHDE VIBEKE WARBERG; REINHOLD COHN AND PARTNERS; HARNESS DICKEY
AND PIERCE PLC; RIDOUT AND MAYBEE LLP; LEUNG DENNIS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL
IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT
MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM
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64) Family number: 11712396 (US5361550A)

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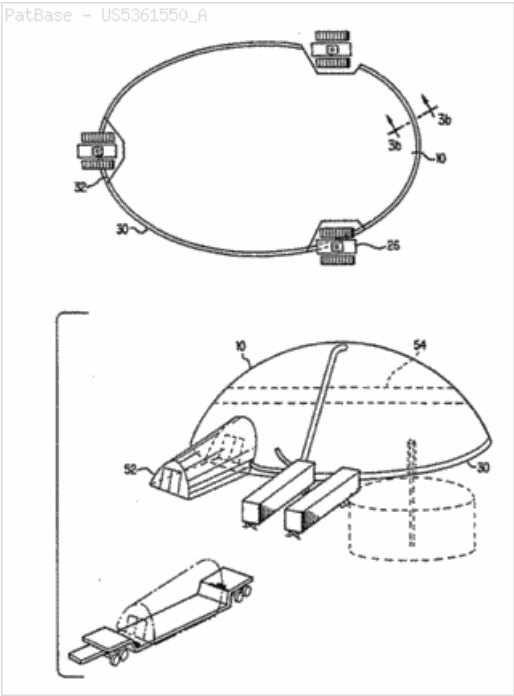
Title: Movable hardened air form dome-shaped structure for containing hazardous, toxic, or radioactive airborne releases

Abstract: The present invention provides a means for secondary containment of airborne releases from underground storage tanks, trenches, cribs, and vaults. Airborne releases of nuclear waste from previously operated nuclear weapons plants is a particular problem which this invention addresses. The dome structure is fabricated by large inflatable fabric forms that are insulated and hardened by specialized shotcrete processes for either spherical or elliptical type dome structure. This dome structure is designed to be reused and thus made mobile by having at least three large capacity crawler/transporters or a crane link-up and lift the dome structure for transport to a desired HTRW location. The dome structure is made of layered materials comprising a thin flexible membrane of urethane foam and conventional shotcrete placed on steel reinforcing bars. Another novel feature is a post-tensioned reinforced concrete ring beam serves as a foundation footing that includes steel-insert lifting points for load transfer to the crawler/transporters or crane. In addition to the basic dome structure, utilities are included comprising an airlock unit for segregated access into the dome structure interior and portable trailer utilities for heating, ventilating, air conditioning and decontamination.

Classifications:

International (IPC 8-9): B09B1/00 B09C1/00 B60P3/00 E04B1/32
G21F9/02 (Advanced/Invention);

B09B1/00 B09C1/00 B60P3/00 E04B1/32 G21F9/00 (Core/Invention)
International (IPC 1-7): B09B1/00 C05F9/00 E04B1/32
CPC: B09B1/00 B09C1/00 B60P3/005 E04B1/3211 E04B2001/3217 E04B2001/3258 G21F9/02
European: B09B1/00 B09C1/00 B60P3/00C E04B1/32C G21F9/02 P04B1/32H P04B1/32N
US: 135/93 405/128 405/128.1 405/129.55 52/2.15 52/2.25 52/215 52/225 52/80.1 52/801 588/249



Family:

Publication number	Publication date	Application number	Application date
US5361550 A	19941108	US19930162924	19931208
US5436385 A	19950725	US19940268988	19940630

Priority:

US19930162924 19931208 US19940268988 19940630

Probable Assignee: US ARMY CORPS OF ENGINEERS

Assignee(s): (std): US ARMY

Assignee(s): US ARMY CORPS OF ENGINEERS ; US ARMY CORPS OF ENGINEERS CEHEC OC KINGMAN BLDG ; US ARMY CORPS OF ENGINEERS KINGMAN BUILDING ATTN C ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE ARMY

Inventor(s): (std): KADEN RICHARD A

65) Family number: 54325403 (DE102012100334A1) © PatBase

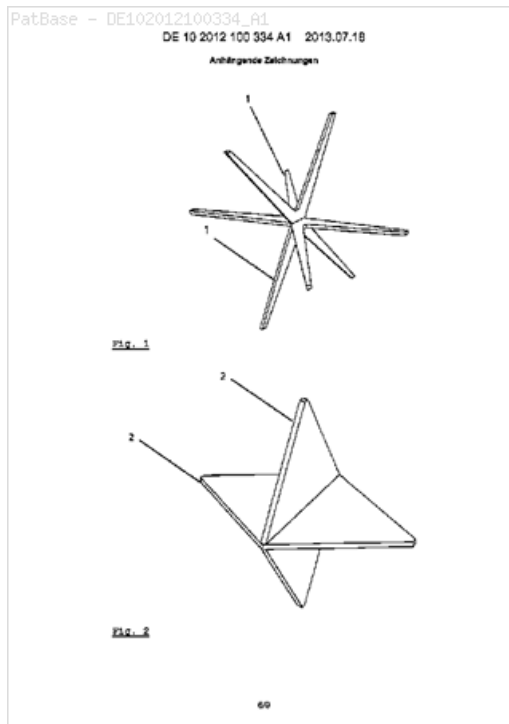
Title: METHOD FOR MANUFACTURING ARCHITECTURAL STRUCTURES OF AGGREGATED CONCAVE IMAGE, INVOLVES AGGREGATING CONCAVE IMAGE BY USING DIGITALLY CONTROLLED MECHANICAL CONVEYING UNITS, WHERE CONSTANT FLOW OF CONCAVE IMAGE IS POURED ON SUBSTRATE

Abstract: The method involves aggregating a concave image by using digitally controlled mechanical conveying units. A constant flow of the concave image is poured from a low height on a substrate to aggregate the concave image and to establish the structures. The formed structure is reinforced by the action of pressure or vibration. Independent claims are included for the following: (1) a method for decomposing architectural structures of aggregated concave image; (2) a concave structure with two orthogonally assembled planar sub-elements; and (3) a method for manufacturing sub-elements of concave image.

Classifications:

International (IPC 8-9): E04B1/35 (Advanced/Invention)

CPC: E04B1/35



Family:

Publication number	Publication date	Application number	Application date
DE102012100334 A1	20130718	DE201210100334	20120116

Priority:

DE201210100334 20120116

Probable Assignee: KAROLA DIERICH

Assignee(s): (std): KAROLA DIERICH

Inventor(s): (std): DIERICH KAROLA ; MENGES ACHIM ; SCHWINN TOBIAS

66) Family number: 22230404 (US2822685A)

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Title: DUAL BURIAL VAULT STRUCTURE

Abstract: We claim: A dual burial vault structure comprising a lower burial vault unit and an upper burial vault unit, said lower burial vault unit including a box-shaped portion having an open top and composed of an outer concrete shell and an inner asphalt layer integrally bonded thereto, the upper burial vault unit including a dome-shaped member having an open bottom and composed of an outer concrete shell and an inner asphalt layer integrally bonded thereto, said upper and lower burial vault units being disposed with the open portions thereof in opposed relationship, a combination base and cover and structural reinforcing member seated upon the upper surfaces of the walls of said lower burial vault unit and providing a cover therefor, said combination base and cover and structural reinforcing member being composed of an upper concrete wall and a lower asphalt layer integrally bonded thereto and said upper concrete wall including a generally rectangular-shaped raised center portion having a marginal flange formed integrally therewith and disposed below and extending therearound, the bottom of said flange and the upper surface of the walls of the lower burial vault unit having a tongue and groove interlocking engagement so as to resist inward movement of such walls at the open top of the lower burial vault unit, said flange having a flat upper surface, the lower end portions of the side and end walls of the said dome-shaped member resting upon said upper surface of the marginal flange with said raised center portion projecting up into the open lower end of said upper burial vault unit and providing a base therefor, said raised center portion being of slightly less width and length at its juncture with said flat upper surface of the marginal flange than the inside dimensions between the inner surfaces of the side and end walls of the upper unit so as to positively position the same and resist inward movement thereof at the open bottom of the upper burial vault unit, layer means hermetically sealing the said upper end portions of the side and end walls of said lower burial vault unit to the lower surface of said marginal flange of the reinforcing member, and layer means hermetically sealing the lower end portions of the side and end walls of the upper burial vault unit to the upper surface of said marginal flange, said combination base and cover and structural reinforcing member providing a structural reinforcement for the side and end walls of the upper and lower burial vault units as the upper and lower burial vault units and reinforcing member are disposed in assembled relationship.

Classifications:

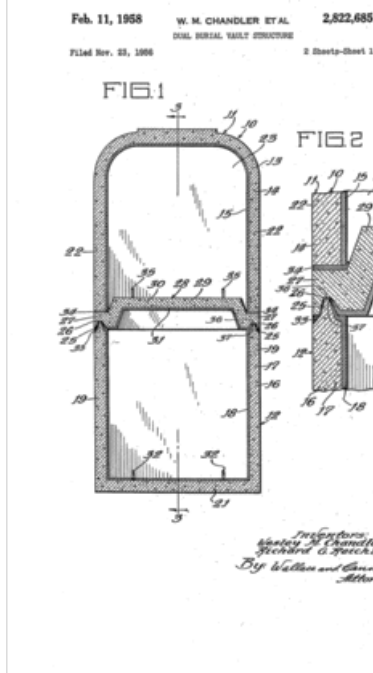
International (IPC 8-9): E04H13/00 (Advanced/Invention); E04H13/00 (Core/Invention)

International (IPC 1-7): E04H13/00

CPC: E04H13/00

European: E04H13/00

US: 52/137

**Family:**

Publication number	Publication date	Application number	Application date
US2822685 A	19580211	US19560623962	19561123

Priority:

US19560623962 19561123

Probable Assignee: WILBERT W HAASE CO**Assignee(s):** (std): WILBERT W HAASE CO**Inventor(s):** (std): MILES CHANDLER WESLEY ; REICHLER RICHARD G**Inventor(s):** CHANDLER WESLEY MILES**67) Family number: 19074407** (GB554744A)

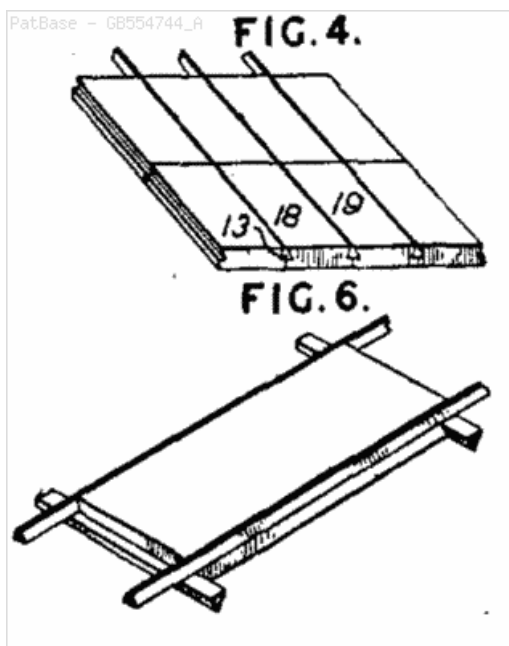
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Title: Improvements in or relating to methods of and means for constructing roofs, floors and the like

Abstract: 4364. [Class 20 (iv)] Two slabs 18, 19 are formed with V-shaped recesses at their edges so that they enclose a beam 13 of triangular cross section. By forming recesses in all the slab edges, beams intersecting at right angles may be enclosed. Two of the edges are oppositely recessed from the other two, so that the beams clear one another, one of the triangular sections being inverted as shown in Fig. 6. The slabs may be square or rectangular, or rhombus-shaped, and may be divided into two or more separable parts to facilitate assembling. The slabs may be curved for constructing arches or domes. The beams may be reinforced by steel rods near the angles, which may be secured to the structure of a building. The slabs may also be reinforced, or may be hollow.

Classifications:**International (IPC 8-9):** E04B5/14 (Advanced/Invention);

E04B5/14 (Core/Invention)

International (IPC 1-7): E04F15/02**CPC:** E04B5/14**European:** E04B5/14**Family:**

Publication number	Publication date	Application number	Application date
GB554744 A	19430716	GB19420004364	19420401

Priority:

GB19420004364 19420401

Probable Assignee:

HERBERT ALTOFT

Assignee(s): (std):

HERBERT ALTOFT

68) Family number: 74177412 (WO14138548A1)

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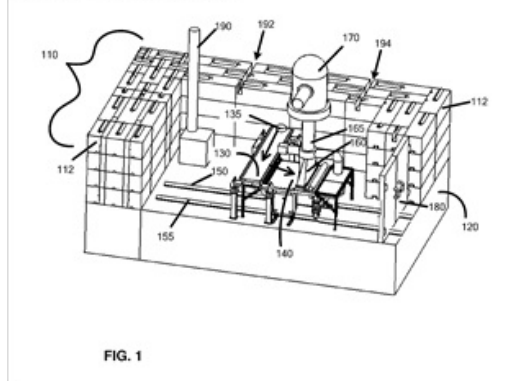
Title: RECONFIGURABLE PROCESSING ENCLOSURES

Abstract: Biomass (e.g., plant biomass, animal biomass, and municipal waste biomass) or other materials are processed to produce useful intermediates and products, such as energy, fuels, foods or materials. For example, systems and methods are described that can be used to treat feedstock materials, such as cellulosic and/or lignocellulosic materials, in a vault in which the walls and optionally the ceiling include discrete units. Such vaults are re-configurable.

Classifications:

International (IPC 8-9): B01D15/02 B01D53/32 B01J19/08 B01J19/12 B09B5/00 B65G53/40 C08J3/28 C10L9/08 C12M1/00 E04B1/92 E04H5/00 E04H5/02 G01T7/08 G21K G21K5/00 G21K5/04 G21K5/10 (Advanced/Invention); C08H8/00 D21C1/00 G21F7/005 (Advanced/Non-invention); G21K (Subclass/Invention)
CPC: B01D15/02 B01D53/32 B01D61/44 B01J19/085 B01J2219/0869 B01J2219/0879 B01J2219/0886 B65G27/00 B65G53/04 B65G53/40 C07C29/149 C07C31/12 C10G1/00 C10L1/023 C10L1/026 C10L9/08 C10L2200/0469 C10L2200/0476 C10L2290/36 C12M47/00 C12M47/10 C12P7/04 C12P7/06 C12P7/10 C12P7/52 C12P7/56 C12P19/02 C12P19/14 C12P2201/00 C12P2203/00 C13K1/02 C13K13/002 E04B1/92 E04B2001/925 G21F7/00 H01J37/317 H01J2237/202 H01J2237/31 H01J2237/3165 Y02E50/16 Y02E50/17 Y02E50/32 Y02E50/343 Y02E60/17 Y02P20/136 Y02W10/33 Y02W10/37 E04H5/00 D21C9/007 B01D61/445 Y02E50/30

PatBase - WO14138548_A1



Family:

Publication number	Publication date	Application number	Application date
AP201508681 A0	20150831	AP20150008681	20140307
AU2014225488 AA	20150402	AU20140225488	20140307
AU2014225488 BB	20180628	AU20140225488	20140307
BR112015019241 A2	20170718	BR20151119241	20140307
CA2886290 AA	20140912	CA20142886290	20140307
CN105164760 A	20151216	CN201480009480	20140307
CU20150100 A7	20161129	CU20150000100	20140307
CU24333 B	20180403	CU20150000100	20140307
EA201591308 A1	20160229	EA20150091308	20140307
EP2888744 A1	20150701	EP20140759718	20140307
EP2888744 A4	20160727	EP20140759718	20140307
IL240481 A0	20150924	IL20150240481	20150810
JP2016510691 T2	20160411	JP20150561697T	20140307
KR20150127588 A	20151117	KR20157022333	20140307
MX2015010766 A1	20151130	MX20150010766	20140307
MX363016 B	20190304	MX20150010766	20140307
PH2015500584 A	20150511	PH20150500584	20150317
PH2015500584 B	20150511	PH20150500584	20150317
PH2017501313 A	20180625	PH20170501313	20170719
SG11201502353T A1	20150429	SG20151102353	20140307
UA116121 C2	20180212	UA20150008066	20140307
WO14138548 A1	20140912	WO2014US21629	20140307

Priority:

US20130774684P 20130308	US20130774723P 20130308	US20130774731P 20130308
US20130774735P 20130308	US20130774740P 20130308	US20130774744P 20130308
US20130774773P 20130308	US20130774746P 20130308	US20130774750P 20130308
US20130774752P 20130308	US20130774754P 20130308	US20130774775P 20130308
US20130774780P 20130308	US20130774761P 20130308	US20130793336P 20130315
WO2014US21629 20140307		

Probable Assignee: XYLECO

Assignee(s): (std): MARSHALL MEDOFF ; ROBERT PARADIS ; THOMAS CRAIG MASTERMAN ; XYLECO INC ; XYLECO

Assignee(s): MASTERMAN THOMAS CRAIG ; MEDOFF MARSHALL ; PARADIS ROBERT

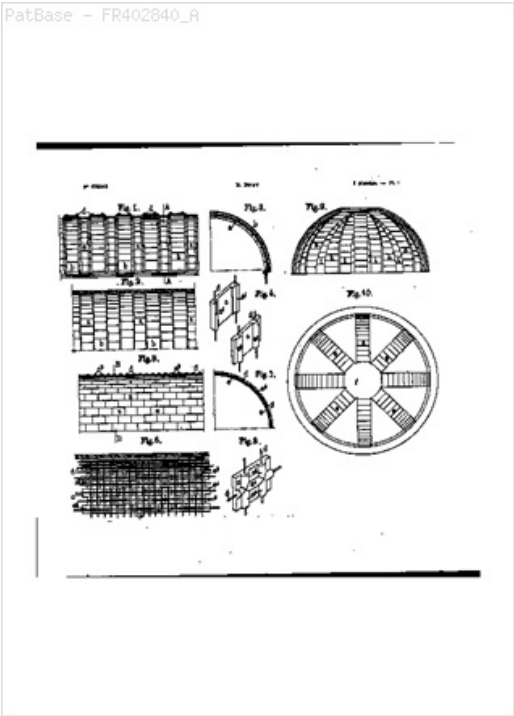
Inventor(s): (std): PARADIS ROBERT ; MEDOFF MARSHALL ; MASTERMAN THOMAS CRAIG ; MARSHALL MEDOFF ; ROBERT PARADIS ; THOMAS CRAIG MASTERMAN ; CRAIG MASTERMAN THOMAS

Agent(s): WRAYS; MARKS AND CLERK; SMART AND BIGGAR; KEANE PAUL FACHTNA; KOBAYASHI HIROSHI; KOBAYASHI SUMIKO; OHMORI NORIO; DE REGE THESAURO FRANCESCO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: Voutes et coupoles en ciment arme Vaults and domes in cement arm (Machine translation)

Classifications:
International (IPC 1-7): E04B7/08
CPC: E04B7/08
European: E04B7/08



Family:

Publication number	Publication date	Application number	Application date
FR402840 A	19091018		00000000

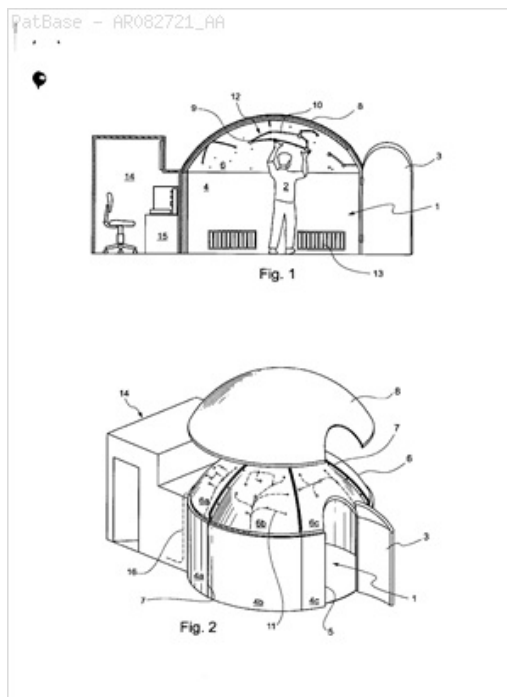
Probable Assignee: EDOUARD JULES CLAUDE BERARD
Assignee(s): (std): EDOUARD JULES CLAUDE BERARD
Inventor(s): (std): BERARD EDOUARD JULES CLAUDE

Title: PLANETARIO ACCESIBLE PARA DISCAPACITADOS VISUALES GLOBAL ACCESS FOR VISUALLY IMPAIRED (Machine translation)

Abstract: Source: AR082721A [ES] Planetario accesible para discapacitados visuales que presenta un recinto donde pueden ingresar las personas para experimentar ya sea mediante la vista y/o el tacto una pluralidad de constelaciones estelares dispuestas sobre una boveda superior concava que oficia de techo; las estrellas de las constelaciones se representan una por medio de protuberancias de distintos tamanos y colores luminosos y se unen mediante tiras en relieve de manera tal de representar dichas constelacion estelares de manera accesible para las personas videntes y las personas con deficiencias visuales, estas ultimas accediendo a las mismas mediante el tacto; adicionalmente el recinto se acondiciona mediante regulacion de la temperatura, humedad, aroma y sonido para emular el entorno de una noche diafana de observacion de estrellas.

Machine translation: Planetarium visual handicap accessible having a venue where people can enter to experience either by sight and / or touch a plurality of star constellations arranged on a concave upper dome ceiling officiating, the stars of the constellations they represent through bumps of different sizes and bright colors and are joined by embossed strips so stellar constellation of representing such a manner accessible to the sighted and visually impaired, the latter accessing the same by touch; further conditioned by the enclosure temperature regulation, moisture, aroma and sound to emulate the environment of a diaphanous night stargazing.

Classifications:
International (IPC 8-9): E04H3/06 G09B21/00
G09B27/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
AR082721 AA	20121226	AR2011P102995	20110818

Priority:

AR2011P102995 20110818

Probable Assignee: UNIV TECNOLOGICA NAC FACULTAD REGIONAL MENDOZA

Assignee(s): (std): UNIV TECNOLOGICA NAC FACULTAD REGIONAL MENDOZA

Assignee(s): UNIVERSIDAD TECNOLOGICA NACIONAL FACULTAD REGIONAL MENDOZA

Inventor(s): (std): GARCIA BEATRIZ ; MACILLA ALEXIS ; MAYA JAVIER ; PEREZ ALVAREZ SILVINA ; VIDELA MARIELA ; YELOS DIANA

71) Family number: 51968424 (GB2505765A)

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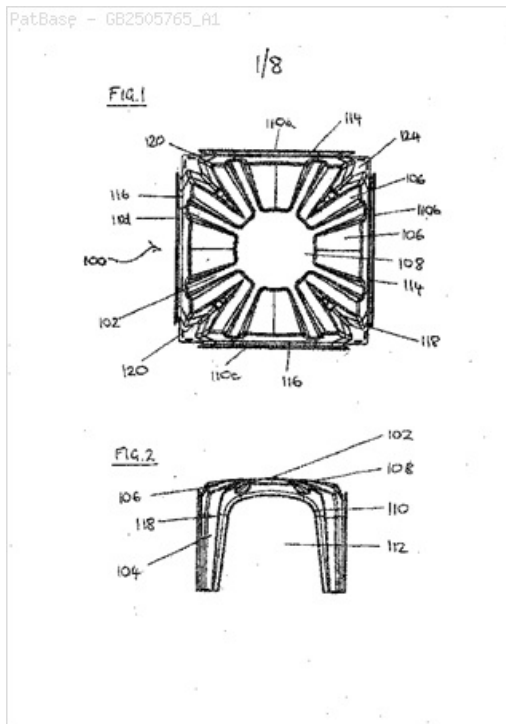
Title: A SUSPENDED CONCRETE PLATFORM WITH PLATFORM FORMWORKS

Abstract: A method of laying a suspended concrete platform comprises laying a plurality of adjacent platform formworks or domed building elements (100, figure 1). The platforms formworks have a platform portion 102 and at least two elevation portions 104 extending from the platform portion, and the elevation portions each have a foot region. Adjacent elevation portions intersect to define arches 110 which define side apertures 112. The platform portion and the elevation portions are arranged so that when the foot regions are rested on a surface a cavity is defined beneath the platform portion and above the surface. The concrete platform is created by pouring a concrete layer over the platform formworks such that the side apertures provide access from the cavity under one of the platform formworks to the cavity under an adjacent formwork. Other claims relate to a suspended concrete platform, a platform formwork, a method of laying a footing system, and a footing system.

Classifications:

International (IPC 8-9): E02D27/01 E04B5/32 (Advanced/Invention)

CPC: E04B5/326 E02D27/01 E04B5/36

**Family:**

Publication number	Publication date	Application number	Application date
GB201212611 A0	20120829	GB20120012611	20120716
GB201312702 A0	20130828	GB20130012702	20130716
GB2505765 A1	20140312	GB20130012702	20130716
GB2505765 B2	20171108	GB20130012702	20130716

Priority:

GB20120012611 20120716

Probable Assignee: SUSCOM INT LTD**Assignee(s):** (std): SUSCOM IND LTD ; SUSCOM INT LTD ; SUSCOM INTERNAT LTD**Assignee(s):** SUSCOM INTERNATIONAL LIMITED**Inventor(s):** (std): TARTAGLIONE DONATO ALESSANDRO ; TARTAGLIONE DONATO ; DONATO TARTAGLIONE ; DONATO ALESSANDRO TARTAGLIONE**72) Family number: 71533439** (ES2685976A)

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Title: BLOQUE POLIVALENTE Polyvalent block (Machine translation)

Abstract: Source: ES2685976A [ES] Sistema constructivo con bloque polivalente. Se basa en un bloque hueco aligerado en forma de prisma cerrado que presenta alveolos en los cantos y en las testas (1). Fabricado en dos o varias piezas (paneles). Estos paneles por la cara interior presentan una red de acanaladuras (1) y en las intersecciones de estas se encuentran los pilares (3) que tienen forma de tronco de pirámide con un orificio transversal. Para fabricar el bloque se superponen los paneles por la cara interior y se rellenan los orificios con algun aglomerante. El bloque polivalente esta disenado para que se pueda rellenar con materiales aislantes (cerramientos) o con hormigon y que se pueda colocar armadura horizontal y vertical. Presenta una junta intermedia para aislar la cara exterior de la interior.

Machine translation: With polyvalent block construction system. Is based on a hollow block lightened in the shape of a prism having closed alveoli in the edges and in the heads (1). Manufactured in two or more parts (panels). These diapers on the inner side have a network of grooves (1) and at the intersections of these are the pillars (3) having the form of truncated pyramid with a transverse hole. For manufacturing the block overlap the panels on the inside and the holes are filled with a binder. The polyvalent block is designed so that it can be filled with insulating materials (enclosures) or with concrete and that can be placed in horizontal and vertical armor. Presents an intermediate seal to isolate the outer face of the interior.

Classifications:

International (IPC 8-9): E04B1/06 E04B2/26 E04C1/39
E04C2/52 (Advanced/Invention)

CPC: E04B2/26 E04B1/06 E04C1/397 E04C2/521

FIGURA 1



FIGURA 2

Family:

Publication number	Publication date	Application number	Application date
ES2685976 AA	20181015	ES20170000558	20170412

Priority:

ES20170000558 20170412

Probable Assignee:

SANCHEZ ZAMBRANO JOSE LUIS

Assignee(s): (std):

SANCHEZ ZAMBRANO JOSE LUIS

Assignee(s):

JOSE LUIS SANCHEZ ZAMBRANO

Inventor(s): (std):

SANCHEZ ZAMBRANO JOSE LUIS

Inventor(s):

JOSE LUIS SANCHEZ ZAMBRANO

73) Family number: 1089444 (US3830029A)

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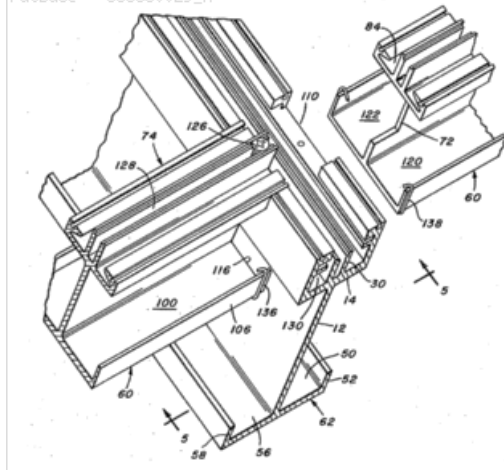
Title: SKYLIGHT CONSTRUCTION

Abstract: A skylight having a plurality of interconnected elongated primary structural members and secondary structural members defining panel receiving openings. Panels having marginal portions secured to the primary and secondary structural members. The primary and secondary structural members having first drainage channel means. The primary and secondary structural members having second drainage channel means extending transversely outwardly beyond the first drainage channel means. Second drainage channel means of either the primary or the secondary structural members having a discharge outlet in overlying communicating relationship with respect to the second drainage channel means of the other of the primary and secondary structural members. The first drainage channel means may have at least one upwardly open channel member and the second drainage channel means may have at least two upwardly open channel members.

Classifications:**International (IPC 8-9):** E04D3/06 (Advanced/Invention);

E04D3/08 (Advanced/Non-invention);

E04D3/02 (Core/Invention)

International (IPC 1-7): E04C1/24**CPC:** E04D3/06 E04D2003/0806 E04D2003/0868 E04D2003/0893**European:** E04D3/06 P04D3/08P1 P04D3/08S P04D3/08V**US:** 52/200 52/395 52/464 52/669**Family:**

Publication number	Publication date	Application number	Application date
US3830029 A	19740820	US19720298660	19721018

Priority:

US19720298660 19721018

Probable Assignee: BOHEM MFG CO INC
Assignee(s): (std): VANCE L
Assignee(s): VANCE L US ; BOHEM MFG ; BOHEM MFG CO INC
Inventor(s): (std): VANCE L
Inventor(s): VANCE L US

74) Family number: 25846444 (US3456414A)

© PatBase

Title: STRUCTURAL ELEMENT

Abstract: ABSTRACT OF THE DISCLOSURE

A structural element consisting of a plurality of connected relatively movable sections which include a pair of end sections and a plurality of intermediate sections located between the end sections. At least some of the intermediate sections are flexible. Coupling means is provided on at least one of these sections for mating engagement with complementary coupling means provided on other elements to which the structural element is to be connected. CROSS-REFERENCE TO RELATED APPLICATIONS Other structural elements, in conjunction with which the structural element disclosed can be used herein and to which it can be connected, are set forth in an application filed on Dec. 1, 1966, in the name of Artur Fischer, under the title, "Structural Element," and currently copending under Ser. No. 598,522. B

Classifications:

International (IPC 8-9): A63H33/04 A63H33/08 (Advanced/Invention); A63H33/04 (Core/Invention)

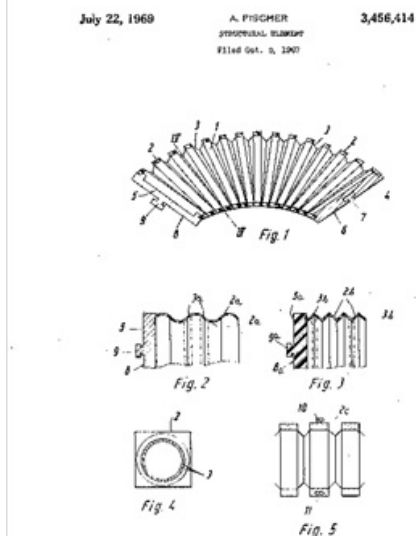
International (IPC 1-7): A63H33/00 A63H33/04 A63H33/08 E04C3/30

CPC: A63H33/04 A63H33/08

European: A63H33/04 A63H33/08

US: 446/125 52/309.1 52/592.2 52/632 52/726.1 52/848 527/260

PatBase - US3456414_A



Family:

Publication number	Publication date	Application number	Application date
AT289606 B	19710426	AT19670009289	19671013
BE705090 A	19680215		19671013
CH455608 A	19680715	CH19670014386	19671013
DE1603309 A1	19710318	DE19661603309	19661015
DK115978 B	19691124	DK19670005088	19671013
FR1540778 A	19680927	FR19670124323	19671013
GB1179160 A	19700128	GB19670046809	19671013
NL6713733 A	19680416	NL19670013733	19671010
NO117109 B	19690630	NO19670170078	19671011
US3456414 A	19690722	US19670004386	19671009

Priority:

DE1966F050450 19661015 FR19670124323 19671013

Probable Assignee: FISCHER A

Assignee(s): (std): FISCHER A ; FISCHER ARTUR

Assignee(s): ARTUR FISCHER

Inventor(s): (std): FISCHER ARTUR ; FISCHER A ; ARTUR FISCHER

75) Family number: 31150452 (BE1015067A)

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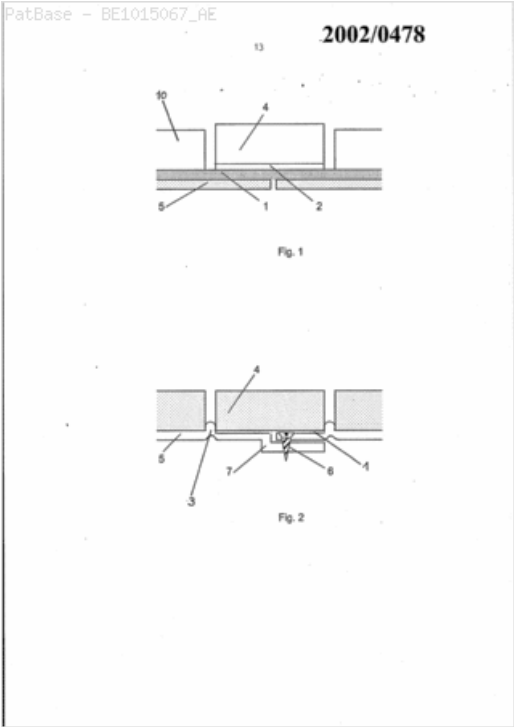
Title: DECORATIVE CURVED PANEL FOR VAULTED CEILING HAS ONE OR MORE FIXING LUGS AND POLYMER REINFORCING MEMBERS

Abstract: Decorative curved panel (5), preferably having a flattened omega-shaped cross-section, is moulded in one piece with flat lengthwise edges and transverse edges with one or more lugs (7) for fixing screws (6). Decorative curved panel (5), preferably having a flattened omega-shaped cross-section, is moulded in one piece with flat lengthwise edges and transverse edges with one or more lugs (7) for fixing screws (6). The exposed surface of the panel has encrusted brick tiles in staggered

rows delineated by stiffening ribs (3) that also fill part of the gaps between the tiles. The brick tiles can be fixed in place and the joints between them filled with mortar prior to fitting the panel, apart from the tiles (4) covering fixing screws. Each panel is additionally reinforced by a polymer bar across the back.

Classifications:

International (IPC 8-9): E04B9/04 E04F13/08
E04F13/14 (Advanced/Invention);
E04B9/04 E04F13/08 E04F13/14 (Core/Invention)
International (IPC 1-7): E04F13/08
CPC: E04B9/0407 E04F13/0862 E04F13/147
European: E04B9/04A E04F13/08C E04F13/14J



Family:

Publication number	Publication date	Application number	Application date
BE1015067 AE	20040907	BE20020000478	20020809

Priority:

BE20020000478 20020809

Probable Assignee: MAFIKA S P R L
Assignee(s): (std): MAFIKA S P R L ; MAFIKA SPRL
Inventor(s): (std): DE VINCK OLIVIER ; OLIVIER DE VINCK

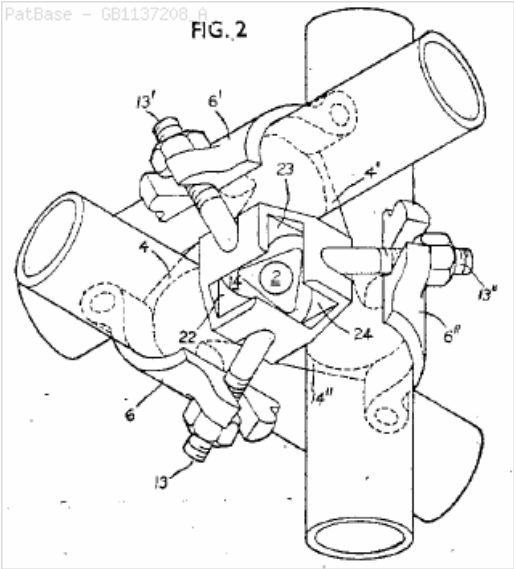
76) Family number: 22988452 (GB1137208A) PatBase

Title: An improved clamp

Abstract: 1,137,208. Clamps. J. GLANZER. 25 March, 1966, No. 13340/66. Heading E2B. A clamp for holding three scaffold or the like tubular elements in fixed relation to one another comprises a body including a housing forming a chamber 14, the chamber being provided by the inside faces 22, 23 and 24 of three plane members which at the interception of their edges have an aperture 2 passing through the body, the aperture having an axial direction which is symmetrical to the intercepting edges of the plane members and the outside face of each of the plane members form part of a clamping wing 4, 4', 4'' forming an integral portion of the body. The clamping wings have each a free end portion defining a pivotal support for a corresponding clamping arm 6, 6', 6'' the pivot axes of the pivotal supports are each parallel to the respective intercepting edge. The housing loosely retains clamping members 13, 13', 13'' for gripping and retaining the clamping arms. The aperture ending at one end in the chamber and at its opposite end in a plane surface of the body. Two clamps are combined by superimposing the plane surfaces to provide six or seven clamping directions.

Classifications:

International (IPC 8-9): E04G7/14 (Advanced/Invention);
E04G7/00 (Core/Invention)
International (IPC 1-7): E04G7/14 F16B7/08
CPC: E04G7/14
European: E04G7/14



Family:

Publication number	Publication date	Application number	Application date
GB1137208 A	19681218	GB19660013340	19660325

Priority:

GB19660013340 19660325

Probable Assignee:

JACOBO GLANZER

Assignee(s): (std):

JACOBO GLANZER

77) Family number: 54728454 (FR2987636A)

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Title: DEVICE I.E. HOLLOW BLOCK OR BRICK, FOR CONSTRUCTING E.G. CURVED WALL, HAS MALE PART WHOSE WIDTH IS LESS THAN THAT OF FEMALE PART SO AS TO FACILITATE PASSAGE OF MALE PART INTO FEMALE PART TO FORM INTERSTICES DURING FITTING PARTS AT ANGLE

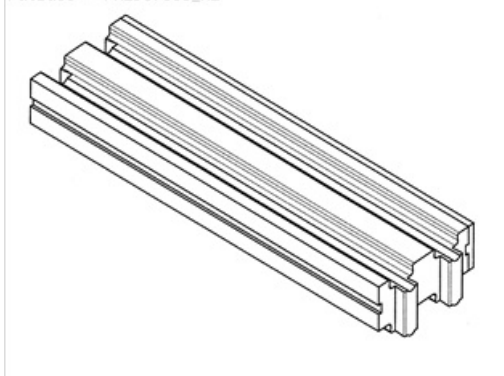
Abstract: The device i.e. hollow block or brick (2), has a male part (4) and a female part (5) forming a trapezoidal under cut, where the parts are extruded on faces of the hollow block or brick and positioned above or against each other. Width (L2) of the male part is less than width (L1) of the female part in order to facilitate the passage of the male part into the female part to allow creation of interstices during fitting the male part and the female parts at certain angle.

Classifications:

International (IPC 8-9): B28B7/20 E04C1/39 (Advanced/Invention)

CPC: E04C1/39 E04B2002/0206 E04B2002/0228 E04B2002/0236 E04B2002/0265 E04B2/08

PatBase - FR2987636_A1



Family:

Publication number	Publication date	Application number	Application date
FR2987636 A1	20130906	FR20120000611	20120301

Priority:

FR20120000611 20120301

Probable Assignee:

DAVOUDI FARHOOMAN

Assignee(s): (std):

DAVOUDI FARHOOMAN

Assignee(s):

FARHOOMAN DAVOUDI

Inventor(s): (std):

DAVOUDI FARHOOMAN

Inventor(s):

FARHOOMAN DAVOUDI

Agent(s):

FARHOOMAN DAVOUDI

78) Family number: 20354463 (DE583125A)

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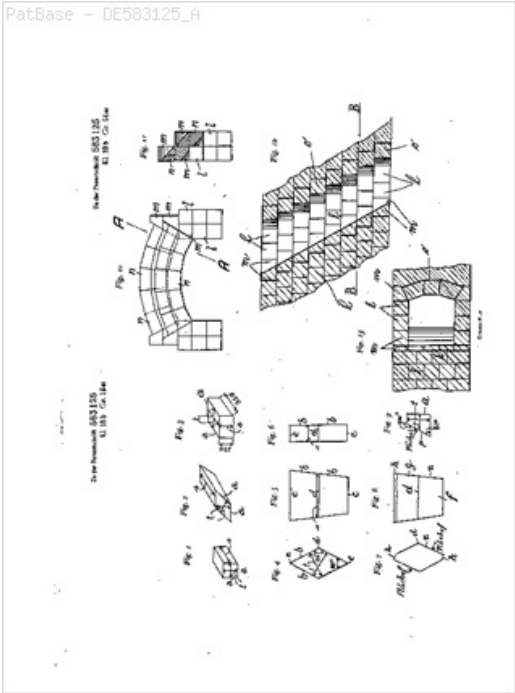
Title: GEGOSSENER, FEUERFESTER BAUKOERPER FUER SIEMENS-MARTIN- UND ANDERE INDUSTRIEUEFEN Cast, FIREPROOF bodies adhering to open-hearth furnaces AND OTHER (Machine translation)

Abstract: Source: DE583125A [DE] (Claim 1) 1. PATENTANSPRUECHE: i. Aus dem Schmelzfluss gegossener, vorzugsweise aus Oxyden des Magnesiums, Chroms, Siliziums und Aluminiums ge- bildeter, feuerfester Baukoerper mit plan parallelen Begrenzungsflaechen fuer die Er richtung von Siemens-Martin-oefen und an deren Industrie-Feuerungsanlagen, dadurch gekennzeichnet, dass er wenigstens zwei Paar planparallele Begrenzungsflaechen be sitzt, deren Abstand (t) einander gleich ist, und dass seine Laenge (s) mindestens die Haelfte, aber nicht mehr als das Doppelte des Abstandes (t) betraegt, so dass ein durch die Koerpermitte gelegter Querschnitt ein Quadrat oder einen Rhombus ergibt, dessen kleinere Innenwinkel wenigstens 45 be tragen. z. Baukoerper nach Anspruch i, dadurch gekennzeichnet, dass er Wuerfelform hat. 3. Baukoerper nach Anspruch i, dadurch gekennzeichnet, dass er bei Verwendung als Widerlagerstein die Form eines abgeschnit tenen Wuerfels hat, dessen Schnittflaeche (i) (Fig.9) mit der gegenueberliegenden Seite einen Neigungswinkel von 30 bzw. i50 aufweist und dass er bei Verwendung als Gewoelbestein rhombische Seitenflaechen be sitzt, die sich unter einem Winkel von 60' bzw. einem ganzzahligen Bruchteil davon neigen. 4. Gewoelbestein nach Anspruch 3, da durch gekennzeichnet, dass in bezug auf die rhombischen Seitenflaechen die Spitzen des Steines derart abgeschnitten sind, dass die dadurch entstehenden neuen Begrenzungs flaechen (1a) (Fig. 7) planparallel liegen und jeweils ein planparalleles Flaechenpaar (f) senkrecht schneiden, und dass die-Kanten (z) des Flaechenpaares (f) mit dem sich naehern den Flaechenpaar die Laenge der laengsten Kanten (p) der Flaeche (i) des Widerlager- steines (Fig. 9) besitzen. 5. Baukoerper nach Anspruch i bis 4, dadurch gekennzeichnet, dass er die Oxyde des Magnesiums, Chroms, Siliziums und Aluminiums derart zueinander abgestimmt enthaelt, dass der Zusammensetzung nach die Kieselsaeure durch Tonerde bzw. Tonerde und Chromoxyd, die Magnesia durch Chrom oxyd bzw. Chromoxyd und Tonerde nach einfach molekularem Verhaeltnis abgesaettigt ist und dass gegebenenfalls Chromoxyd oder Magnesia im ueberschuss vorhanden ist.

Machine translation: (claim 1) 1 CLAIMS: i From the melt flow cast, before preferably made of oxides of magnesium, chromium, silicon and aluminum GE-conceited, fireproof structure with coplanar Begrenzungsflaechen for which he direction of Siemens furnaces Martin and marked on their industrial combustion plants, thereby that it comprises at least two pairs of parallel planar Begrenzungsflaechen be seated, the distance (t) to each other is the same, and that its length (S) at least half, but not more than twice the distance (T), so that by the Koerpermitte defined cross section, a square or a rhombus is carrying the smaller interior angle be at least 45. such building structure according to Claim i, characterized in that it has Wuerfelform. Third Structural member according to Claim i, characterized in that it has when used as an abutment stone the shape of a truncated requested cube, having its Schnittflaeche (i) (Fig. 9) with the opposite side has an inclination angle of 30

or i5o and that it than when using Gewoelbestein rhombic side surfaces be seated, extending at an. Angle of 6o 'or an integral fraction tend thereof. 4th Gewoelbestein according to claim 3, since in that with respect to the rhombic side surfaces, the tips of the stone are cut off in such that the resulting new limiting surfaces (1a) (Fig. 7) plane-parallel lying and perpendicular respectively a plane-parallel Flaechenpaar (f), intersect and that the edges (z) of the Flaechenpaares (f) with the approach have the Flaechenpaar the length of the longest edges (p) of the surface (I) of the abutment block (Fig. 9). 5th Structure according to claim i to 4, characterized in that it contains the oxides of magnesium, chromium, silicon and aluminum are matched to each other such that the composition of the silicic acid with alumina or alumina and chromium oxide, chromium oxide or magnesia by chromium and clay is saturated by simple molecular relationship and that any excess over chromium oxide or magnesia in the present.

Classifications:
International (IPC 8-9): F27D1/04 (Advanced/Invention);
F27D1/04 (Core/Invention)
International (IPC 1-7): E04C1/26
CPC: F27D1/04
European: F27D1/04



Family:

Publication number	Publication date	Application number	Application date
DE583125 A	19330829	DE1929S095656D	19291219

Priority:
DE1929S095656 19291219

Probable Assignee: ARTHUR SPRENGER
Assignee(s): (std): ARTHUR SPRENGER

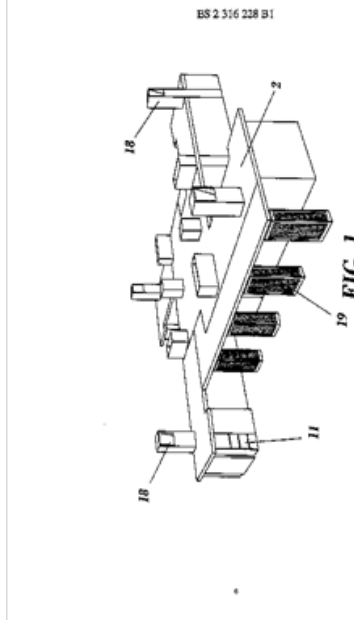
79) Family number: 43087471 (ES2316228B) © PatBase

Title: SISTEMA CONSTRUCTIVO PARA VIVIENDAS PREFABRICADAS MANUFACTURED HOUSING CONSTRUCTION SYSTEM (Machine translation)

Abstract: Source: ES2316228B [ES] Sistema constructivo para viviendas prefabricadas. Especialmente concebido para la obtencion de viviendas rurales de una planta destinadas a grupos de trabajadores temporeros, centra sus características en el hecho de que esta constituida mediante una pluralidad de modulos (3) a (19) que actuan simultaneamente como elementos estructurales, como cerramiento perimetral de la vivienda y como mobiliario de la misma, existiendo modulos - armario, modulos - cama, modulos - fregadero, etc., todos ellos de altura coincidente con la prevista para la vivienda y que se interacoplan lateralmente entre si determinando el citado cerramiento perimetral. Modulos especiales (17) configuran patios de luz, intercalandose con los anteriores y opcionalmente emergiendo por encima de la cubierta del edificio, a la vez que otros modulos (18) actuan como torres de ventilacion y tambien sobresalen sustancialmente por encima de cubierta. Se consigue de esta manera un alto grado de flexibilidad o versatilidad en la utilizacion de dichos modulos, una gran facilidadconstructiva con un alto grado de confort para el colectivo al que estan destinadas estas viviendas.

Machine translation: Construction system for manufactured homes. Specially designed for the collection of rural houses a plant for groups of temporary workers, is characterized in that is constituted by a plurality of modules (3) to (19) which simultaneously act as structural elements, as perimeter fence of the house and furniture the same as, existing modules - cabinet modules - bed modules - sink, etc., all high coincident with that provided for the housing, and to each side interacoplan determining the quoted perimeter fence. Special modules (17) configured light wells, interspersed with the above and optionally emerging above the roof of the building, while other modules (18) act as ventilation towers and also protrude substantially above the deck. It gets this way a high degree of flexibility and versatility in the use of these modules, a large facilidadconstructiva with a high degree of comfort for the group to which these homes are intended.

Classifications:
International (IPC 8-9): E04B1/348 E04H1/02 (Advanced/Invention)
CPC: E04B1/34815 E04H1/02
European: E04B1/348C E04H1/02

**Family:**

Publication number	Publication date	Application number	Application date
ES2316228 AA	20090401	ES20060000763	20060324
ES2316228 BA	20100105	ES20060000763	20060324

Priority:

ES20060000763 20060324

Probable Assignee: TERRADOS CEPEDA FRANCISCO JAVI**Assignee(s):** (std): TERRADOS CEPEDA FRANCISCO JAVI ; TERRADOS CEPEDA FRANCISCO JAVIER**Assignee(s):** FRANCISCO JAVIE TERRADOS CEPEDA ; TERRADOS CEPEDA FRANCISCO JAVIE**Inventor(s):** (std): TERRADOS CEPEDA FRANCISCO JAVIER**Inventor(s):** FRANCISCO JAVIE TERRADOS CEPEDA**80) Family number: 19086479 (US3731448A)**

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Title: DUCT TERMINATOR

Abstract: A duct terminator for use in the concrete wall of an underground vault, or the like, for housing electrical equipment, such terminator including a pair of barrier walls spaced apart at a distance substantially corresponding to the thickness of the concrete wall. A plurality of spaced receptacles extend between the barrier walls to form through passages for receipt of the extremities of a plurality of respective ducts whereby the terminator may be positioned in the concrete form for the vault wall and concrete poured thereinto to provide a plurality of spaced passages in the vault wall for receipt of the extremities of such ducts. The terminator may be made in modular form and may be formed with interlocking flanges whereby a plurality of modules may be assembled for forming a composite receptacle pattern of any desired configuration.

Classifications:

International (IPC 8-9): E02B9/06 E02F5/10 F16L1/038 F16L39/00 F16L5/00 F16L5/02 H02G9/10 (Advanced/Invention); E02B9/00 E02F5/10 F16L1/028 F16L39/00 F16L5/00 F16L5/02 H02G9/00 (Core/Invention)

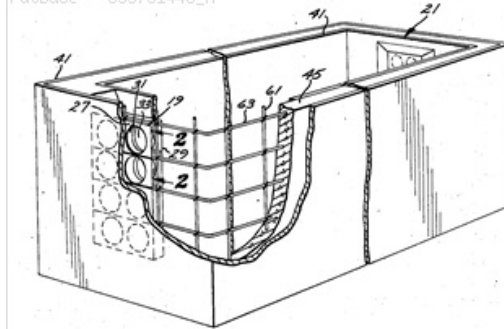
International (IPC 1-7): E04C1/39 E04C2/52 E04F17/08 E04G15/00 F16L5/00 F16L5/02 H02G15/00 H02G9/00 H02G9/10

CPC: H02G9/10 H02G3/22 F16L39/00 F16L5/00

European: F16L39/00 F16L5/00 H02G9/10

US: 138/112 174/37 249/83 52/20 52/220.8 52/589.1 52/592.1 52/594 52/606

PatBase - US3731448_A



JP50016519 B4	19750613	JP19700075255	19700827
US3731448 A	19730508	US19710204426	19711203

Priority:

US19690853727 19690828 US19710204426 19711203 FR19720033758 19720922

Probable Assignee: FORMEX MANUF INC

Assignee(s): (std): FORMEX MANUF INC ; FORMEX MANUFACTURING INC ; FORMEX MFG INC 3217 CARTER AVENUE VENICE CALIFORN ; FORMEX MFG INC

Assignee(s): FORMEX MFG INC VENICE CALIF V ST A ; FORMEX MFG INC 3217 CARTER AVENUE VENICE CALIFORNI ; FORMEX MFG INC 3217 CARTER AVENUE VENICE CALIFORNIA E U A ; LEO HERBERT S ; FORMEX MFG ; FORMEX MANUFACTURING INC VENICE CALIF US ; FORMEX MANUFACTURING INC VENICE CALIF V ST A ; FORMEX MANUF INC US

Inventor(s): (std): LEO H ; LEO HERBERT S DECEASED ; LEO HERBERT S ; LEO VERSTORBEN HERBERT S

Inventor(s): LEO H US ; LEO VERSTORBEN HERBERT S SANTA MONICA CALIF US ; LEO HERBERT S VERSTORBEN

81) Family number: 1430482 (DE2205922A1)

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Title: AUTOTRANSPORTIERTE PUMPGRUPPE FUER BETONGUSS, IM BESONDEREN BEIM BAU VON TUNNELS, UND BETONGUSSVERFAHREN FUER KALOTTENBOEGEN IN TUNNELS UNTER ANWENDUNG DES GENANNTEN KOMPLEXES TRANSPORTED AUTO GROUP FOR CONCRETE PUMPING IRON, IN PARTICULAR FOR THE CONSTRUCTION OF TUNNELS AND CONCRETE CASTING FOR KALOTTENBOEGEN IN TUNNEL UNDER APPLICATION OF THAT COMPLEX (Machine translation)

Abstract: Source: DE2205922A1 [DE] Patentansprueche 1 Autotransportierter Pumpkomplex fuer Betonguss oder der gleichen, im besonderen beim Bau von Tunnels, dabei von einer Art mit Pumpmittel zur Speisung eines, an einem Auslegergelenkarm montierten Betonschuettrohrs, wo ersterer auf einer in wesentlichen um ihre senkrechte Achse drehbaren Drehscheibe aufruht, dadurch gekennzeichnet, dass der genannte Auslegerarm aus wenigstens zwei Teilen gebildet ist, wovon das erste Teil mit der Drehscheibe um eine horizontale Achse verbolzt ist, auf welche letzterer mittel zur Kontrolle ihrer Drehung untergebracht sind, und das zweite Teil mit einem freien Ense in parallel horizontaler Lage zum ersten Teil verbolzt ist, wobei sich das besagte zweite Armteil durch ein Lagen-Steuerungssystem in Bezug zu den beiden Befestigungspunkten oder Verbolzungen zur Drehscheibe und einem Punkt der ersten Verbolzung gegenueber eine kontrollierbare Verstellung des zweiten Armteils zulaesst 2.

Machine translation: Claims 1 car transported pump complex for concrete casting or the like, in particular the construction of tunnels, is of a type with pump means for supplying a marked in a Auslegergelenkarm mounted Betonschuettrohrs, where the former rests on a substantially about its vertical axis rotating turntable, thereby that the said extension arm is formed from at least two parts, with the first part is bolted to the hub about a horizontal axis on which the latter are medium untergebracht to control its rotation, and the second part with a free Ense in parallel to the horizontal position first part is bolted, with the arm opposite said second layer by a control system with respect to the two attachment points, or bolting to the hub and a point of first bolting a controllable adjustment of the second Armteils permits second

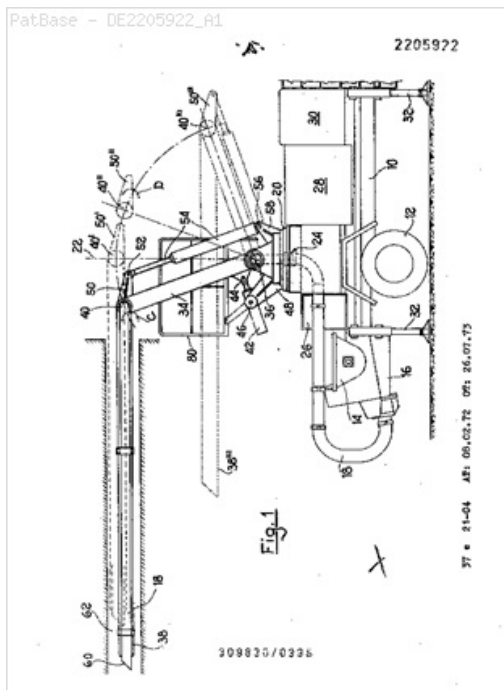
Classifications:

International (IPC 8-9): E04G21/04 E21D11/10 (Advanced/Invention); E04G21/04 E21D11/10 (Core/Invention)

International (IPC 1-7): B28B E01G E04G21/04 E21D11/10

CPC: E04G21/0436 E21D11/105 E04G21/04

European: E04G21/04 E21D11/10C



Family:

Publication number	Publication date	Application number	Application date
CH562945 A	19750613	CH19730000101	19730105
DE2205922 A1	19730726	DE19722205922	19720208
ES410893 A1	19760401	ES19730410893	19730113
IT946523 A	19730521	IT19720019305	19720113

Priority:

IT19720019305 19720113

Probable Assignee: WORTHINGTON SOC ITALIANA POMPE

Assignee(s): (std): WORTHINGTON P SOC IT ; WORTHINGTON SOC ITALIANA POMPE ; WORTHINGTON SOCIETA ITALIANA P ; WORTHINGTON SOCIETA ITALIANA ; WORTHINGTON SPA

Assignee(s): WORTHINGTON SOCIETA ITALIANA POMPE E COMPRESSORI ; WORTHINGTON SOCIETA ITALIANA POMBE E COMPRESSORI SPA ; WORTHINGTON SOC ITALIANA POMPE E COMPRESSORI SPA ; WORTHINGTON POMBE E COMPRESSORI SOC IT SPA

Inventor(s): (std): FUMAGALLI ENOS ; FUMAGALLI E

82) Family number: 33094494 (US2007251161A)

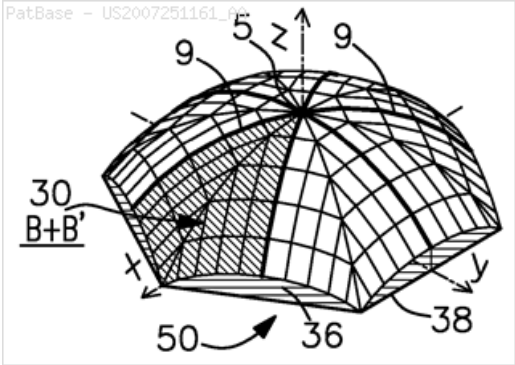
© PatBase

Title: DOUBLE-CURVED SHELL

Abstract: Triangulated shells can be free-formed but are uneconomical compared to translational shells that can only be flat. Scale-trans shells are limited in terms of number and arrangement of the openings. The present invention provides a free-formed, custom-tailored shell surface and a regularly shaped, mass-produced shell surface that can be assembled fairly evenly from advantageously quadrangular mesh elements having coplanar node points. The flexibility of a triangle net of shell pieces in a large scale is combined with the evenness of a quad net for meshes in a small scale, whereby triangular meshes at the shared side of adjoining square nets are combined in pairs to give irregular quadrangular meshes having coplanar vertices. The inventive shell is especially suitable for use as an energy-saving building such as a weekend home, emergency shelter, cupola of an observatory, roof of a building or an inner courtyard, as the shell of a large multi-story building or as a sports hall or factory building. It is also suitable as a part of a vault, and as a complex shell consisting of a single continuous surface for exhibition or station buildings. Parts of a Bohemian dome, cushion-roof, Isler shell or blob can be combined within any individual shell.

Classifications:

International (IPC 8-9): E04B1/32 E04B1/38 E04B2/60 E04B7/00 E04B7/08 E04B7/10 (Advanced/Invention); E04B1/32 E04B1/38 E04B2/58 E04B7/00 E04B7/08 E04B7/10 (Core/Invention)
CPC: E04B7/102 E04B2001/3276 E04B2001/3294
European: E04B7/10B P04B1/32P1 P04B1/32S
US: 52/80.1 52/80.2 52/81.4 52/81.5



Family:

Publication number	Publication date	Application number	Application date
DE102004061485 A1	20060629	DE200410061485	20041221
DE102004061485 B4	20121018	DE200410061485	20041221
US2007251161 AA	20071101	US20070766219	20070621
US7591108 BB	20090922	US20070766219	20070621
WO06066677 A1	20060629	WO2005EP12450	20051121

Priority:

DE200410061485 20041221 WO2005EP12450 20051121

Probable Assignee: TUCZEK FLORIAN

Assignee(s): (std): TUCZEK FLORIAN

Assignee(s): TUCZEK

Inventor(s): (std): TUCZEK FLORIAN

Agent(s): DARBY AND DARBY PC; DARBY AND DARBY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

83) Family number: 12595494 (US5526616A)

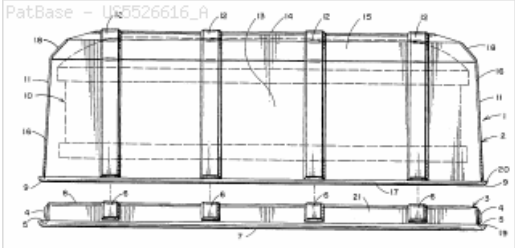
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Title: Burial vault

Abstract: A burial vault (1) designed to hold a standard casket (10), having a dome-like cover unit (2) and a generally rectangular base unit (3), each unit being of the same size so as to mate together around the edges (19,20) at a joint section. The cover unit has a plurality of interconnecting reinforcing ribs (15) running lengthwise along side walls (13) and end walls (11), across a top wall (14) and vertically down the side and end walls of the cover unit. The vertical ribs (16, 12) on the end of the side walls are sufficiently open and wide enough on a bottom end to fit over and interlock with ribs (6) on side walls (21) of the base unit. The joint section around the edges of the units consists of concave flange (9) in the cover unit which is received by a concave flange (5) in the base unit when the units are mated to form a burial vault. A sealing material (22), such as an elastomeric material like Butyl rubber, may be placed between the flanges prior to mating so as to provide a seal to prevent intrusion of moisture, leaking of chemicals or the extrusion of chemicals or gases from within the vault into the ground water. Thus, this improved burial vault not only provides a much stronger vault due to its interconnecting and interlocking ribs, but an environmentally-safe vault as well.

Classifications:

International (IPC 8-9): E04H13/00 (Advanced/Invention); E04H13/00 (Core/Invention)
International (IPC 1-7): E04H13/00
CPC: E04H13/00
European: E04H13/00
US: 52/138 52/142 521/380



Family:

Publication number	Publication date	Application number	Application date
US5526616 A	19960618	US19950506422	19950724

Priority:

US19950506422 19950724

Probable Assignee: VKM INT**Assignee(s):** (std): BAMBERG DAVID J**Assignee(s):** GUARDIAN VAULT INC ; VKM INT**Inventor(s):** (std): BAMBERG DAVID J**84) Family number: 31314495** (ES2216668B)

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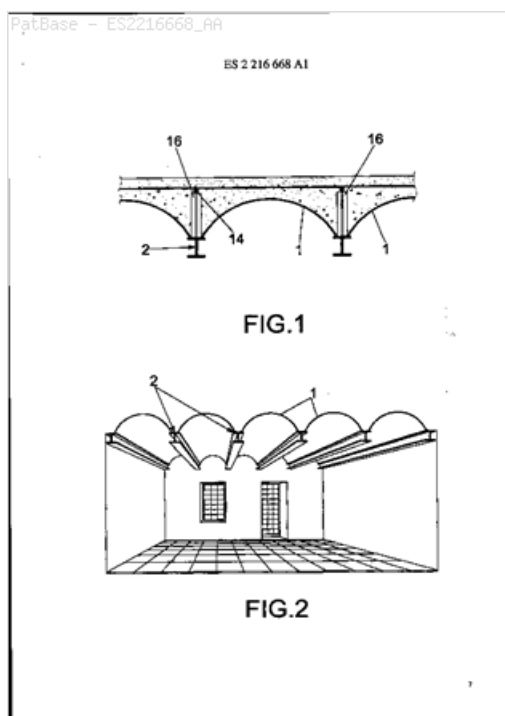
Title: DISPOSITIVO DE FORJADO CON FORMACION DE BOVEDAS LAMINARES

Abstract: Source: ES2216668B [ES] Dispositivo de forjado con formacion de bovedas laminares. El forjado esta realizado con perfiles (2, 4, 5) de acero, madera o cualquier material resistente a la traccion, con formacion de bovedas laminares, o planchas (1) curvadas, de luz y flechas variables, encajadas entre los nervios (2) previamente dispuestos segun el replanteo de la obra, para hormigonar *in situ* constituyendo vigas mixtas de alta capacidad a la flexion y de alta calidad estetica. La boveda que completa los forjados es de una unica pieza y los bordes de las planchas de acero (1) o similar incluyen puntos de soldadura de seguridad por encima de los nervios o vigas (2), no siendo visibles por el interior del forjado. El material de las bovedas tambien puede ser plastico o incluso madera, fijandose en este caso los bordes con grapas u otro tipo de anclajes.

Classifications:**International (IPC 8-9):** E04B5/02 E04B5/23

E04B5/29 (Advanced/Invention);

E04B5/02 E04B5/17 (Core/Invention)

International (IPC 1-7): E04B5/02 E04B5/23 E04B5/29**Family:**

Publication number	Publication date	Application number	Application date
ES2216668 AA	20041016	ES20020000420	20020221
ES2216668 BA	20051216	ES20020000420	20020221

Priority:

ES20020000420 20020221

Probable Assignee: PROMOCIONES SIERRA DE GUILLENA**Assignee(s):** (std): PROMOCIONES SIERRA DE GUILLENA**Assignee(s):** PROMOCIONES SIERRA DE GUILLENA S L ; PROMOCIONES SIERRA DE GUILLENA SL**Inventor(s):** (std): ORTEGA CAMARA RAMON**85) Family number: 7191495** (US4128981A)

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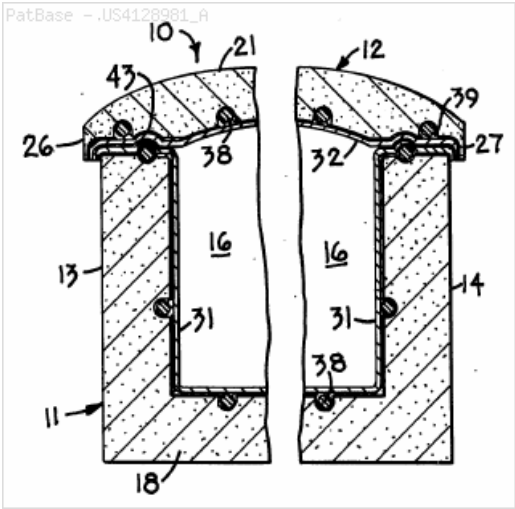
Title: Burial vault

Abstract: A burial vault is provided including concrete wall portions and a plastic resinous liner. The liner is adhered to the wall portions, at the time of pouring the concrete, utilizing contact adhesive preferably polychloroprene cement. The vault may include adhesive coated reinforcement.

Classifications:**International (IPC 8-9):** E04H13/00 (Advanced/Invention);

E04H13/00 (Core/Invention)

CPC: E04H13/00**European:** E04H13/00



Family:

Publication number	Publication date	Application number	Application date
US4128981 A	19781212	US19770770633	19770222

Priority:

US19770770633 19770222

Probable Assignee: FULLER H B CO

Assignee(s): (std): FULLER H B CO

Assignee(s): H B FULLER COMPANY ; HB FULLER LICENSING AND FINANCING INC

Inventor(s): (std): JUBA BERNARD T

86) Family number: 67614500 (ES2643756B)

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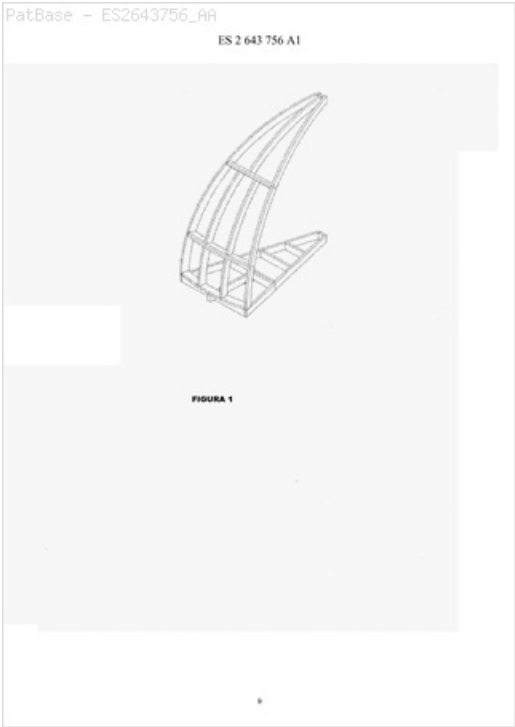
Title: SISTEMA DE EDIFICACION MODULAR

Abstract: Source: ES2643756B [ES] La presente invencion se refiere a un sistema de modulos prefabricada con funcionalidad independiente, transformable y apilable mediante el cual se realizan construcciones con formas curvas basadas en media esfera (forma de iglu o cupula) y medio cilindro (forma de boveda de canon).#La funcionalidad de cada modulo consiste en que cada uno de ellos esta fabricado incorporando las instalaciones para un uso especifico, como el modulo ventana que incorpora el hueco de esta y su ventana, el modulo bano que incorpora los sanitarios, al igual que el resto con sus respectivas funciones, pudiendo colocarlos en cualquier posicion aclopandose siempre con el adyacente. De esta manera se pueden conseguir multitud de configuraciones y por tanto de edificaciones y usos, por ejemplo: vivienda, refugio, cabana, cobertizo, almacen, casa de campo o playa, oficina, guarderia, centro de reuniones, suite de hotel o camping, etc. Es un sistema apilable pudiendo crear varias plantas, culminando con un cerramiento en forma de cupula o boveda. Los paneles que lo componen se pueden desmontar y cambiar por otros con distintas funciones transformando el uso y la forma de la edificacion en cualquier momento sin tener que desmontar el resto. Incorpora un sistema de tabiqueria modular en forma de semicirculo que sirve tanto para crear fachadas como para dividir espacios interiores.

Classifications:

International (IPC 8-9): E04B1/32 E04B7/08 (Advanced/Invention)

CPC: E04B1/3211 E04B1/3205 E04B2001/327



Family:

Publication number	Publication date	Application number	Application date
ES2643756 AA	20171124	ES20160000352	20160418
ES2643756 BA	20180913	ES20160000352	20160418

Priority:

ES20160000352 20160418

Probable Assignee:

XILACURVE S L

Assignee(s): (std):

XILACURVE S L

Assignee(s):

XILACURVE SL

Inventor(s): (std):

CAMPOS CALEJO JUAN JOSE

Inventor(s):

JUAN JOSE CAMPOS CALEJO

87) Family number: 18799511 (GB344813A)

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Title: IMPROVEMENTS IN OR RELATING TO SLABS OR LIKE ELEMENTS FOR BUILDING PURPOSES

Abstract: 344,813. Building and flooring slabs; roofing sections; floors;; domes. MATHMAH GES., 35, Kirchstrasse, Wiesbaden, Germany. Dec. 3, 1929, No. 37034. Convention date, Dec. 5, 1928. [Classes 20 (iv) and 87 (i).] A wall or floor slab or section of a dome or vaulted support, of the kind which comprises a flat skeleton or grid member of concrete or the like, with or without reinforcement, the cells of the grid being filled with solid or hollow members of a sound -deadening and heat insulating light material, is provided with projections on its edges for interengagement with adjacent slabs. The slab is made by spacing g filler-blocks both longitudinally and laterally and running concrete into the intervening spaces to form the concrete lattice or grid, with or without an integral covering layer of concrete on one or both faces of the slab. Fig. 1 shows a construction in which the chamfered solid or hollow filler-blocks 4, made of straw or fibrous material together with a binder and a filler such as pumice, sand, lava, or the like, are placed on an initial concrete layer 1, 3 with embedded reinforcement 2. Concrete is then run in to form the lattice or grid 5 of I-section and the upper covering layer 8 which is reinforced and provided with two sets of grooves 11 at right-angles on the outer face. Sets of studs 15 for interconnection are formed on the sides and ends of the slabs. The grid structure may be reinforced in both directions, for example by rods 6. The hollow filler-blocks may be made in two parts cemented together in a vertical plane, as shown in Fig. 2, and laid in the slab in this position.

Classifications:

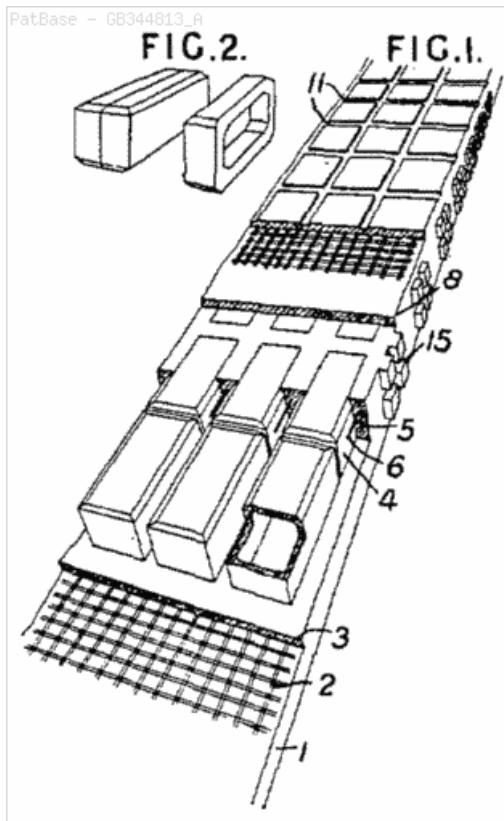
International (IPC 8-9): E04B5/32 (Advanced/Invention);

E04B5/32 (Core/Invention)

International (IPC 1-7): E04B5/19

CPC: E04B5/326 E04B5/32

European: E04B5/32



Family:

Publication number	Publication date	Application number	Application date
GB344813 A	19310303	GB19290037034	19291203

Probable Assignee: MATHMAH GMBH

Assignee(s): (std): MATHMAH GMBH

Assignee(s): MATHMAH GES MIT BESCHRANKTER HAFTUNG ; MATHMAH GESELLSCHAFT MIT BESCHRANKTER HAFTUNG

88) Family number: 3756511 (US4642949A)

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Title: Method of joining curvilinear structural insulating panels and the like and improved joined panel structure

Abstract: A method of cutting curvilinear panels with ellipsoidal cuts and joining the abutted edges of the same with a slight gap therebetween by batten-like surfaces overlapping the edges on both the outer and inner cover sheets of the panel and sealing the gap therebetween-the batten-like surfaces being preferably bonded layers, and the method being adapted to

accomodate complicated joining seams, bends and curves.

Classifications:

International (IPC 8-9): E04B1/32 (Advanced/Invention);

E04B1/32 (Core/Invention)

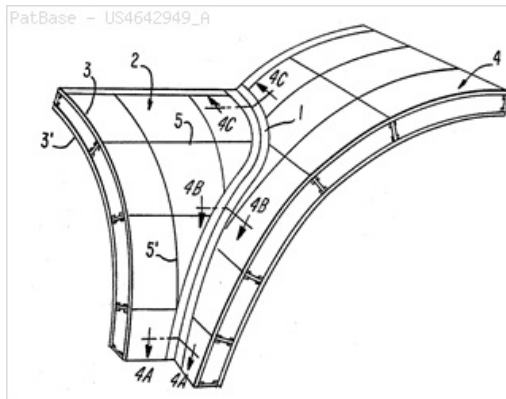
International (IPC 1-7): E04B1/32

CPC: E04B1/32 E04B2001/3276 E04B2001/3288

European: E04B1/32 P04B1/32P1 P04B1/32P2

US: 52/245 52/741 52/745.08 52/80 52/81.1

PatBase - US4642949_A



Family:

Publication number	Publication date	Application number	Application date
CA1281161 A1	19910312	CA19870529568	19870212
US4642949 A	19870217	US19860844838	19860327

Priority:

US19860844838 19860327

CA19870529568 19870212

Probable Assignee:

KALWALL CORP

Assignee(s): (std):

KALWALL CORP

Assignee(s):

HOPPER THOMAS P

Inventor(s): (std):

HOPPER THOMAS P

Agent(s):

MACRAE AND CO

89) Family number: 70604514 (CO20160005865A)

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Title: CONJUNTO ESTRUCTURAL Y CONSTRUCTIVO QUE PERMITE CONFORMAR BOVEDAS Y CUPULAS And constructive structural assembly that allows forming vaults and domes (Machine translation)

Abstract: Source: CO20160005865A [ES] Se reivindica un conjunto estructural y constructivo que permite conformar estructuras tubulares de bovedas y cupulas como estructuras de rapido y facil montaje, basandose para ello en cinco piezas basicas con las que se construyen uniones moviles, las cuales unidas a barras permiten conformar las estructuras arqueadas. Los elementos del sistema estan prefabricados y el armado se hace a nivel del suelo, para luego dar la curvatura de la estructura con unos empujes laterales. Las estructuras conformadas ofrecen diferentes usos como pueden ser los equipamientos deportivos y culturales, entre otros. Es posible aplicar las uniones para trabajar con diferentes tipos de material para las barras, dependiendo del uso y el presupuesto de que se disponga.

Machine translation: A structural assembly and constructive claimed that allows forming tubular structures of vaults and domes as fast and easy assembly, based on five basic parts that are constructed mobile joints, which attached to bars allow form arcuate structures. The elements of the system are prefabricated and the assembly is done at the level of the ground, and then give the curvature of the structure with lateral thrust. The structures formed offer different uses such as sporting and cultural facilities, among others. It is possible to apply the connections to work with different types of material for the rods, depending on the use and the budget available.

Classifications:

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

Family:

Publication number	Publication date	Application number	Application date
CO20160005865 A1	20180710	CO20160005865	20161227

Priority:

CO20160005865 20161227

Probable Assignee: UNIV NACIONAL DE COLOMBIA

Assignee(s): (std): UNIV NACIONAL DE COLOMBIA

Assignee(s): UNIVERSIDAD NACIONAL DE COLOMBIA

Inventor(s): (std): COCA NEUSA SINDY MARCELA ; LINARES MENDOZA GABRIEL ; LOZANO PENA JORGE ENRIQUE

Inventor(s): SINDY MARCELA COCA NEUSA ; GABRIEL LINARES MENDOZA ; JORGE ENRIQUE LOZANO PENA

Agent(s): MARIA DE LOS ANGELES PINZON GOMEZ

90) Family number: 31379515 (US2005077167A)

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Title: INORGANIC WASTE-RECYCLING MACHINE AND METHOD FOR THE PRODUCTION OF A MOULDABLE PASTE HAVING VARIOUS USES

Abstract: This invention refers to a machine and a process for recycling inorganic and organic trash and obtention of a molding paste for different usages, this machine is formed basically by; one hydraulic piston, a pushing plate, a receptor camera, one reactor, one pump and a heater equipment. Likewise, said machine is involved in a process, which stages are essential in order to obtain the hot molding paste with the adequate characteristics; that when cooling, is transformed into products substituting wood and materials for construction; such as bricks, vaults, floors, paving blocks, tiles, floor edges, etc. This products will not be corrupted by humidity or moth, do not become rotten and can be cut, machined, etc. This machines does not require water in its industrial process, nor requires to wash the trash that is processed, does not pollute, has a low operation cost, since it is efficient and can be operated by just one person. This invention will benefit people and

Classifications:

E04B2/02 (Core/Invention);

B29B (Subclass/Non-invention)

International (IPC 1-7): B09B3/00 B29B17/00 C10B51/00 C10B9/00
E04B2/02

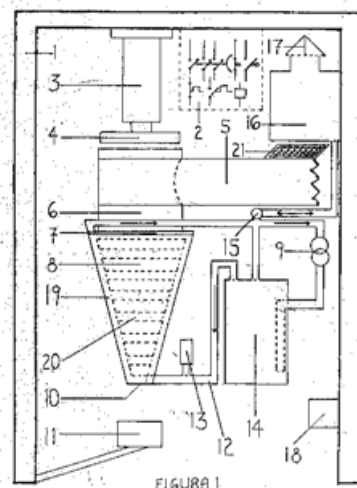
CPC: Y02W30/62 B29B17/0042 B29L2031/10 B29L2031/7324

European: B29B17/00D4 L29L31/10 L29L31/7324

US: 202/96 202/96P

PatBase - US2005077167 AA

Parent Application Publication Apr. 14, 2005 Sheet 1 of 3 US 2005/0077167 A1



Publication number	Publication date	Application number	Application date
AP1615 A	20060523	AP20040003102	20030307
AP200403102 A0	20040930	AP20040003102	20030307
AU2003218825 AA	20030922	AU20030218825	20030307
BRPI0308283 A	20041228	BR2003PI08283	20030307
CA2474977 AA	20030918	CA20032474977	20030307
CN1694789 A	20051109	CN20038005585	20030307
CR7455 S	20070907	CR20040007455F	20040901
EA007242 B1	20060825	EA20040001004	20030307
EA200401004 A1	20050630	EA20040001004	20030307
EP1484147 A1	20041208	EP20030713070	20030307
HK1081148 A1	20060512	HK20060103775	20060325
HK1081148 A3	20060512	HK20060103775	20060325
IL163348 A0	20051120	IL20040163348	20040804
IN01964CN2004 A	20060224	IN2004CN01964	20040902
JP2005519739 T2	20050707	JP20030574405T	20030307
KR20040102032 A	20041203	KR20047014018	20030307
MXJL04000029 A1	20041213	MX2004JL00029	20040907
NO20043736 A	20040907	NO20040003736	20040907
NO20043736 L	20040907	NO20040003736	20040907
NZ534711 A	20070831	NZ20030534711	20030307
OA12783 A	20060710	OA20041000235	20030307
PL370579 A1	20050530	PL20030370579	20030307
UA78984 C2	20070510	UA20040907362	20030307
US2005077167 AA	20050414	US20040506582	20040903
WO03076154 A1	20030918	WO2003MX00025	20030307
YU71204 A	20060116	YU20040000712	20030307
ZA200407144 A	20060726	ZA20040007144	20040907

MX2002JL00008 20020308 MX2002JL00008U 20020308 WO2003MX00025 20030307
MX2004JL00029 20040907

Probable Assignee: GONZALEZ SALAZAR JOSELUIS

Assignee(s): (std): FRANCISCO EDUARDO GONZALEZ PRECIADO ; GONZALES PRECIADO FRANCISCO E ; GONZALEZ SALAZAR JOSE LUIS ; GONZALES SALAZAR JOSE LUIS ; GONZALEZ PRECIADO FRANCISCO ED ; GONZALES PRECIADO FRANCISCO ED ; GONZALEZ FRANCISCO EDUARDO PRE ; GONZALES SALAZAR JOSE L ; GONZALEZ PRECIADO FRANCISCO EDUARDO ; SALAZAR JOSE LUIS GONZALEZ ; PRECIADO FRANCISCO EDUARDO GON ; JOSE LUIS GONZALEZ SALAZAR ; GONZALEZ SALAZAR JOSELUIS ; GONZILEZ PRECIADO FRANCISCO EDUARDO ; GONZILEZ SALAZAR JOSELUIS ; FRANCISCO EDUARDO GONZALEZ PRE

Assignee(s): FRANCISCO EDUARDO GONZALEZ PRECIADO ; FRANCISCO EDUARDO GONZALEZ SALAZAR ; GONZALEZ SALAZAR JOSE LUIS AND GONZALEZ PRECIADO FRANCISCO EDUARDO ; GONZALEZ FRANCISCO EDUARDO PRECIADO ; GONZALES PRECIADO FRANCISCO EDUARDO

Inventor(s): (std): GONZALEZ SALAZAR JOSE LUIS ; GONZALES SALAZAR JOSE LUIS ; GONZALEZ PRECIADO FRANCISCO ED ; SALAZAR JOSE LUIS GONZALEZ ; PRECIADO FRANCISCO EDUARDO GON ; GONZALES PRECIADO FRANCISCO ED ; FRANCISCO EDUARDO GONZALEZ PRE ; GONZALEZ SALAZAR JOSE L ; GONZALES PRECIADO FRANCISCO E ; GONZILEZ SALAZAR JOSELUIS ; GONZILEZ PRECIADO FRANCISCO EDUARDO ; GONZALEZ FRANCISCO EDUARDO PRE ; GONZALEZ JOSE LUIS SALAZAR ; GONZALEZ PRECIADO FRANCISCO EDUARDO ; FRANCISCO EDUARDO GONZALEZ PRECIADO ; GONZALEZ FRANCISCO EDUARDO PRECIADO ; JOSE LUIS GONZALEZ SALAZAR ; ED GONZALEZ SALAZAR JOSE LUIS

Inventor(s): GONZALEZ SALAZAR JOSE LUIS GONZALEZ PRECIADO ; GONZALEZ SALAZAR JOSE LUIS GONZALEZ PRECIADO FRANCISCO ED ; GONZALEZ SALAZAR JOSE LUIS AND GONZALEZ PRECIADO FRANCISCO EDUARDO ; GONZALEZ SALAZAR JOSE LUIS GONZALEZ PRECIADO FRANC ; GONZALES PRECIADO FRANCISCO EDUARDO

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; EMILY YIP AND CO
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

91) Family number: 33992530 (US2006277837A)

© PatBase

Title: BUILDING STRUCTURE AND METHOD

Abstract: A net layer (32) defines the shell (40) of a building, carried by any necessary supports. A hardening layer (34) is applied to fix the shape of the net layer (32) and to establish wall, roof, and floor. Optionally the shell is of sufficient strength to receive application of further layers in order to define an exoskeleton. Structures of roof sections include parallel-sided segments and converging-sided segments, with troughed or domed section shapes. Structures of walls include opposed shell sides (35), (78) and central filler layers (70), together defining an exoskeleton. Posts (72) can add additional structural capacities for supporting walls, roof and floor and can be formed integrally of net (32) and hardener (34).

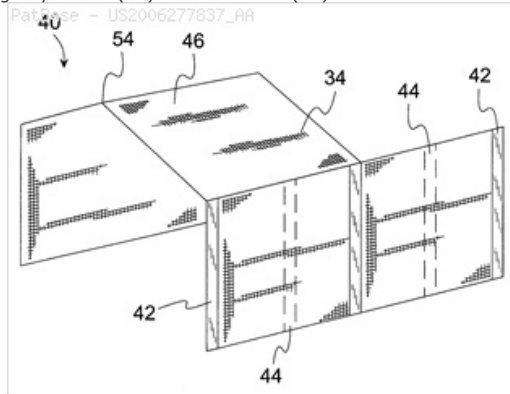
Classifications:

International (IPC 8-9): E04B1/00 E04B1/62 E04B1/66 E04B5/00 E04B9/00 E04C2/20 E04C2/54 E04F13/04 E04H1/00 E04H15/00 E04H15/34 E04H15/54 E04H6/00 E04H9/00 (Advanced/Invention); E04H6/00 (Core/Invention)

CPC: E04H15/54 E04H15/34 E04H9/00 E04B1/161 E04B2/845 E04B7/08 E04B7/12 E04B2001/0061 E04C5/07

European: E04B1/16A E04B7/08 E04B7/12 E04C5/07 P04B1/00S2 P04B2/84P2

US: 52/309.1 52/309.100S 52/411 52/449 52/452 52/515 52/515S 52/516 52/63 52/63P 52/741.4 52/741.400S 52/745.05 52/745.050P 52/745.06 52/745.060S 52/745.19 52/745.190S 52/783.1 52/783.14 52/783.15 52/783.16 52/783.17 52/783.18 52/783.19 52/79.1 52/79.100P



Family:

Publication number	Publication date	Application number	Application date
US2006277837 AA	20061214	US20060309015	20060608
US2012102875 AA	20120503	US20110337885	20111227
US2012186165 AA	20120726	US20120436123	20120330
US2014338269 AA	20141120	US20140448342	20140731
US8104233 BB	20120131	US20060309015	20060608
US8627612 BB	20140114	US20110337885	20111227
US8813433 BB	20140826	US20120436123	20120330

Priority:

US20050595139P 20050608 US20060309015 20060608 US20110337885 20111227
US20120436123 20120330 US20140448342 20140731

Probable Assignee: WILSEY MARK E

Assignee(s): (std): WILSEY MARK E

Inventor(s): (std): WILSEY MARK E

Inventor(s): WILSEY MARK

Agent(s): KYLE W ROST; THE MARBURY LAW GROUP PLLC; MARBURY LAW GROUP PLLC

92) Family number: 4812530 (US5058332A)

© PatBase

Title: Domed structures having retractable roofs

Abstract: A domed structure having a retractable roof comprises an inside field area, a ringed structure vertically provided around said field area, two tracks laid out on the top of said ringed structure and two movable semi-vaults travelling separately on said two annular tracks, which are put one over the other when the roof is opened and are located in opposite relation to each other when the roof is formed, thereby providing a domed roof as a whole. The annular tracks laid out on the top of said ringed structure may have a gradient rising with respect to the direction of solar radiation.

Classifications:

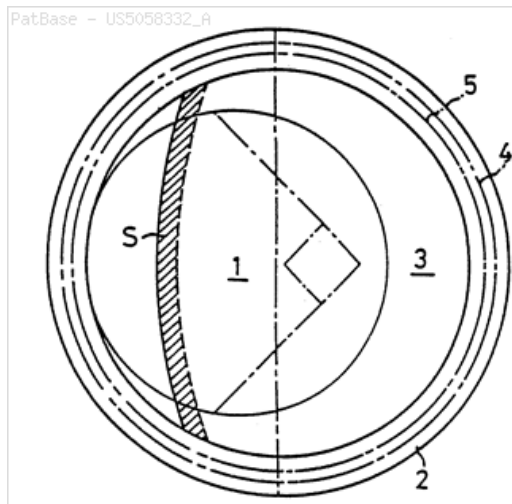
International (IPC 8-9): E04B1/32 (Advanced/Invention)

International (IPC 1-7): E04B1/32 E04B1/346 E04B7/16

CPC: E04B7/102 E04B7/163

European: E04B7/10B E04B7/16P

US: 52/64 52/66

**Family:**

Publication number	Publication date	Application number	Application date
JP2210130 A2	19900821	JP19890030527	19890209
US5058332 A	19911022	US19890418638	19891010

Priority:

JP19890030527 19890209

Probable Assignee: TOBISHIMA CONSTRUCT CO LTD**Assignee(s):** (std): TOBISHIMA CONSTRUCT CO LTD**Assignee(s):** TOBISHIMA CORP

Inventor(s): (std): CHIBA SHINJI ; FUNABASHI YUKITSUGU ; FUNAHASHI KOJI ; HAMANO YOSHIKATSU ; HAMANO YOSHINORI ; HOTTA KIYOSHI ; MASUYAMA JOE ; MASUYAMA YUZURU ; MIKURIYA KOJI ; ONISHI KATSUYUKI ; SUGAWARA JUNICHI ; TAKAHASHI YUJI ; TAKAI TSUNEO

93) Family number: 74606536 (WO19109056A1)

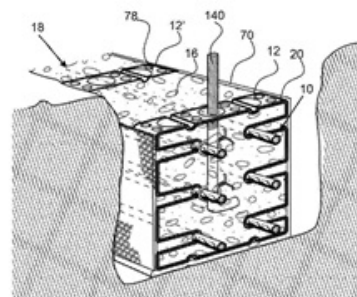
© PatBase

Title: SEISMIC FOUNDATION FRAMER AND METHOD OF FORMING A FOUNDATION USING SAME

Abstract: A plurality of seismic foundation frames are utilized to secure rebar in a fixed location to produce a cementitious supporting form that is embedded in the poured concrete and reinforces the concrete. The frame has an open construction with a plurality of openings to allow the concrete to flow therethrough and to provide increased surface area for reinforcement. The frame has pin openings and rebar openings for receiving and retaining pins or rebar respectively, such as when the frames are stacked. A frame has rebar retainers for retaining rebar that extends perpendicularly to the surface of the frame to a second frame at an offset distance. A flexible containment sleeve is configured around the frames and may be fastened to the frame to create a sleeved form for receiving a cementitious mix. The containment sleeve has apertures for controlled permeation to control the rate of cure of the cementitious mix.

Classifications:**International (IPC 8-9):** B28B11/24 E04C5/16 (Advanced/Invention)

PatBase - W019109056_A1

**FIG. 9****Family:**

Publication number	Publication date	Application number	Application date
WO19109056 A1	20190606	WO2018US63519	20181201

Priority:

US20170593363P 20171201

Probable Assignee: ARMATRON SYSTEMS LLC**Assignee(s):** (std): ARMATRON SYSTEMS LLC**Inventor(s):** (std): GILES BRIAN**Inventor(s):** GILES BRIAN C**Agent(s):** HOBSON ALEX

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: VACUUM INSULATION PANEL - [WHICH PREVENTS HEAT LOSS OR HEAT GAIN IN A BUILDING]

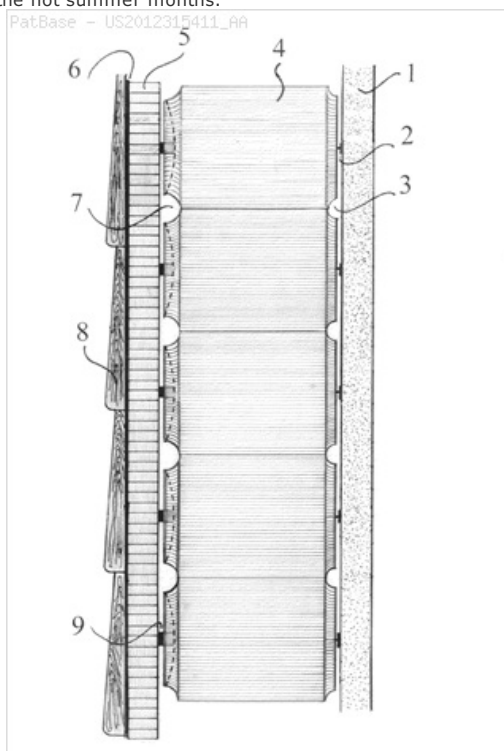
Abstract: This invention concerns an article of manufacture for building material insulation, wherein the article of insulation includes vessels which are evacuated of its air contents. As such, it relates to an apparatus, completely devoid of air and in a complete state of vacuum which totally prevents or drastically retards the transmigration of heat energy loss via conduction and convection from the interior of a building's space to the outside environment during the winter months; and vice versa, thus retarding the gain of environmental heat into said space during the hot summer months.

Classifications:

International (IPC 8-9): B32B1/08 E04B1/74 E04B1/76 E04B1/80 E04B2/00 E04C2/02 E04C2/30 (Advanced/Invention)

CPC: E04B1/7675 E04B1/7612 E04B1/803 E04B1/7625 E04B1/7629 E04C2/02 E04C2/46 B32B1/08 B32B2419/00 B32B2307/304 B32B2419/04 B32B2419/06 B32B2607/00 B32B3/12 B32B3/26 B32B7/12 B32B15/06 B32B15/08 B32B15/20 B32B25/04 B32B25/08 B32B27/06 B32B2255/06 B32B2255/26 B32B2307/558 B32B2307/7265 B32B2581/00 Y10T428/13 E04C2/38 E04C2/422 E04C2002/3488 B32B7/05

US: 428/34.1 52/309.3 52/510



Family:

Publication number	Publication date	Application number	Application date
US2012315411 AA	20121213	US20110067541	20110607
US2016186427 AA	20160630	US20160014268	20160203
US9771714 BB	20170926	US20160014268	20160203
WO13025272 A1	20130221	WO2012US39843	20120529

Priority:

US20100355814P 20100617 US20110067541 20110607 US20160014268 20160203

Probable Assignee: CASTELLE JERRY

Assignee(s): (std): CASTELLE JERRY

Inventor(s): (std): CASTELLE JERRY

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: INTERLOCKING ARCH TILE

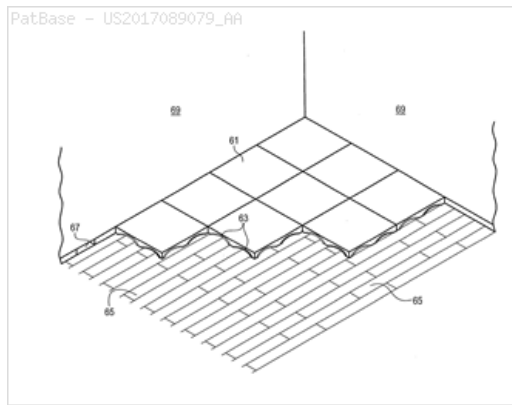
Abstract: Tiles having a matrix of interconnected vaults on its underside surface provides space for flow of heated or conditioned air, passages for electrical service conduits and wiring, or passages for drainage. In particular, each tile may comprise a solid rigid body having a substantially planar upper surface and thickness substantially less than upper surface linear dimensions. The underside surface has a set of concavities forming a matrix of vaults bounded and interconnected by archways. Each archway is characterized by a rise dimension that is less than a span dimension. The matrix of vaults defines a set of pendentives at each vault corner whose load-bearing bases are all substantially coplanar with one another so as to contact a supporting subfloor. Edges of the tile body have corresponding alternating laterally projecting extensions and indentations for forming (with some desired leeway) mortise-and-tenon joints between adjacent tiles.

Classifications:

International (IPC 8-9): E04F15/02 E04F15/024 E04F15/10 (Advanced/Invention)

CPC: E04F15/02411 E04F15/02038 E04F15/105 E04F2201/022

US: 52/588.1

**Family:**

Publication number	Publication date	Application number	Application date
US2017089079 AA	20170330	US20160231976	20160809
US10190322 BB	20190129	US20160231976	20160809

Priority:

US20150284436P 20150929 US20160231976 20160809

Probable Assignee:

HAAS THOMAS C

Assignee(s): (std):

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Inventor(s): (std):

HAAS THOMAS C

Agent(s):

SCHNECK THOMAS

96) Family number: 3548556 (FR2305553A)

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Title: INFLATABLE STRUCTURE WITH MAIN CANVAS FIXED TO GROUND - HAS INFLATABLE TUBULAR CAVITIES ACTING AS SEMI-RIGID CANVAS SUPPORT FRAMEWORK

Abstract: The main canvas (1) is dome-shaped, with its rectangular base perimeter fixed to the ground. The semi-rigid framework holding up the canvas (1) is formed by a series of cavities filled with compressed air. The framework consists of two vertical hoops, and roof purlins in groups of four. Each cavity is tubular and is formed by folding back a strip of canvas onto itself and sealing the joint by a lengthwise soldered line. An inner lengthwise membrane divided the cavities into pairs of compartments. The air cavities of the hoops and purlins are interconnected, as are the air cavities of intermediate framework members.

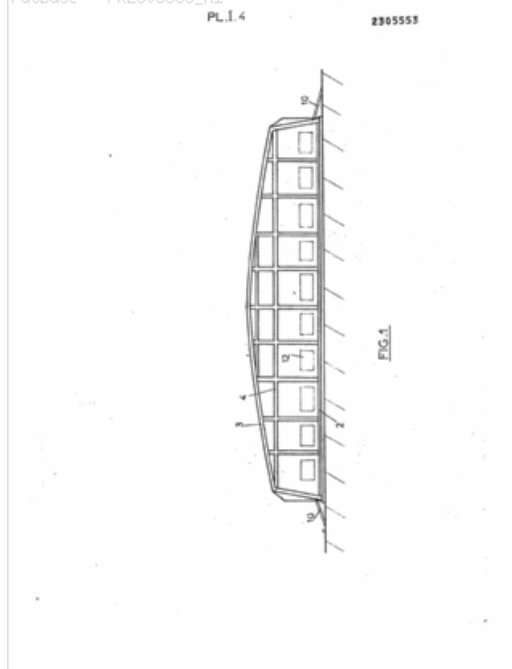
Classifications:

International (IPC 8-9): E04H15/20 (Advanced/Invention); E04H15/20 (Core/Invention)

International (IPC 1-7): E04B1/345

CPC: E04H15/20 E04H2015/201 E04H2015/206

European: E04H15/20 P04H15/20B P04H15/20D

**Family:**

Publication number	Publication date	Application number	Application date
FR2305553 A1	19761022	FR19750010193	19750326

Priority:

FR19750010193 19750326

Probable Assignee:

JACQUET ANTONIN

Assignee(s): (std):

JACQUET ANTONIN

Title: CREMATED REMAINS REMEMBRANCE AND BURIAL SYSTEM

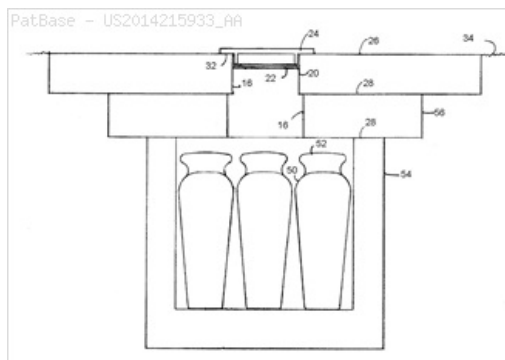
Abstract: A cremated remains remembrance and burial system that includes an urn, an urn lid, an urn enclosure and a headstone. The urn includes an enclosure with an opening, a first sealing mechanism and second sealing mechanism. The urn lid is capable of engaging the first sealing mechanism to substantially seal the enclosure. The urn enclosure has a recess formed therein that is adapted to receive the urn. The urn enclosure is adapted to engage the second sealing mechanism to retain the urn in engagement with the urn enclosure. The headstone has an opening formed therein that is adapted to receive at least a portion of the urn. The headstone is adapted to engage the second sealing mechanism to retain the urn in engagement with the headstone.

Classifications:

International (IPC 8-9): A61G17/08 E04H13/00 (Advanced/Invention)

CPC: E04H13/008 Y10S27/01 A61G17/08 A61G17/007

US: 211/85.27 27/1 27/27 27/35 27/DIG.1 52/103 52/128 52/136 52/137 52/140 D99/1 D99/17 D99/5



Family:

Publication number	Publication date	Application number	Application date
CA2838444 AA	20140707	CA20142838444	20140107
US2014215933 AA	20140807	US20140149133	20140107
US8943762 BB	20150203	US20140149133	20140107
USRE47066 E	20181002	US20170424083	20170203

Priority:

US20130749792P 20130107 US20140149133 20140107 US20170424083 20170203

Probable Assignee: CANNON MARK

Assignee(s): (std): CANNON MARK ; CANNON MARK JERALD ; CARLSON CHARLES ; EYBERG DONALD

Assignee(s): EYBERG DONALD319-201 MAIN STREET SEMINNEAPOLISMN55414US ; CARLSON CHARLES2584 HORSESHOE LANEWOODBURYMN55125US ; CANNON MARK JERALD133 RIVERSIDE STREETMORAMN55051US

Inventor(s): (std): CARLSON CHARLES ; CANNON MARK JERALD ; EYBERG DONALD ; CANNON MARK

Inventor(s): EYBERG DONALD319-201 MAIN STREET SEMINNEAPOLISMN55414US ; CARLSON CHARLES2584 HORSESHOE LANEWOODBURYMN55125US ; CANNON MARK JERALD133 RIVERSIDE STREETMORAMN55051US

Agent(s): MACPHERSON LESLIE AND TYERMAN LLP; DICKE BILLIG AND CZAJA PLLC; BONDI MICHAEL A; MOSS AND BARNETT

Title: METHOD OF MANUFACTURING A COMPOSITE STRUCTURE INCLUDING A TEXTILE FABRIC ASSEMBLY PROCEDE DE FABRICATION D'UNE STRUCTURE COMPOSITE COMPRENANT UN ENSEMBLE DE TISSU

Abstract: The invention relates to a textile fabric assembly (1) comprising at least two textile layers (2). The textile layers (2) are joined at a plurality of points (3) and/or along a plurality of lines (6) so that they form inner and outer walls, respectively. The invention also relates to a method of manufacturing a composite structure (10). The method may comprise providing a form (8) that has a shape corresponding to a desired shape of an internal cavity in the composite structure (10) to be manufactured. The textile fabric assembly (1) is arranged around the form (8), and a curable material (9) is filled into the at least one inner space (4) between the textile layers (2). The form (8) may be inflatable. Alternatively, the method may comprise arranging the textile fabric assembly (1) around an initial structure and/or mechanically fastened to a surface of an initial structure to be reinforced and then filling it with a curable material (9).

Classifications:

International (IPC 8-9): B32B13/02 B32B13/14 B32B27/12

B32B3/06 B32B3/28 B32B5/02 B32B5/20 B32B5/24 B32B5/26

B32B7/04 B32B7/08 E04B1/16 E04C5/07 (Advanced/Invention)

CPC: B32B5/26 B32B3/06 B32B3/28 B32B5/024 B32B5/20

B32B5/245 B32B7/08 B32B13/02 B32B13/14 B32B27/12

B32B2307/3065 B32B2307/54 B32B2307/714 B32B2307/7265

B32B2419/00 B32B2597/00 E04C5/07 B32B7/05

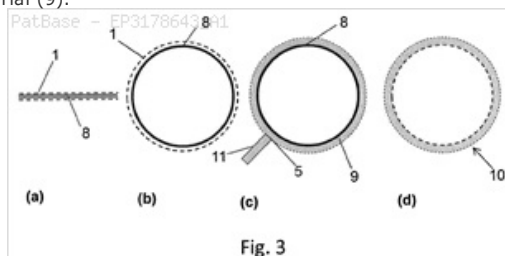


Fig. 3

Family:

Publication number	Publication date	Application number	Application date
EP3178643 A1	20170614	EP20150199307	20151210

Priority:

EP20150199307 20151210

Probable Assignee: UNIV DANMARKS TEKNISKE

Assignee(s): (std): DANMARKS TEKNISKE UNIV ; UNIV DANMARKS TEKNISKE

Assignee(s): DANMARKS TEKNISKE UNIVERSITET

Inventor(s): (std): FISCHER GREGOR

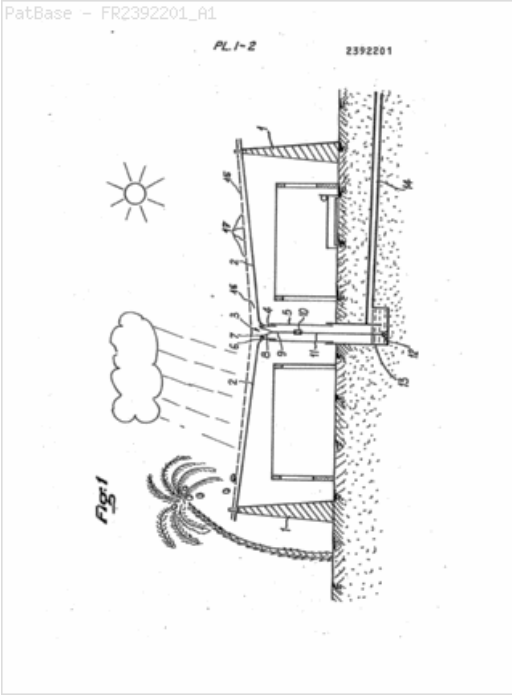
Agent(s): PLOUGMANN VINGTOFT A S
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO
PL PT RO RS SE SI SK SM TR

99) Family number: 3684569 (FR2392201A) © PatBase

Title: PERMANENT OR TEMPORARY FRAMED SHELTER - HAS SHEET OF WATERPROOF ROOFING WITH CENTRAL RAIN-WATER DRAINAGE HOLE SUPPLYING RESERVOIR

Abstract: The shelter for permanent or temporary use has vertical supports (1) supporting at least one layer of roofing (2) which is waterproof, and can be of synthetic material. In the centre of th sheet is a hole (3), the edges (4) of which are fixed to a watertight pipe (5) leading to a rain -water receptacle. A tie-piece is anchored to the ground and pulls the sheet downwards. The supports are built to be permanent, in the form of walls. A reinforcement such as a cable is fixed to the shelter. The shelter may consists of two superimposed sheets, the upper one of which is connected to a hole either directly or through the lower sheet.

Classifications:
International (ipc 8-9): E04B7/14 E04H1/02 (Advanced/Invention);
E04B7/14 E04H1/02 (Core/Invention)
International (ipc 1-7): E04D5/00 E04H1/02
CPC: E04B7/14 E04B2001/0092 E04H1/02
European: E04B7/14 E04H1/02 P04B1/00S6H



Family:

Publication number	Publication date	Application number	Application date
FR2392201 A1	19781222	FR19770016257	19770527

Priority:
FR19770016257 19770527

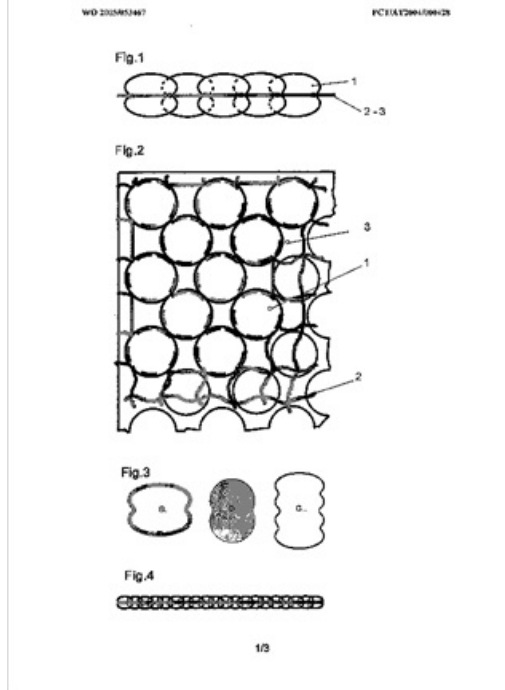
Probable Assignee: MAROT MICHEL
Assignee(s): (std) MAROT MICHEL

100) Family number: 31729595 (WO05053467A2) © PatBase

Title: SUPPORTING BODY MATS FOR UPHOLSTERING, MATTRESSES, PROTECTION NETS, AIRBAGS, PROTECTION WALLS, BUILDING ELEMENTS AND FLOATING BODIES

Abstract: The invention relates to supporting body mats consisting of nets or grids provided with supporting bodies for different applications. Elastic hollow or foamed supporting bodies are fixed by shaping to net meshes or to grid holes (spring press fit) or solid supporting bodies are moulded, shaped or foamed directly on the nets or grids. For shaping furniture and mattresses, different elastic, solid and foamed supporting bodies are combined with elastic-structure mats. The mats provided with pneumatic supporting bodies are applied to solid bodies in the form of airbag coating or are disposed in the form of protective nets by means of ropes. The mats with longitudinal cylindrical supporting bodies are combined in such a way that fire protective walls are formed. The floating mats in the form of floating bodies are used for covering and planting stagnant waters. The supporting body mats combined with sealing films can be mounted in the form of protective walls and watergates for submerged locks and along riversides for flood protection. The flexible grids provided with pressure-resistant conical supporting bodies can be assembled in corresponding radius in such a way that curved elements suitable for vaults, tunnels and domes are formed.

Classifications:
International (ipc 8-9): A47C15/00 A47C27/00 A47C27/14
A47C27/18 E02B3/10 E04C3/00 E04C3/38
E04G21/18 (Advanced/Invention);
A47C15/00 A47C27/00 A47C27/14 E02B3/10 E04C3/00 E04C3/38
E04G21/18 (Core/Invention)
International (ipc 1-7): A01G31/04 A47C27/00 A47C27/14
A47C31/12 E02B3/12 E04C3/38 E04G1/26 E04G21/32
CPC: E04G21/1866 A47C27/20 A47C15/006 A47C27/081 A47C27/16
A47C27/18 A47C31/001 E02B3/10 E04C3/005 E04C3/38
E04G21/1841
European: A47C15/00P2 A47C27/00A3 A47C27/08A A47C27/16
A47C27/18 A47C27/20 A47C31/00B E02B3/10 E04C3/00B E04C3/38
E04G21/18C

**Family:**

Publication number	Publication date	Application number	Application date
AT19412003 A	20050215	AT20030001941	20031204
AT412943 B	20050926	AT20030001941	20031204
WO05053467 A2	20050616	WO2004AT00428	20041203
WO05053467 A3	20060504	WO2004AT00428	20041203

Priority:

AT20030001941 20031204

Probable Assignee: HOCHREITER RUDOLF**Assignee(s):** (std): HOCHREITER RUDOLF**Inventor(s):** (std): HOCHREITER RUDOLF

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

101) Family number: 40601612 (LU55170A)

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Abstract: Source: LU55170A [FR] [Source: Claim 1] Des organes d'entretoisement correspondants en echarpe sont adaptes aux joints 50, 52 et 53, apres quoi les organes principaux 36 et 37, ainsi que des organes correspondants pour les autres panneaux peuvent etre adaptes pour achever la structure. REVENDICATIONS 1. Procédé en vue d'assembler un joint entre les extremités d'un certain nombre d'organes tubulaires en acier s'étendant pratiquement dans un plan commun et faisant partie d'une charpente spatiale, le joint étant réalisé au moyen de deux éléments de serrage entre lesquels sont accrochées les extremités des organes tubulaires, ce procédé étant caractérisé en ce que les extremités d'un ou de plusieurs organes tubulaires sont assemblées provisoirement et indépendamment à un des éléments de serrage, chacune au moyen d'un dispositif individuel ne gênant pas le montage ultérieur du second élément de serrage, les extremités des organes tubulaires restants étant amenées dans leurs positions correctes par rapport au premier élément de serrage, tandis que le second élément de serrage est finalement fixé au premier en vue d'accrocher les extremités des organes tubulaires et ainsi compléter le joint. 2. Procédé suivant la revendication 1, caractérisé en ce que chaque dispositif individuel exerce un effet d'accrochage de façon à retenir l'élément de serrage entre l'extrémité de l'organe tubulaire et le dispositif. 3. Procédé suivant la revendication 2, caractérisé en ce que chaque dispositif individuel a la forme d'un gabarit fixé à l'organe tubulaire respectif et en ce qu'il comporte une partie en saillie s'étendant au-dessus de l'élément de serrage de façon à exercer l'effet d'accrochage. 4. Procédé suivant l'une ou l'autre des revendications précédentes, caractérisé en ce que les éléments de serrage sont façonnés pour définir des douilles destinées à recevoir les extremités des organes tubulaires. 5. Procédé suivant la revendication 4, caractérisé en ce que les éléments de serrage sont construits suivant la demande de brevet Luxembourgeois 510 h bctifj. 6. Procédé d'assemblage d'une charpente spatiale, caractérisé en ce que les joints prévus entre des organes tubulaires s'étendant pratiquement dans un plan commun sont réalisés au moyen de deux éléments de serrage entre lesquels viennent s'accrocher les extremités des organes tubulaires, et en ce que des joints suffisants sont complétés pour constituer une partie de la charpente devant être ultérieurement assemblée à une ou plusieurs autres parties identiques, les joints restants, au moyen desquels est effectuée cet assemblage ultérieur, étant assemblés par un procédé suivant l'une ou l'autre des revendications précédentes.

Machine translation: [Source: Claim 1] Organs of corresponding bracing in a sling are adapted to the joints 50, 52 and 53, after which the organ-main nes 36 and 37, as well as organs corresponding for the other panels can be adapted to complete the structure. CLAIMS 1. Process to assemble a joint between the ends of a certain number of tubular steel bodies if extending practically in a common plan and ISP-part of a space frame, the joint being made using two clamping elements between which are hung the ends of the tubular bodies, this process being characterized in that the ends of one or several tubular bodies are assembled provisionally and independently has one of the clamping elements, by an individual feature of each no annoying not editing later in the second element of tightening, end-of the remaining tubular bodies being brought into their correct with respect to the first element of clamping positions, while the second clamping element is finally also sets the first to hang the ends of tubular bodies and thus complete the joint. 2. process according to claim 1, it is that each individual device sets the pace and snap to hold clamping between the end of the tubular body and the device. 3. process according to claim 2, characterized in that each individual has the form of a gabarit fixed a tubular body respective and what he - com is a protruding part if extending above the element clamping so as to have the effect of hanging, 4

"process according to one or other of the claim-previous, characterized in that the clamping elements are shaped to lampholders intended define has receive the ends of the tubular bodies 5. Process according to claim 4, characterized in that the clamping elements are built according to the request of patent: bcitfj \$10 Luxembourg, 6. Assembling process of a space frame, characterized in that the seals provided between tubular bodies extending virtually in a common plan are made using two clamping elements between which come to hang on the ends of the tubular bodies, and in that of the attached sufficient are complete for idiots - destroy a part of the frame before being later Assembly has one or more identical parts the remaining seals, by means of which is makes this assem-molds later, being put together by a method according to either of the previous claims.

Classifications:

International (IPC 8-9): E04B1/19 (Advanced/Invention);

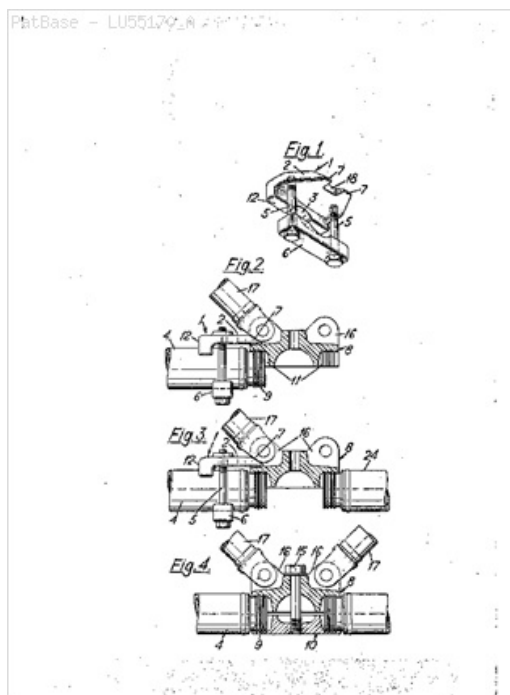
E04B1/19 (Core/Invention)

CPC: E04B1/19 E04B2001/1927 E04B2001/1957 E04B2001/1966

E04B2001/1984

European: E04B1/19 P04B1/19C1 P04B1/19D P04B1/19D3

P04B1/19G2



Family:

Publication number	Publication date	Application number	Application date
LU55170 A	19680306	LU19670055170	19671228

Priority:

LU19670055170 19671228

102) Family number: 29959615 (US2002059777A)

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Title: Method of constructing curved structures as part of a habitable building

Abstract: The invention uses flat, transparent or opaque plastic sheets to build curved structures that are used in constructing habitable buildings. The curved structure is divided into sections using a Computer Assisted Drafting program. The plastic sheets are cut into sides and top and bottom panels by a Computer Assisted Manufacturing program. The sides are joined to form a frame. The sides have curved upper and lower edges that match the curvature of the structure. The top and bottom panels are placed on the frame formed from the sides and bent to match the curvature of the sides. The panels are joined to the sides. The sections are joined together to form the curved surface. The curvature can be either outwardly curved or inwardly curved. The curvature can change in different portions of the structure.

Classifications:

International (IPC 8-9): B21D47/00 E04B1/32

E04B7/10 (Advanced/Invention);

B21D47/00 (Core/Invention)

International (IPC 1-7): B21D47/00 E04G21/00 E04G21/14

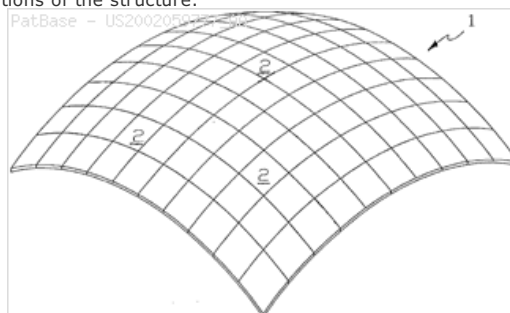
G06F17/50

CPC: E04B1/32 E04B7/102 E04B2001/3276 E04B2001/3288

European: E04B1/32 E04B7/10B P04B1/32P1 P04B1/32P2

US: 52/200 52/200S 52/745.07 52/745.070P 52/81.4 52/81.400S

52/814 703/1



Family:

Publication number	Publication date	Application number	Application date
AU2001241365 AA	20020611	AU20010241365	20001128
US2002059777 AA	20020523	US20010046494	20011029
US6308490 BA	20011030	US20000563142	20000502
US6912488 BA	20050628	US20000563241	20000501
WO0243894 A1	20020606	WO2000US42302	20001128

Priority:

US19980100856P 19980918

US20000563142 20000502

US19990398387 19990917

WO2000US42302 20001128

US20000563241 20000501

US20010046494 20011029

Probable Assignee: SAEBI NASSER

Assignee(s): (std): SAEBI NASSER

Assignee(s): NASSER SAEBI
Inventor(s): (std): SAEBI NASSER
Inventor(s): NASSER SAEBI
Agent(s): DAVIS JR ALBERT W; ALBERT W
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

103) Family number: 2957621 (EP0244349A2)

© PatBase

Title: Device for simultaneously holding in place and sealing fixed glazings at outer building surfaces.

Abstract: The device consists of a profiled base strip (1), a spacer (2) and a profiled cover strip (3), which can be set by means of tothing (24, 33) at a suitable distance from the profiled base strip (1) and thus adapted to the thicknesses of the glass panes or infilling panels (4) to be clasped. The profiled base strip (1) has a supporting and sealing region (12) on each side. This region comprises sealing lips (14) and a projection (15) with a convex supporting surface (16). The sealing lips (14) are sufficiently flexible to permit tilting of a pane (4); thanks to the convex supporting surface (16), however, the latter always rests on the projection (15). The flexibility is facilitated further by a constriction (17). In this way, it is readily possible to construct and seal perfectly even curved building parts, such as, for example, barrel vaults or domes. The profiled base strip (1) and the profiled cover strip (3) always remain the same. The adaptation to panes (4) of different thickness is achieved, in addition to adjusting the tothing (24, 33), simply by means of spacers (2) of different height. This simplifies storage considerably.

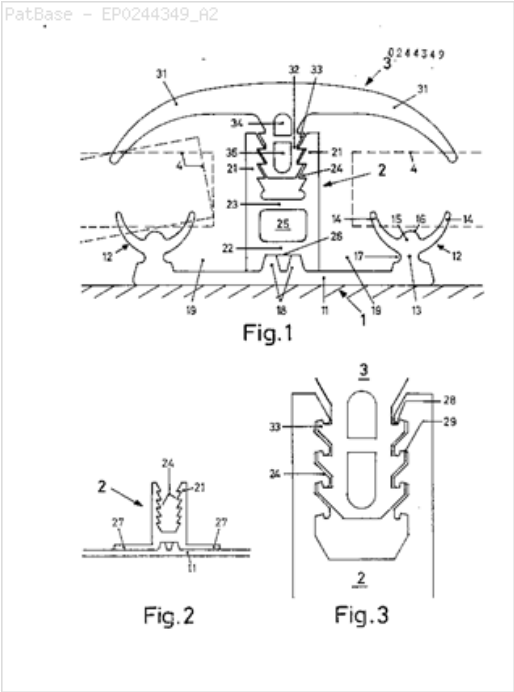
Classifications:

International (ipc 8-9): E04B2/92 E04D3/06 (Advanced/Invention); E04D3/08 (Advanced/Non-invention)

International (ipc 1-7): E04B2/92 E04D3/06 E04F19/02 E06B3/62

CPC: E04B2/92 E04D3/06 E04D2003/0818 E04D2003/0831 E04D2003/0837 E04D2003/085 E04D2003/0893

European: E04B2/92 E04D3/06 P04D3/08P3 P04D3/08P3A1 P04D3/08P3B P04D3/08R1A P04D3/08V



Family:

Publication number	Publication date	Application number	Application date
AT69478 E	19911115	AT19870810134T	19870309
CH671998 A	19891013	CH19860001699	19860425
DE3774480 D1	19911219	DE19873774480	19870309
EP0244349 A2	19871104	EP19870810134	19870309
EP0244349 A3	19871216	EP19870810134	19870309
EP0244349 B1	19911113	EP19870810134	19870309

Priority:

CH19860001699 19860425 EP19870810134 19870309

Probable Assignee: DAETWYLER AG

Assignee(s): (std): DAETWYLER AG

Assignee(s): DAETWYLER AG SCHWEIZERISCHE KABEL GUMMI UND KUNSTSTOFFWERKE ; DAETWYLER AG SCHWEIZERISCHE KABEL GUMMI UND KUNSTSTOFFWERKE ALTDORF URI CH ; DATWYLER AG SCHWEIZERISCHE KABEL GUMMI UND KUNSTSTOFFWERKE ; DATWYLER SCHWEIZERISCHE KABEL GUMMI U KUNSTSTOFFWERKE AG

Inventor(s): (std): WALKER PETER ; HERWEGH NORBERT

Inventor(s): WALKER PETER CH 6472 ERSTFELD CH ; HERWEGH NORBERT CH 6467 SCHATTDORF CH

Designated states: AT DE FR

104) Family number: 49153624 (EP2345770A1)

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Title: VACUUM INSULATION

Abstract: The evacuated surface construction has gas tight cover surfaces (3), which are geometrically designed in such a manner that it introduces the force in tensioning elements. The load of the air pressure is removed as the thrust load.

Tension fibers (2) are implemented opposite to the loaded cover surface scan area.

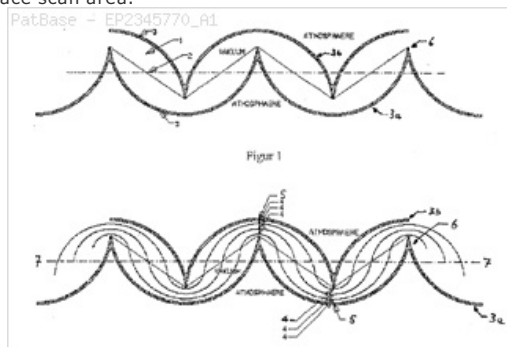
Classifications:

International (IPC 8-9): E04B1/80 E04B1/88 E04B1/90

F16L59/065 (Advanced/Invention)

CPC: Y02A30/242 E04B1/803 E04B1/90 E04B2001/7691 F16L59/065 Y02B80/12

European: E04B1/80B E04B1/90 F16L59/065 P04B1/76R Y02B80/12



Family:

Publication number	Publication date	Application number	Application date
DE102009060713 A1	20110630	DE200910060713	20091229
EP2345770 A1	20110720	EP20100197143	20101228

Priority:

DE200910060713 20091229

Probable Assignee: INGBUERO KONTECH GMBH

Assignee(s): (std): INGBUERO KONTECH GMBH ; WIMMER JOHANN

Assignee(s): INGENIEURBUERO KONTECH GMBH ; WIMMER

Inventor(s): (std): BACKES BRUNO ; WIMMER JOHANN

Agent(s): VOSSIUS AND PARTNER

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

105) Family number: 41618626 (US2008066393A)

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Title: INSTANT, PRE-TENSIONED, TOOL FREE, POLYHEDRAL, ENCLOSURE CONSTRUCTION SYSTEM

Abstract: A modular construction system consisting of a plurality of multifunction connectors or multifunction hinges joining together a plurality of polyhedral panel components having edge connector engaging means resulting in a spring tensioned, automatic parabolic, self-aligning, perpendicular snap-in, parallel slide out, planar angle tolerant, rotational angle tolerant, toe-in angle tolerant, toe-out angle tolerant, easy-in/hard-out, dual reverse curl linear barb, multi-planar, centerline pivoting, centerline friction, dual edge sealing, pre-stressed assembly creating groups of connected polyhedron modules forming a virtually unlimited variety of domes, arches, spheres, cylinders, cubes, trusses, walls, roofs, hinges, doors, windows, columns, beams, bridges, frames, vaults, fixtures, enclosures, shelters, partitions, toys, covers, sculptures, containers, stairs or other polyhedral structures, by hand, without the use of tools using only seconds of construction time per module. When the first built structure becomes obsolete, the components can be disassembled by hand, without the use of tools, and then reassembled to create other structures at will.

Classifications:

International (IPC 8-9): E04B7/08 (Advanced/Invention);

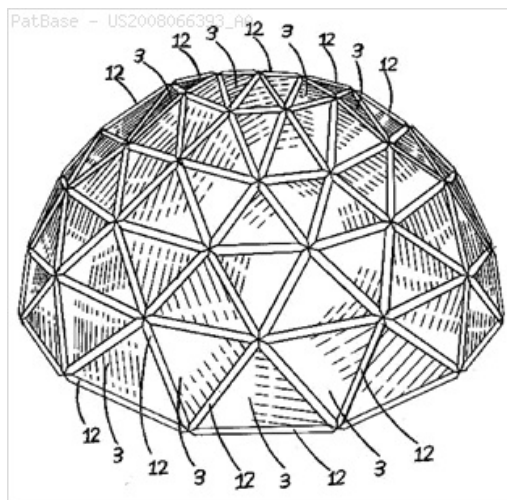
E04B7/08 (Core/Invention)

CPC: A63H33/101 E04B1/3211 E04B1/34315 E04B2001/3276 E04B2001/3294

European: A63H33/10C E04B1/32C E04B1/343C P04B1/32P1

P04B1/32S

US: 52/81.1



Family:

Publication number	Publication date	Application number	Application date
US2008066393 AA	20080320	US20060531878	20060914

Priority:

US20060531878 20060914

Probable Assignee: SORENSEN BRADFORD TYLER

Assignee(s): (std): SORENSEN BRADFORD TYLER

Inventor(s): (std): SORENSEN BRADFORD TYLER

Agent(s): BRADFORD T SORENSEN

Title: MANUAL OR MACHINE FEEDABLE CLIP FOR SECURING REBAR

Abstract: A clipping system includes a clipping device which can be implemented manually or with a machine to secure and lock together crossing and engaging reinforcing rods or bars (1, 2). The clipping device comprises a mid-portion (4), a pair of leg portions (10, 11), a pair of foot portions (12, 13), and a pair of toe portions (16, 17).

Classifications:

International (IPC 8-9): E04C5/16 E04C5/18

E04G21/12 (Advanced/Invention);

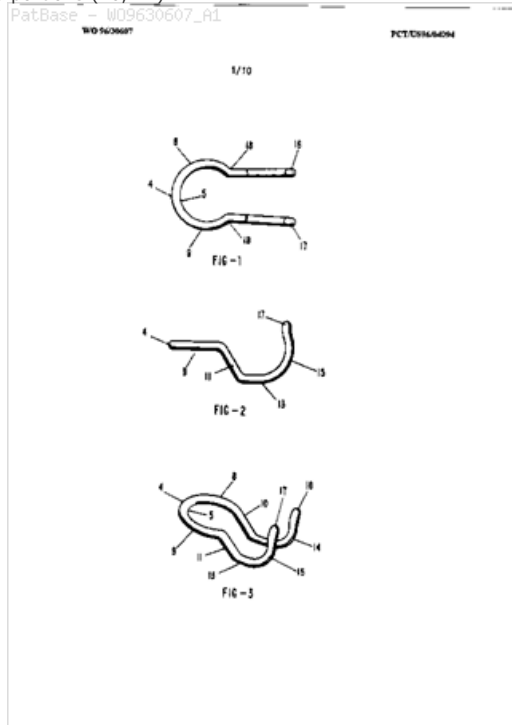
E04C5/18 (Advanced/Non-invention);

E04C5/16 E04C5/18 E04G21/12 (Core/Invention)

International (IPC 1-7): E04C5/16 E04C5/18 E04G21/12

CPC: E04C5/167 E04G21/122

European: E04C5/16B2A E04G21/12C



Family:

Publication number	Publication date	Application number	Application date
AU199654312 A1	19961016	AU19960054312	19960325
JP11502578 T2	19990302	JP19960529581T	19960325
WO9630607 A1	19961003	WO1996US04094	19960325

Priority:

US19950410097 19950324 WO1996US04094 19960325

Probable Assignee: GILES BRIAN C

Assignee(s): (std): BRIAN C GILES ; GILES BRIAN C

Inventor(s): (std): GILES BRIAN C

Inventor(s): BRIAN C GILES

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG US UZ VN

Title: BUILDING STRUCTURE

Abstract: (Claim 1) In a building construction comprising support means extending vertically from a ground line, a roof construction comprising a trussless, cellular layer subtended between said support means, said cellular layer comprising a plurality of elongated, tubular cells having a polygonal horizontal cross section, the longitudinal axis of said cells being mutually parallel and extending vertically relative to and above said ground line from which said roof construction is supported, adjacent cells being integrally connected at complementary surfaces, certain of said cells being vertically staggered with respect to other cells of said layer.

Classifications:

International (IPC 8-9): E04B1/32 E04B1/34

E04B7/10 (Advanced/Invention);

E04B1/00 (Advanced/Non-invention);

E04B1/32 E04B1/34 E04B7/10 (Core/Invention);

E04B1/00 (Core/Non-invention)

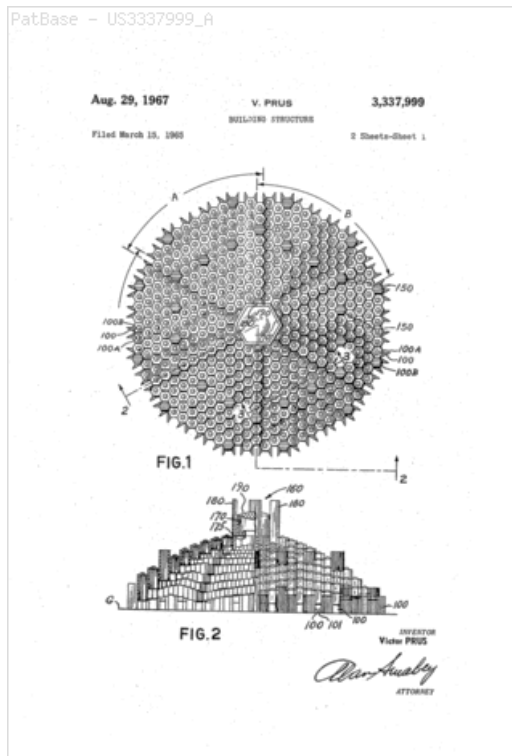
International (IPC 1-7): E04B1/32 E04H1/00

CPC: E04B1/32 E04B1/34 E04B7/10 E04B2001/0084 E04B2001/3276

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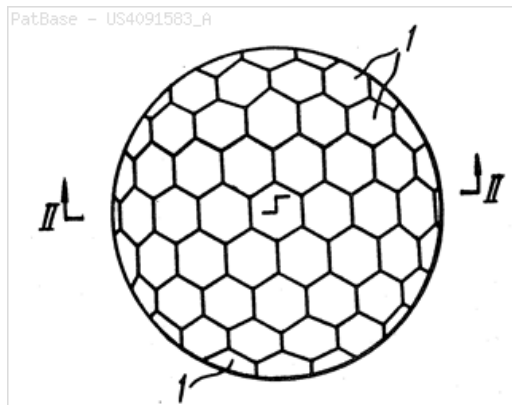
US: 52/174 52/2.26 52/306 52/309.1 52/80.1 D25/13 D25/26

D25/32



Publication number	Publication date	Application number	Application date
US3337999 A	19670829	US19650439770	19650315

Probable Assignee:	BOIS MCCAY AND ASSOCIATES LTD
Assignee(s) (std):	BOIS MCCAY AND ASSOCIATES LTD
Inventor(s) (std):	VICTOR PRUS
Inventor(s):	PRUS VICTOR



Publication number	Publication date	Application number	Application date
BG28531 A1	19800515	BG19740028561	19741226
CS175843 B1	19770531	CS19740008920	19741222
DD115937 Z	19751020	DD19740183414	19741224
DE2461103 A1	19750710	DE19742461103	19741223
DE2461103 B2	19780427	DE19742461103	19741223
DE2461103 C3	19781221	DE19742461103	19741223
FR2256297 A1	19750725	FR19740042871	19741226
FR2256297 B1	19761022	FR19740042871	19741226
JP51079009 A2	19760709	JP19750001114	19741227
JP53040972 B4	19781030	JP19750001114	19741227

SU494498 T	19751205	SU19731980290	19731227
US4091583 A	19780530	US19750634630	19751124

Priority:

SU19731980290 19731227 US19740536447 19741226 JP19750001114 19741227

Probable Assignee: VG ORUDENARENINA PUROEKUTONII

Assignee(s): (std): VG PI TEPLOELEKTROPROEKT ; VG PI TEPLOELEKTROPROJEKT ; PEREYASLAVTSEV NIKOLAI ALEXAND ; SUKHENKO IGOR VLADIMIROVICH ; VASYAGINA NADEZHDA GRIGORIEVNA ; SHOTSKY VIKTOR IVANOVICH ; FUSESOYUZUNII GOSUDARUSUTOBENI ; GENIS SEMEN NAUMOVICH ; INST TEPLOELEKTROPROEKT ; ZHIVOV ADOLF NIKOLAEVICH ; VG ORUDENARENINA PUROEKUTONII

Assignee(s): VSESOJUZNYJ GOSUDARSTVENNYJ PROEKTNYJ INSTITUT TEPLOELEKTROPROEKT MOSKAU ; VSESOJUZNYJ GOSUDARSTVENNYJ PROEKTNYJ INST TEPLOEHLEKTROPROEKT ; VSESOJUSNY GOSUDARSTWENNY PROEKTNY INSTITUT TEPLO ; VSESOJUZNYJ GOSUDARSTVENNYJ PROEKTNYJ INSTITUT ; VSESOJUZNYJ GOSUDARSTVENNYJ PROEKTNYJ INSTITUT TEPLOEHLEKTROPROEKT ; VSESOJUSNY GOSUDARSTWENNY PROEKTNY INSTITUT TEPLOELEKTROPROJEKT ; INSTITUT TEPLOELEKTROPROEKT ; FUSESOYUZUNII GOSUDARUSUTOBENII ORUDENARENINA PURO ; FUSESOYUZUNII GOSUDARUSUTOBENII ORUDENARENINA PUROEKUTONII INST TEPUROEREKUTOROPUROKUTO ; INSTITUT TEPLOELEKTROPROEKT SU ; PEREYASLAVTSEV NIKOLAI ALEXANDROVICH ; VSESOJUZNYJ GOSUDARSTVENNYJ PROEKTNYJ INSTITUT TEP

Inventor(s): (std): GENIS ; GENIS SEMEN N ; GENIS SEMEN NAUMOVICH ; IGOORU URADEIMIROBICHI SUKENKO ; PEREJASLAVTSEV NIKOLAJ A ; PEREYASLAVTSEV NIKOLAI ALEXAND ; PIRIJASLAVCEV ; SCHIVOV ADOLF N ; SCHOTSKIJ VIKTOR I ; SEMEN NAUMOBICHI GENISU ; SHOCKIJJ ; SHOTSKY VIKTOR IVANOVICH ; SUCHENKO IGOR V ; SUKHENKO ; ADORUFU NIKORAEBICHI JIBOFU ; BIKUTORU IBANOBICHI SHOTOSUKII ; SUKHENKO IGOR VLADIMIROVICH ; VASJAGINA GEB ROMASCHKO NADESC ; VASYAGINA ; VASYAGINA NADEZHDA GRIGORIEVNA ; ZHIVOV ADOLF NIKOLAEVICH ; WASJAGINA GEB ROMASCHKO NADESC ; SUCHENKO IGOR W ; SCHOTSKIJ WIKTOR I ; SCHIWOW ADOLF N ; PEREJA SLAWZEW NIKOLAJ A ; ZHIVOV ; NIKORAI AREKUSANDOROBICHI PERE ; NADEZUDA GURIGORIEUNA BASUYAGI

Inventor(s): ZHIVOV ADOLF N ; A PEREJA SLAWZEW NIKOLAJ ; PEREYASLAVTSEV NIKOLAI ALEXANDROVICH ; W SUCHENKO IGOR ; VASYAGINA NADEZHDA G ; VASJAGINA GEB ROMASCHKO NADESCHDA G ; G WASJAGINA GEB ROMASCHKO NADESCHDA ; SUKHENKO IGOR V ; SHOCKIJJ VIKTOR I ; PIRIJASLAVCEV NIKOLAJ A ; N GENIS SEMEN ; N SCHIWOW ADOLF ; NADEZUDA GURIGORIEUNA BASUYAGINA ; NIKORAI AREKUSANDOROBICHI PEREYAAASEAUTSUEFU ; I SCHOTSKIJ WIKTOR

109) Family number: 42501657 (WO08134824A1)

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Title: BUILDING MODULE, CONNECTION MEANS AND METHOD FOR FORMING SPATIAL STRUCTURES

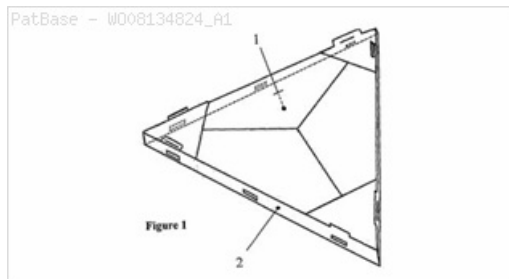
Abstract: A building module made from folded semi-rigid flat sheet-like material, such as cardboard, and having a flat polygonal base panel (1) having at least three sides, one or more sides provided with a side panel, or sidewall (2), said sidewalls (2) being folded and held at a desired angle to the base panel (1) to define an open or closed shallow box-like building module, said module being adapted to be used with similar modules secured to each other by connecting fastening means formed from similar sheet-like material with the sidewalls engaged to form a spatial structure or part of a structure, the ends of the sidewalls (2) being angularly formed such that when adjacent sidewall panels are folded together the sidewalls at the base panel of the module are sloped inwardly, or outwardly to enable a plurality of similar modules to form the desired form of spatial structure.

Classifications:

International (IPC 8-9): E04B1/32 (Advanced/Invention); E04B1/32 (Core/Invention)

CPC: E04B1/3205 E04B1/3211 E04B2001/3276 E04C2/08 E04C2/20

European: E04B1/32B E04B1/32C E04C2/08 E04C2/20 P04B1/32P1



Family:

Publication number	Publication date	Application number	Application date
AU2008247332 AA	20081113	AU20080247332	20080508
WO08134824 A1	20081113	WO2008AU00641	20080508

Priority:

AU20070902449 20070508 WO2008AU00641 20080508

Probable Assignee: ROBERT OATES OATES

Assignee(s): (std): OATES ROBERT MICHAEL JOHN OATES ; ROBERT OATES OATES

Assignee(s): OATES OATES ROBERT MICHAEL JOHN

Inventor(s): (std): OATES ROBERT MICHAEL JOHN OATES

Inventor(s): ROBERT MICHAEL JOHN OATES OATES

Agent(s): OATES ROBERT; HIND RAYMOND ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

110) Family number: 9365671 (EP0384096A1)

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Title: Modular bearing structure, triangular in shape, for the construction of geodetic vaults.

Abstract: A modular supporting structure consisting of a frame having the shape of an isosceles triangle, formed by three

tubular bars (1,2) connected by a joint element (3) at the top vertex and by two joint elements (4) at the two base vertices, the length of the base joint elements (4) being exactly half of the length of the top joint element (3), so that at each node of the trelliswork composed of several modular supporting structures, two adjacent base joint elements (4) being part of two separate to adjacent modules, are perfectly positioned over a top joint element (3) being part of a third module under the two above adjacent modules.

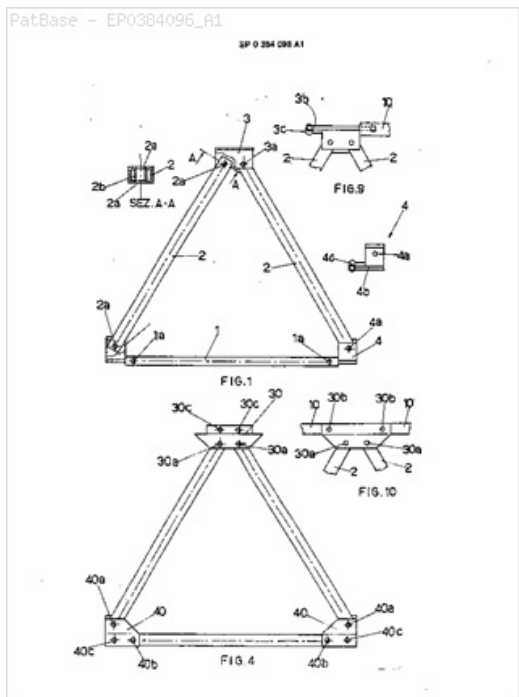
Classifications:

International (IPC 8-9): E04B1/32 E04B7/10 (Advanced/Invention); E04B1/32 E04B7/10 (Core/Invention)

International (IPC 1-7): E04B1/32 E04B7/10

CPC: E04B1/3211 E04B7/105 E04B2001/3241 E04B2001/3276 E04B2001/3288 E04B2001/3294

European: E04B1/32C E04B7/10C P04B1/32M1 P04B1/32P1 P04B1/32P2 P04B1/32S



Family:

Publication number	Publication date	Application number	Application date
AT95868 E	19931015	AT19890830068T	19890221
DE68909921 D1	19931118	DE19896009921	19890221
EP0384096 A1	19900829	EP19890830068	19890221
EP0384096 B1	19931013	EP19890830068	19890221

Priority:

EP19890830068 19890221

Probable Assignee:

SOLE PIETRO

Assignee(s): (std):

SOLE PIETRO

Assignee(s):

SOLE PIETRO MACERATA IT

Inventor(s): (std):

SOLE PIETRO

Inventor(s):

SOLE PIETRO MACERATA IT

Designated states:

AT BE CH DE ES FR GB GR LI LU NL SE

111) Family number: 18279674 (GB183546A)

© PatBase

Title: Improvements in and relating to reinforced blockwork floors, walls, roofs, vaults, domes and the like

Abstract: Flooring and roofing blocks. -Interlocking blocks consist of a voussoir portion A ond an abutment portion B, and the side faces D of both portions are inclined inwards towards the centre of the block and are equal in area so that the voussoir A may fit between the abutments B of the adjacent blocks, as shown in Fig. 7. For vaults and domes, certain of the blocks, such as A <1> , Fig. 8, may have the sides perpendicular to the base. A row of deeper blocks F may form a beam.

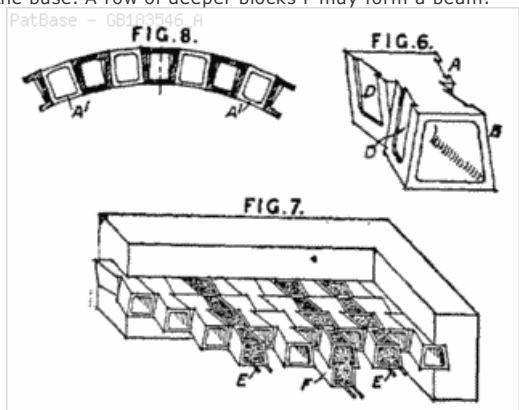
Classifications:

International (IPC 8-9): E04B5/44 E04C3/22 (Advanced/Invention); E04B5/44 E04C3/20 (Core/Invention)

International (IPC 1-7): E04C1/26

CPC: E04B5/44 E04C3/22

European: E04B5/44 E04C3/22



Family:

Publication number	Publication date	Application number	Application date
GB183546 A	19220721	GB19210011573	19210421

Priority:

Probable Assignee: GEORGE ESLEMONT GORDON LEITH
Assignee(s): (std): GEORGE ESLEMONT GORDON LEITH

112) Family number: 9374678 (SU1370206A)

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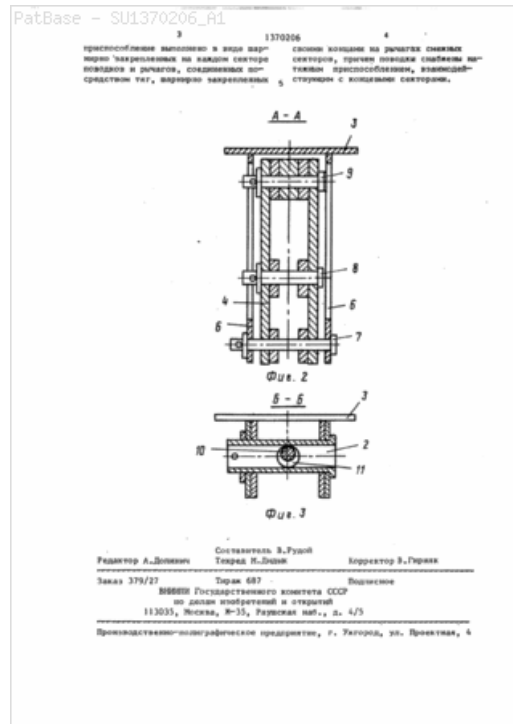
Title: FORMWORK FOR LINING VAULTS

Abstract: Source: SU1370206A **Machine translation:** Invention relates to the construction and can be used to heat the liner domes and chemical units. The purpose of the invention - simplifying the assembly and operation, as well as providing opportunities vaulting different curvature. For this purpose, the supporting device consists of a casing hinge interconnected sectors 1, 12 and 13, which, if necessary, changing the radius, the deck 3 is moved using a system of levers 4, 5 and the rods 10 leashes. 3 yл. And next S / Fig. f

Classifications:

International (IPC 8-9): E04G7/06 (Advanced/Invention);
 E04G7/00 (Core/Invention)

International (IPC 1-7): E04G7/06

**Family:**

Publication number	Publication date	Application number	Application date
SU1370206 A1	19880130	SU19864132718	19860804

Priority:

SU19864132718 19860804

Probable Assignee: SP K B PODZEMNOMU SAMOKHODNOMU**Assignee(s):** (std): SP K B PODZEMNOMU SAMOKHODNOMU ; VOS KAZAKHSTANSKOE REMONTNO ST

Assignee(s): VOSTOCHNO KAZAKHSTANSKOE REMONTNO STROITELNOE SPET ; VOSTOCHNO KAZAKHSTANSKOE REMONTNO STROITELNOE SPETSIALIZIROVANNOE U TRESTA KAZTSVETMETREMONT ; SP K BYURO PO PODZEMNOMU SAMOKHODNOMU GORNOMU OBORU ; SP K BYURO PO PODZEMNOMU SAMOKHODNOMU GORNOMU OBORUDOVANIYU

Inventor(s): (std): DEJNEKO PAVEL F ; KISELEV VLADIMIR A ; KURILENKO STANISLAV A ; ZAKLEPKIN VIKTOR I

Inventor(s): ZAKLEPKIN VIKTOR I SU ; KURILENKO STANISLAV A SU ; KISELEV VLADIMIR A SU ; DEJNEKO PAVEL F SU

113) Family number: 316688 (US3507526A)

© PatBase

Title: TUBULAR STRUCTURES**Abstract:** ABSTRACT OF THE DISCLOSURE

A joint between tubular members lying substantially in a common plane in a tubular steel space structure is made by means of a pair of clamping elements which are held together by a bolt or bolts and between them define sockets formed with alternating transverse recesses and projections for the reception of the complementarily shaped ends of the tubular members.

Classifications:

International (IPC 8-9): E04B1/19 E04B1/58 F16B2/06

F16B7/04 (Advanced/Invention);

E04B1/24 (Advanced/Non-invention);

E04B1/19 E04B1/58 (Core/Invention);

E04B1/24 (Core/Non-invention)

International (IPC 1-7): E04B1/19 E04B1/24 E04B1/58 E04G17/04

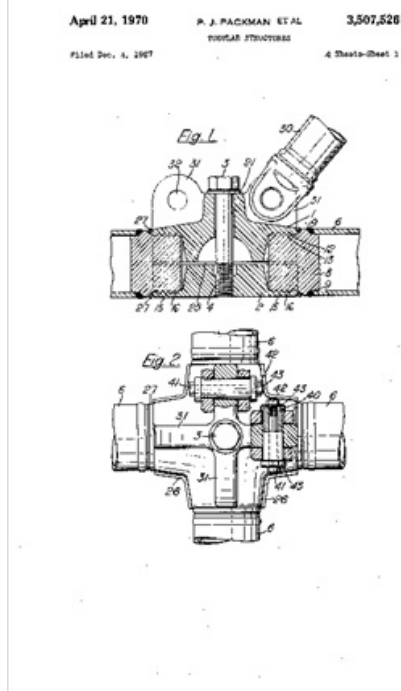
F16B21/06 F16B7/00 F16B7/04 F16M11/16

CPC: Y10T403/344 Y10T403/345 E04B1/19 E04B1/1903 E04B1/1909

E04B2001/1927 E04B2001/1963 E04B2001/1966 E04B2001/1984

E04B2001/2451

European: E04B1/19 P04B1/19B P04B1/19B2 P04B1/19C1



Family:

Publication number	Publication date	Application number	Application date
AU3054767 A1	19690605	AU19670030547	19671130
BE707738 A	19680610		19671208
DE1684486 B1	19700219	DE19671684486	19671222
DE1708005 A1	19691106	DE19671708005	19671202
FR1547926 A	19681129	FR19670131484	19671208
GB1206399 A	19700923	GB19660055326	19661209
IL29037 A1	19730629	IL19670029037	19671129
LU55045 A	19680227		19671207
NL6716751 A	19680610	NL19670016751	19671208
SE327066 B	19700810	SE19670016944	19671211
SU390729 D	19730711	SU19671201420	19671208
US3507526 A	19700421	US19670687825	19671204

Priority:

GB19660055326 19661209 FR19670131484 19671208 DE1967ST27699 19671222

Probable Assignee: STEWARTS AND LLOYDS LTD

Assignee(s): (std): BRITISH STEEL CORP ; STEWARDS AND LLOYD LTD ; STEWARTS AND LLOYDS LTD

Assignee(s): STEWARTS AND LLOYDS LIMITED ; SPACE DECKS CHARD SOMERSET ENGLAND LTD ; SPACE DECKS LTD

Inventor(s): (std): JAMES PACKMAN PERCIVAL ; PACKMAN P ; PACKMAN PERCIVAL JAMES ; BERESFORD WALKER HUBERT ; WALKER H ; WALKER HUBERT BERESFORD

Inventor(s): PERCIVAL JAMES PACHMAN AND HUBERT BERESFORD WALKER ; HUBERT BERESFORD WALKER ; PERCIVAL JAMES PACKMAN

Agent(s): EITAN PEARL LATZER AND COHEN ZEDEK

114) Family number: 33277691 (US2009145079A)

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Title: INTEGRAL, INDUSTRIALISED MODULAR DWELLING SYSTEM

Abstract: The invention relates to an integral, industrialized, modular dwelling system which is based on modular, multi-functional, three-dimensional modules that are made from reinforced concrete. The modules, roofing and components are produced in a semi-automated covered plant in which the modules are first cast and set and subsequently provided with integrated finishes, installations, accessories, partitions and details. The invention also relates to a method for constructing the modules, a retractable flexible mold for casting said modules and a method for the on-site building of dwellings using the inventive three-dimensional modules.

Classifications:

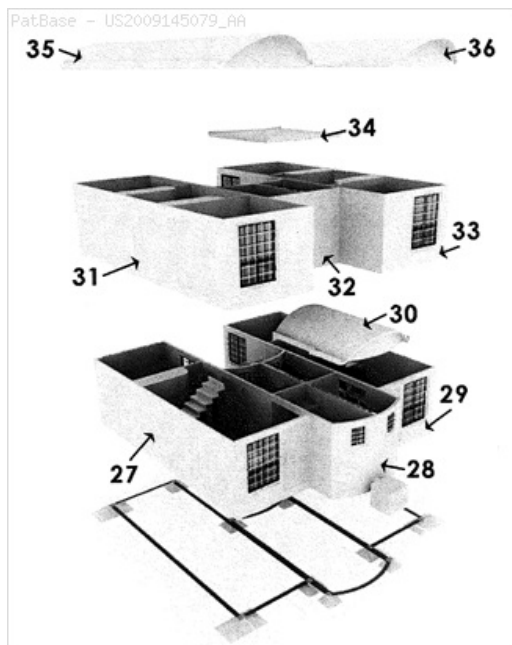
International (IPC 8-9): B28B15/00 B28B7/22 E04B1/35 E04B2/00 E04G11/02 E04G21/14 E04H1/00 E04H5/02 (Advanced/Invention); B28B15/00 B28B7/22 E04B1/35 E04G11/00 E04G21/14 E04H1/00 (Core/Invention); B28B E04G (Subclass/Invention)

International (IPC 1-7): B28B7/22 E04B2/00 E04G11/02

CPC: B28B7/22 B28B15/00 E04B1/34823 E04B2001/34892 E04H1/005 E04H1/02

European: B28B15/00 B28B7/22 E04B1/348C2 E04H1/00B E04H1/02 P04B1/348S

US: 249/13 249/13S 52/64 52/745.02 52/745.02S 52/745.19 52/745.19P 52/79.1 52/79.12 52/79.5



Family:

Publication number	Publication date	Application number	Application date
AP200804527 A0	20080831	AP20080004527	20061129
AP200804527 A0	20091230	AP20080004527	20061129
BRPI0619997 A2	20111025	BR2006PI19997	20061129
BRPI0619997 B1	20180102	BR2006PI19997	20061129
CN101375010 A	20090225	CN200680052919	20061129
CN101375010 B	20130327	CN200680052919	20061129
CR10077 A	20081201	CR20080010077	20080616
DE112006003452 T5	20081127	DE200611003452T	20061129
ECSP088534 A	20080730	EC2008SP08534	20080612
IN02362KN2008 A	20090123	IN2008KN02362	20080612
IN298097 B	20180629	IN2008KN02362	20080612
MXPA05013858 A1	20060613	MX2005PA13858	20051216
TR200804340 T2	20081121	TR20080004340T	20061129
US2009145079 AA	20090611	US20060097701	20061129
US8418411 BB	20130416	US20060097701	20061129
WO07069877 A1	20070621	WO2006MX00136	20061129
ZA200805647 A	20100127	ZA20080005647	20061129

Priority:

MX20050013858 20051216 MX2005PA03858 20051216 MX2005PA13858 20051216
WO2006MX00136 20061129

Probable Assignee: CORPORACION GEO S A DE C V

Assignee(s): (std): CARLOS GARCIA VELEZ Y CORTAZAR ; CARLOS V LEZ Y CORTAZAR GARC A ; CORPORACION GEO S A DE C V ; GARCIA VELEZ Y CORTAZAR CARLOS

Assignee(s): CORPORACION GEO DE CV SA

Inventor(s): (std): GARCIA CARLOS ; CORTAZAR VELEZ Y ; CORTAZAR CARLOS GARCIA VELEZ Y ; CARLOS GARCIA VELEZ Y CORTAZAR ; GARCIA VELEZ Y CORTAZAR CARLOS ; CARLOS V LEZ Y CORTAZAR GARC A

Inventor(s): GARCIA VELEZ Y CORTAZAR ; VELEZ Y CORTAZAR ; CARLOS GARCIA

Agent(s): SUGHRUE MION PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

115) Family number: 28287694 (US2002189509A)

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Title: Supporting-arch construction and process for producing a supporting arch

Abstract: The invention relates to a supporting-arch construction, the supporting-arch construction having two abutment blocks, in each case one impost (3) butting against each abutment block, and supporting-arch blocks which are arranged between the imposts (3) and are of the same construction, and to a process for producing such a supporting arch.

Classifications:

International (IPC 8-9): E04B1/32 E04C3/02 E04C3/38 F23M5/06

F27B7/28 F27D1/02 F27D1/04 (Advanced/Invention);

E04B1/32 E04C3/02 E04C3/38 F23M5/00 F27B7/20

F27D1/02 (Core/Invention)

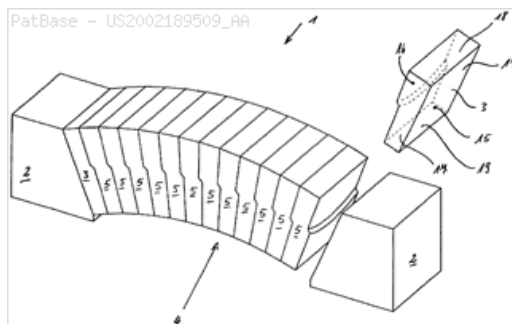
International (IPC 1-7): E04B1/32 E04C3/38 F23M5/06 F27B7/28

F27D1/04 F27D1/2

CPC: E04C3/02 E04C2003/023 F27D1/025

European: E04C3/02 F27D1/02C P04C3/02A

US: 110/331 110/335 110/341



Family:

Publication number	Publication date	Application number	Application date
AT261099 E	20040315	AT20020008499T	20020415
BRPI0201613 A	20030311	BR2002PI01613	20020506
BRPI0201613 B1	20110405	BR2002PI01613	20020506
DE10121699 A1	20021128	DE20011021699	20010504
DE10121699 B4	20040909	DE20011021699	20010504
DE10121699 B9	20050120	DE20011021699	20010504
DE10121699 C5	20100408	DE20011021699	20010504
DE50200266 D1	20040408	DE20025000266	20020415
EP1255088 A1	20021106	EP20020008499	20020415
EP1255088 B1	20040303	EP20020008499	20020415
ES2215950 T3	20041016	ES20020008499T	20020415
US2002189509 AA	20021219	US20020139592	20020503
US6705243 BB	20040316	US20020139592	20020503

Priority:

DE20011021699 20010504 DE20025000266 20020415

Probable Assignee: REFRATECHNIK HOLDING GMBH

Assignee(s): (std): KASSAU KLAUS DETLEF ; REFRATECHNIK HOLDING GMBH

Inventor(s): (std): KASSAU KLAUS DETLEF

Inventor(s): KLAUS DETLEF KASSAU ; KASSAU KLAUS

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

116) Family number: 22802696 (US3208188A)

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Title: BURIAL VAULTS

Abstract: 1. An air-seal burial vault formed of lightweight plastic resinous material and comprising a generally rectangular-shaped base member including a generally channel-shaped bottom marginal wall portion having an open top, and a raised generally horizontally extending casket-supporting platform disposed above and within the said marginal bottom wall portion and interconnected thereto by generally vertically extending side and end web portions extending between the said marginal bottom wall portion and the said raised platform of said base member, a generally dome-shaped cover member including a generally arcuate top wall having a rounded but relatively flat outer surface and a complementary arcuate inner surface and an open bottom, and including side walls and end walls extending substantially parallel to the said side and end web portions, respectively, of the said base member outwardly of the latter, the said side walls and end walls of the said dome-shaped cover member having lower edge portions disposed in the said channel-shaped marginal bottom wall portion of the said base member outwardly of the said interconnecting web portions, sealing means disposed in the said channel-shaped marginal bottom wall portion and around the lower edge portions of the said side walls and end walls of the said dome-shaped cover member disposed therein, the said generally dome-shaped cover member having a plurality of spaced parallel hollow and generally channel-shaped reinforcing members attached thereto only on the inner surfaces thereof, each of the said spaced parallel hollow reinforcing members comprising a bottom wall with spaced legs projecting therefrom, said hollow reinforcing members having upper portions extending across the top wall of the said cover member on the inner surface thereof with the bottom wall of said upper portions of said reinforcing members extending in a plane substantially parallel to said casket supporting platform and the vertical distance between the bottom wall and the inner surface of said top wall of the cover member decreasing along the length of the reinforcing members from their center to the outer edge portions thereof adjacent the cover side walls, and each of the said hollow and generally channel-shaped reinforcing members having a portion extending downwardly over the inner surface of each of the said side walls of said cover member on the inner surface thereof continuing from the outer edge portions of said upper portions of said reinforcing members to a point adjacent the upper surface of the said raised generally horizontally extending casket-supporting platform of the said base member, each of the said downwardly extending portions of the said hollow and generally channel-shaped reinforcing members having the distance between the channel bottom wall thereof and the inner surface of the adjacent cover side wall gradually decreasing along the length thereof from its upper end portion to its lower end portion with the width of said channel bottom wall gradually increasing as said distance decreases, and the said raised horizontally extending casket-supporting platform portion of the said base having a plurality of spaced parallel upwardly and transversely extending casket-supporting and base strengthening members thereon and projecting upwardly above the surface of the said raised platform portion of the said base.

Classifications:

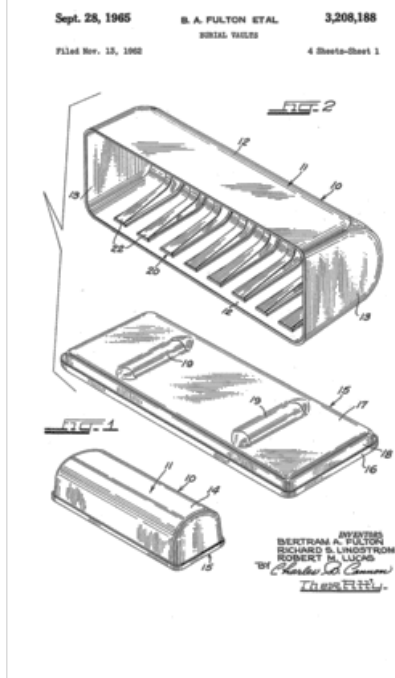
International (IPC 8-9): A61G17/00 E04H13/00 (Advanced/Invention); A61G17/00 E04H13/00 (Core/Invention)

International (IPC 1-7): A61G17/00

CPC: E04H13/00 A61G17/007 A61G17/02

European: A61G17/00 E04H13/00

US: 27/35 52/138

**Family:**

Publication number	Publication date	Application number	Application date
US3208188 A	19650928	US19620237254	19621113

Priority:

US19620237254 19621113

Probable Assignee: WILBERT W HAASE CO**Assignee(s):** (std): WILBERT W HAASE CO**Inventor(s):** (std): FULTON BERTRAM A ; LINDSTROM RICHARD S ; LUCAS ROBERT M**117) Family number: 60733698 (US9181692B)**

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Title: COVERING SYSTEM FOR A BUILDING SUBSTRATE

Abstract: A covering system for a building substrate is disclosed. The covering system comprises at least two panels having two opposite, gutter shaped joints, and a joint linking system comprising a cleat configured to accept the adjacent joints, a compression cap configured to bridge the adjacent joints, means for attaching the compression cap and cleat to the building substrate, and a cover cap configured to lie flush with the panels and conceal the compression cap and the attaching means. When assembled, the covering system forms a watertight seal on and prevents water leakage into the building substrate. Further, the covering system provides hidden fasteners, an internal drainage channel which removes any moisture that migrates into the system, and joints which allow for expansion and contraction of the panels during assembly and in the course of environmental changes once installed.

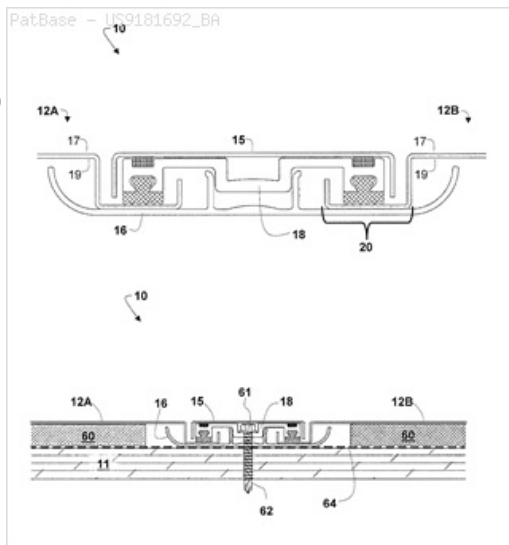
Classifications:

International (IPC 8-9): E04B1/64 E04B1/68 E04D1/28 E04D1/34 E04F13/24 E04F15/02 (Advanced/Invention)

CPC: E04B1/64 E04B1/6812 E04F15/02044 E04F13/0898

E04F13/0875 E04F13/12 E04F17/00 E04F19/024 E04F13/24 E04D3/30 E04D3/365 E04D3/366 E04D3/369 E04D1/28

US: 1/1

**Family:**

Publication number	Publication date	Application number	Application date
US9181692 BA	20151110	US20140322318	20140702

Priority:

Probable Assignee: OVERLY MFG CO**Assignee(s):** (std): CALLAWAY SCOTT ; FLASIK KENNETH ; OTT DOUGLAS ; OVERLY MFG CO ; WATKINS RICHARD**Inventor(s):** (std): CALLAWAY SCOTT ; WATKINS RICHARD ; OTT DOUGLAS ; FLASIK KENNETH**Agent(s):** COHEN AND GRIGSBY PC**118) Family number: 3034703** (FR2203918A)

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Abstract: Source: FR2203918A [FR] (Claim 1) 1 - Batiment demontable, caracterise en ce qu'il comprend plusieurs charpentes en forme de volte disposees transversalement deplacables dans le sens longitudinal, une couverture sous la forme de plusieurs bandes de tissu allongees separees, chaque bande etant etiree entre deux charpentes contigues en forme de valutes, et un dispositif de degagement fixant les bords en visa-vis des bandes de tissu aux charpentes.

Machine translation: (Claim 1) 1 - Building removable, characterized in that it comprises several structures in the shape of flip arranged transversely displaceable in the longitudinal direction, coverage in the form of elongated strips of cloth several separate, each band being stretched between two contiguous frames in the shape of World Records, and a release device fixing the edges visa-vis strips of fabric to frames.

Classifications:**International (IPC 8-9):** E04B1/32 E04B1/343 E04H15/52

E04H3/16 (Advanced/Invention);

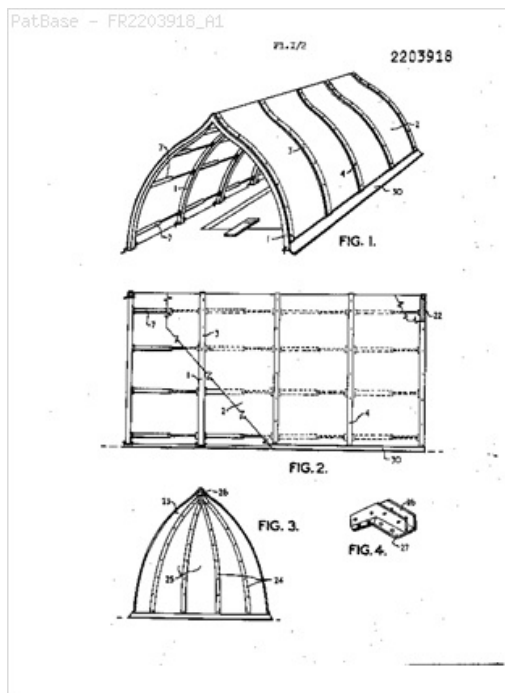
E04B1/32 E04B1/343 E04H15/34 E04H3/14 (Core/Invention)

International (IPC 1-7): E04B1/00 E04B1/343**CPC:** E04B1/32 E04B1/34315 E04B2001/3241 E04B2001/3252

E04H3/165 E04H15/52

European: E04B1/32 E04B1/343C E04H15/52 E04H3/16B

P04B1/32M1 P04B1/32M2

**Family:**

Publication number	Publication date	Application number	Application date
FR2203918 A1	19740517	FR19720037249	19721020
FR2203918 B1	19771230	FR19720037249	19721020

Priority:

FR19720037249 19721020

Probable Assignee: SPRUNG PHILIP**Assignee(s):** (std): SPRUNG PHILIP**Assignee(s):** SPRUNG PHILIP CA**119) Family number: 55187707** (WO13171772A1)

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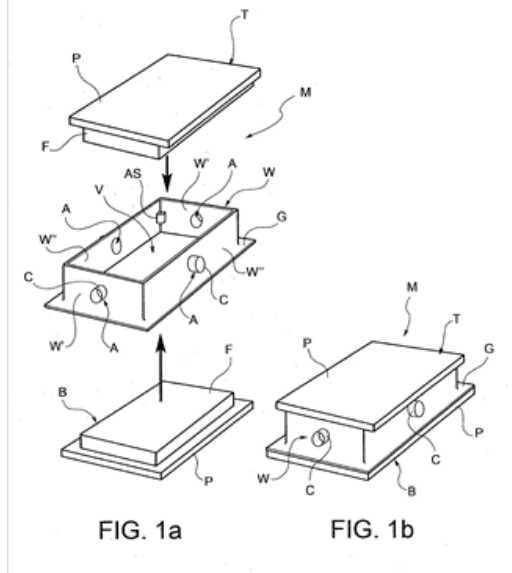
Title: MODULAR-BASED, CONCRETE FLOOR OR ROOFING BUILDING STRUCTURE

Abstract: A floor or roofing building structure (S) is described, including a plurality of intercommunicating roofing modules (M) arranged side by side; a connecting reinforcement (R) arranged between the modules (M); and a binder material matrix (X) adapted to embed the roofing modules (M) and the connecting reinforcement (R) so as to form a self-supporting monolithic structure. Each roofing module (M) comprises a housing volume (V) adapted to receive at least one functional element (F) of the structure (S), which is laterally defined by a wall (W), which has at least one communication opening (A) adapted to be joined in continuity to a corresponding opening (A) defined on the side wall (W) of an adjacent module (M) through an associated operative channel (C), and is superiorly and inferiorly defined by a pair of removable base elements (T, B) arranged to close the housing volume (V), which are accessible from opposite sides of the structure (S).

Classifications:**International (IPC 8-9):** E04B5/21 E04B5/48 E04B7/18

E04B7/20 (Advanced/Invention)

CPC: E04B5/48 E04B7/20 H02G3/385 H02G3/388 E04B5/21

**Family:**

Publication number	Publication date	Application number	Application date
EP2850256 A1	20150325	EP20120735648	20120517
WO13171772 A1	20131121	WO2012IT00144	20120517

Priority:

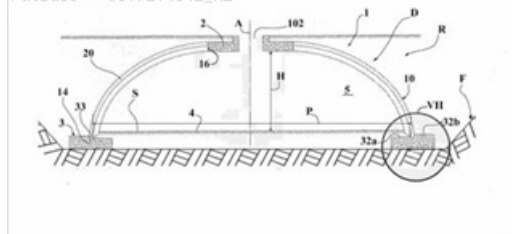
WO2012IT00144 20120517

Probable Assignee: VASS TECHNOLOGIES S R L**Assignee(s):** (std): CASETTA ALESSANDRO ; GIANOLIO GIUSEPPE ; MERCANTE LUCA ; MULATTIERI SIMONE ; MENZIO GIACOMO ; MORONE BRUNO ; VAIRA ALESSANDRO ; VASS TECHNOLOGIES S R L**Assignee(s):** VASS TECHNOLOGIES SRL**Inventor(s):** (std): CASETTA ALESSANDRO ; GIANOLIO GIUSEPPE ; MORONE BRUNO ; MULATTIERI SIMONE ; MENZIO GIACOMO ; MERCANTE LUCA ; VAIRA ALESSANDRO**Agent(s):** DEAMBROGI EDGARDO**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**120) Family number: 36080708 (WO07104841A1)**

© PatBase

Title: CONCRETE DOOM AND METHOD OF CONTRUCTION THEREOF

Abstract: Construction of a dome for roofing over an area (S, 4) comprising a lower belt (3), an upper belt (2), and a roof (1) in the form of a curved dome. The roof (1) consists of prefabricated reinforced-concrete elements (10), each forming a voussoir (10) of approximately trapezoidal shape having a broad lower base (14) resting on the lower belt (3), a narrow upper base (16) fixed to the upper belt (2), and two lateral sides (12) which converge in the upwards direction, said prefabricated voussoirs (10) being laid side by side on the previously prepared lower belt (3) and their upper bases (16) being sealed into an upper belt (2) which is cast in situ after said voussoirs (10) have been laid. Such a dome can be buried under filling material and can be used to roof over a large hall.

Classifications:**International (IPC 8-9):** E04B1/32 (Advanced/Invention); E04B1/32 (Core/Invention)**CPC:** E04B1/3211 E04B2001/327**European:** E04B1/32C P04B1/32P**Family:**

Publication number	Publication date	Application number	Application date
WO07104841 A1	20070920	WO2006FR50221	20060313

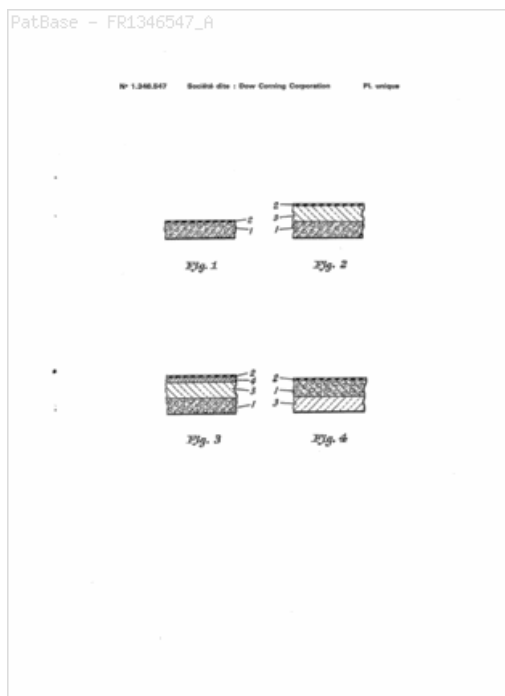
Priority:

WO2006FR50221 20060313

Probable Assignee: SOC CIV D BREVETS MATIERE**Assignee(s):** (std): MATIERE MARCEL ; SOC CIV D BREVETS MATIERE**Assignee(s):** SOCIETE CIVILE DE BREVETS MATIERE ; CIVILE DE BREVETS MATIERE SOC**Inventor(s):** (std): MATIERE MARCEL**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL

121) Family number: 23000715 (FR1346547A)

© PatBase

Title: TOIT A PAROI MINCE ETANCHE A SURFACE PORTANTE ROOF WALL THIN TIGHT BEARING SURFACE (Machine translation)**Abstract:** Source: FR1346547A [FR] (Claim 1) 1. Un toit pour une construction comprenant un element de paroi mince rigide a surface portante, ledit toit ayant au moins une majeure partie de sa surface exterieure, couverte d'une membrane de caoutchouc de silicone qui protege de l'infiltration de l'eau, les elements interieurs du toit et l'interieur de la construction;**Machine translation:** (Claim 1) 1. A roof for a building element comprising a thin wall rigid bearing surface, said roof having at least a major part of its outer surface, covered with a silicone rubber membrane which protects the infiltration of water, interior elements of the roof and the interior construction;**Classifications:****International (IPC 8-9):** C08L83/04 E04D5/10 (Advanced/Invention);
C08L83/00 E04D5/00 (Core/Invention)**International (IPC 1-7):** E04D5/10**CPC:** C08G77/04 C08L83/04 E04D5/10**European:** C08L83/04 E04D5/10 M08G77/04**Family:**

Publication number	Publication date	Application number	Application date
FR1346547 A	19631220	FR19620918782	19621217

Priority:

FR19620918782 19621217

Probable Assignee:

DOW CORNING

Assignee(s): (std):

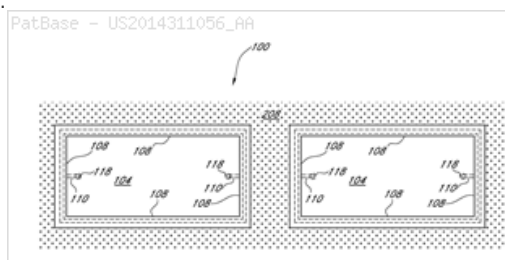
DOW CORNING

Assignee(s):

DOW CORNING CORP

122) Family number: 56823718 (US2014311056A)

© PatBase

Title: GRAVE MARKER ASSEMBLY**Abstract:** A grave marker assembly that can be removably mounted and secured to a support surface such as a lawn crypt lid. The grave marker assembly has a fastening system that is not exposed to view and yet allows the grave marker to be easily installed and removed. The fastening system includes a channel and interior opening formed on a base member that is adapted to receive a fastener. The fastener in turn is adapted to be inserted into an opening formed on the crypt lid or other support surface. The assembly further includes a multi-function frame disposed along the outer periphery of the memorial marker that can serve as a decorative feature and draining functions.**Classifications:****International (IPC 8-9):** E04H13/00 (Advanced/Invention)**CPC:** E04H13/003**US:** 27/30 40/124.5 52/103 52/139 52/711**Family:**

Publication number	Publication date	Application number	Application date
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US2014311056 AA	20141023	US20140320365	20140630
US8763318 BA	20140701	US20100947576	20101116

Priority:

US20100947576 20101116 US20140320365 20140630

Probable Assignee: BOBBITT GARY

Assignee(s): (std): BOBBITT GARY

Inventor(s): (std): BOBBITT GARY

Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP

123) Family number: 694726 (FR2126910A)

© PatBase

Abstract: Source: FR2126910A [FR] (Claim 1) 1 - Barres de charpente, earacterisees par le fait que leur montage sur des elements modules permet de reconstituer des poutres ou nappes de renfort, travaillant en association avec les ele- ments.

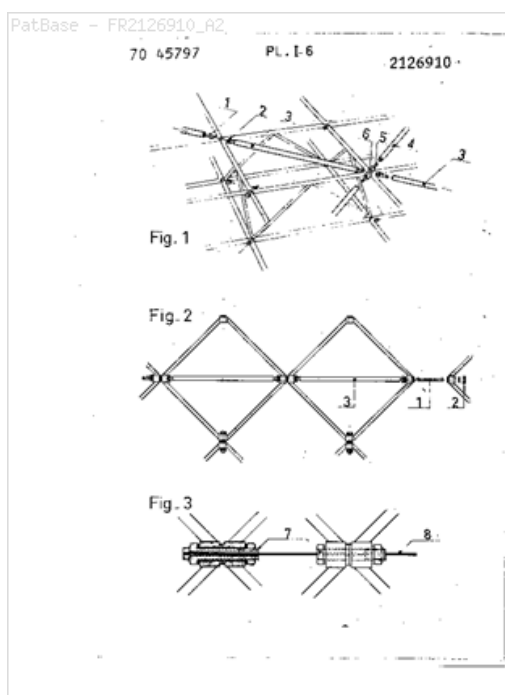
Machine translation: (Claim 1) 1 - Bars frame, earacterisees by the fact that the mounting elements on modules can reconstruct beams or reinforcing plies, working in association with the elements.

Classifications:

International (ipc 1-7): E04B1/00 E04C3/00 F16S3/08

CPC: E04B1/19 E04B2001/1927 E04B2001/1933 E04B2001/1963 E04B2001/1975 E04B2001/1978 E04B2001/1984 E04B2001/1993

European: E04B1/19 P04B1/19C1 P04B1/19C2 P04B1/19D2 P04B1/19E P04B1/19F P04B1/19G2 P04B1/19K



Family:

Publication number	Publication date	Application number	Application date
FR2126910 A2	19721013	FR19700045797	19701218
FR2126910 B2	19740215	FR19700045797	19701218

Priority:

FR19700045797 19701218

Probable Assignee: PETROFF LEON

Assignee(s): (std): PETROFF LEON

Assignee(s): PETROFF LEON FR

124) Family number: 44926738 (US2010095606A)

© PatBase

Title: FACETED METAL SUSPENDED CEILING

Abstract: A non-planar suspended panel system comprising a metal grid formed of curved main runners and straight cross runners extending between the main runners, a plurality of panels supported on the grid, the panels each having flat major faces with quadrilateral profiles, the edges of a panel being aligned with a pair of main runners and a pair of cross runners, each panel having flanges at its edges extending between its flat face and the runners in a manner that disposes the plane of its flat face generally parallel to chordal lines in the planes of the main runners between the intersections of the associated cross runners and main runners, whereby the panel system extends over a three dimensional surface and the surface is formed of a multitude of facets each formed by one of said panels.

Classifications:

International (ipc 8-9): E04B7/14 E04B9/00 E04B9/06 E04B9/18 E04B9/28 (Advanced/Invention);

E04B9/18 E04B9/28 (Advanced/Non-invention);

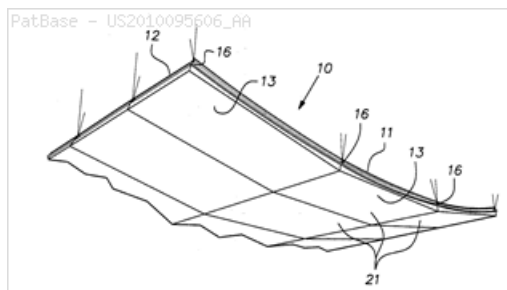
E04B7/14 E04B9/18 E04B9/22 (Core/Invention);

E04B (Subclass/Invention)

CPC: E04B9/061 E04B9/122 E04B9/26 E04B2009/062

European: E04B9/06A E04B9/12B E04B9/26 P04B9/06C

US: 52/83 52/83P



Family:

Publication number	Publication date	Application number	Application date
CA2740870 AA	20100422	CA20092740870	20090924
CN102171403 A	20110831	CN200980138676	20090924
EP2342393 A2	20110713	EP20090820981	20090924
IN03175CN2011 A	20120831	IN2011CN03175	20110509
JP2012505986 T2	20120308	JP20110532127T	20090924
KR20110069137 A	20110622	KR20117010130	20090924
MX2011003603 A1	20110427	MX20110003603	20090924
RU2011117018 A	20121127	RU20110117018	20090924
RU2507351 C2	20140220	RU20110117018	20090924
US2010095606 AA	20100422	US20080252382	20081016
UY32161 A1	20100430	UY20090032161	20091005
WO10044996 A2	20100422	WO2009US58128	20090924
WO10044996 A3	20100708	WO2009US58128	20090924
ZA201103207 A	20120125	ZA20110003207	20110503

Priority:

US20080252382 20081016 WO2009US58128 20090924

Probable Assignee: USG INTERIORS LLC

Assignee(s): (std): BANKSTON JOHN D ; JUEHSDZHI INTERIORS INK ; USG INTERIORS INC

Assignee(s): USG INTERIORS LLC

Inventor(s): (std): BANKSTON JOHN D ; BANKSTON DZHON D

Inventor(s): JOHN D BANKSTON ; BANKSTON JOHN

Agent(s): GOWLING LAFLEUR HENDERSON LLP; CARPMAEL ROBERT MAURICE CHARLES; PEARNE AND GORDON LLP; SHIMOLA HOWARD G ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

125) Family number: 32482739 (US2005281999A)

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Title: STRUCTURAL AND OTHER COMPOSITE MATERIALS AND METHODS FOR MAKING SAME

Abstract: In accordance with the present invention, structural and other composite materials have been developed which have superior performance properties, including high compressive strength, high tensile strength, high shear strength, and high strength-to-weight ratio, and methods for preparing same. Invention materials have the added benefits of ease of manufacture, and are inexpensive to manufacture. The superior performance properties of invention materials render such materials suitable for a wide variety of end uses. For example, a variety of substances can be applied to invention materials without melting, dissolving or degrading the basic structure thereof. This facilitates bonding invention materials to virtually any surface or substrate. Moreover, the bond between invention materials and a variety of substrates is exceptionally strong, rendering the resulting bonded article suitable for use in a variety of demanding applications. Invention materials can be manufactured in a wide variety of sizes, shapes, densities, in multiple layers, and the like; and the performance properties thereof can be evaluated in a variety of ways.

Classifications:

International (IPC 8-9): B29C44/56 B29C67/24 B29C70/66 B32B27/00 B32B3/26 B32B5/18 B32B5/30 B32B9/00 C08G18/32 C08G18/76 C08J3/20 C08J5/04 C08J5/24 C08J9/00 C08J9/02 C08J9/236 C08J9/35 C08J9/40 C08K3/00 C08K5/00 C08K7/24 C08L101/00 C08L25/06 C08L75/04 (Advanced/Invention); B29C44/34 B29C67/24 B29C70/00 C08J9/00 C08K3/00 C08K5/00 C08K7/00 C08L101/00 C08L75/00 (Core/Invention); E04C (Subclass/Invention)

International (IPC 1-7): B32B27/00 B32B3/26 B32B5/22 B32B9/00 C08J5/24 C08J9/00 C08J9/35 C08J9/36 C08J9/42 E04C1/00

CPC: B29C44/5618 B29C67/24 B29C70/66 C08J9/236 C08J9/405 Y10T428/249953 Y10T428/249967 Y10T428/249987 Y10T428/249991 B32B2305/026 B32B2038/0076 B32B2266/0228 B32B2266/025 B32B2419/00 B32B5/18 B32B5/30 B32B2305/08 B32B2307/546

European: B29C44/56D B29C67/24 B29C70/66 B32B5/18 B32B5/30 C08J9/236 C08J9/40F

US: 264/271.1 264/271.100S 264/46.4 264/46.400S 428/304.4 428/304.400P 428/312.2 428/312.200S 428/318.4 428/318.400S 428/319.3 428/319.300S

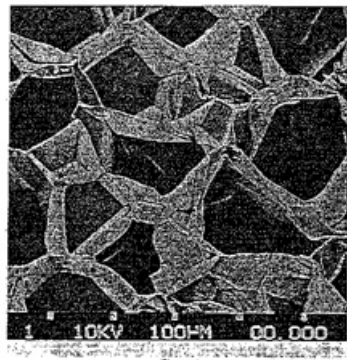


Figure 1

Family:

Publication number	Publication date	Application number	Application date
AR043604 AA	20050803	AR2004P100844	20040315
AU2004219602 AA	20040923	AU20040219602	20040312
BRPI0408487 A	20060502	BR2004PI08487	20040312
CA2518873 AA	20050909	CA20042518873	20040312
CL2004000530 A1	20041217	CL20040000530	20040315
CN1759139 A	20060412	CN200480006408	20040312
EA200501400 A1	20060428	EA20050001400	20040312
EP1611194 A2	20060104	EP20040720493	20040312
IL170538 A0	20060221	IL20040170538	20040312
IN03865DN2005 A	20070817	IN2005DN03865	20050830
JP2006519908 T2	20060831	JP20060507182T	20040312
KR20060009234 A	20060131	KR20057016813	20040312
MXPA05009617 A1	20060321	MX2005PA09617	20040312
TH69578 A	20050712	TH20041000880	20040312
TW200500402 A	20050101	TW20040106735	20040312
US2005281999 AA	20051222	US20050061301	20050217
WO04081311 A2	20040923	WO2004US07800	20040312
WO04081311 A3	20050407	WO2004US07800	20040312
WO05118275 A2	20051215	WO2005US15870	20050506
WO05118275 A3	20060309	WO2005US15870	20050506

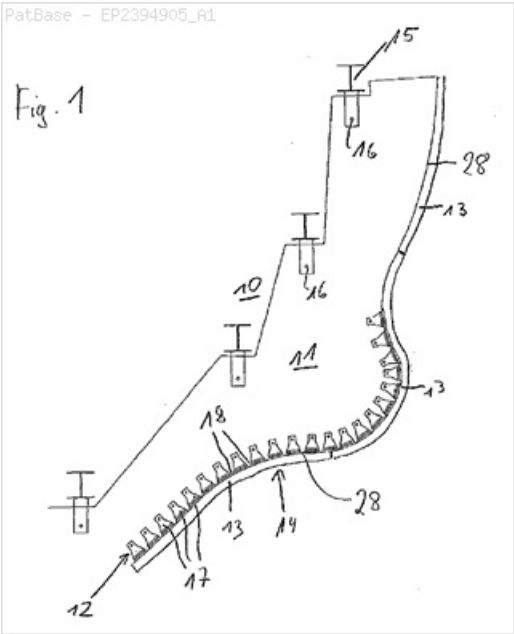
Priority:

US20030388295 20030312	US20040799366 20040312	WO2004US07800 20040312
US20040840947 20040507	US20040918663 20040812	US20040947647 20040922
US20050061301 20050217		

Probable Assignee: PETRITTECH INC**Assignee(s):** (std): ACKERT BRUCE ; COLLINS CRAIG K ; DYLAN TYLER M ; HOFFMAN RAY F ; MEIROWITZ RANDY E ; PETRITTECH INC**Assignee(s):** HOFMANN RAY F**Inventor(s):** (std): HOFFMAN RAY F ; MEIROWITZ RANDY E ; DYLAN TYLER M ; HOFFMANN RAY F ; HOFMANN RAY F ; HOFMANN RAY F ; ACKERT BRUCE ; COLLINS CRAIG K ; COLLINS ; HOFFMANN RAY F ACKERT BRUCE CO ; BRUCE ACKERT ; TYLER M DYLAN ; CRAIG K COLLINS ; RAY F HOFMANN ; RANDY E MEIROWITZ**Inventor(s):** ACKER BRUCE ; HOFFMAN RAY K ; HOFFMANN RAY F ACKERT BRUCE COLLINS CRAIG K MEIROW**Agent(s):** SPRUSON AND FERGUSON; GOWLING LAFLEUR HENDERSON LLP; CLARKE; FOLEY AND LARDNER**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**126) Family number: 50098742 (EP2394905B1)**

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Title: A SUPPORT PROFILE FOR A CONSTRUCTION BOARD UN PROFILE DE SUPPORT POUR UN PANNEAU D**Abstract:** The profile (12) has a set of segments (17) provided with segment fastening surfaces and arranged one behind the other. The segments are integrally connected with each other and tilt against each other around a tilting axis. The tilting axis lies in a plane that is specified by the segment fastening surfaces of two of the segments. A gap-shaped recess and/or a V-shaped recess are formed between the segment fastening surfaces of the segments. A fastening device i.e. mounting hole, is formed in segment side surfaces of the segments for fixing the profile in a frame (11).**Classifications:****International (IPC 8-9):** B63B B63B3/28 B63B5/12 B63B9/06 B64F5/10 E04B E04B9/06 E04F E04F11/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
EP2394905 A1	20111214	EP20100165174	20100608
EP2394905 B1	20181205	EP20100165174	20100608
ES2713348 T3	20190521	ES20100165174T	20100608
HK1164239 A1	20120921	HK20120101954	20120227

Priority:

EP20100165174 20100608

Probable Assignee: KNAUF GIPS KG

Assignee(s): (std): KNAUF GIPS KG

Inventor(s): (std): THORWART MICHAEL

Agent(s): ZECH STEFAN MARKUS; ISERN JORGE; CLT PATENT AND TRADEMARK HK LTD

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

127) Family number: 12948751 (US5603188A)

PatBase

Title: ARCHITECTURAL BODY HAVING A QUASICRYSTAL STRUCTURE

Abstract: An architectural body having a quasicrystal structure formed from a lattice framework, plate framework, or lattice-membrane framework. The lattice framework comprises elongated members connected at nodes corresponding to computer generated vertex positions from a computer program. The plate framework comprises rhombus shaped plates formed into cells of either an acute rhombic hexahedron or an obtuse rhombic hexahedron. The cells are fastened together to form the quasicrystal structure. The lattice-membrane structure is formed by a lattice framework which is then covered by a tensile membrane.

Classifications:

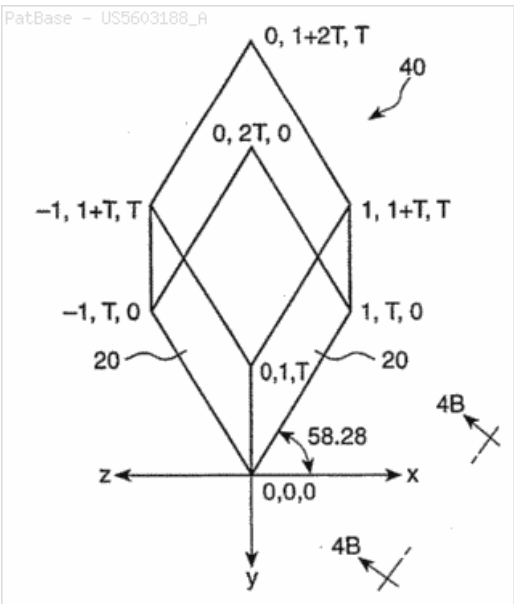
International (IPC 8-9): E04B1/19 E04B7/10 (Advanced/Invention); E04B1/19 E04B7/10 (Core/Invention)

International (IPC 1-7): E04B7/08

CPC: E04B1/19 E04B1/1906 E04B7/105 E04B2001/1927 Y10S52/10

European: E04B1/19 E04B7/10C P04B1/19B1 P04B1/19C1

US: 52/81.1 52/DIG.1 52/DIG.10



Family:

Publication number	Publication date	Application number	Application date
US5603188 A	19970218	US19930095371	19930708

Priority:

US19890429933 19891031

US19920877972 19920504

US19930095371 19930708

Probable Assignee:

ROBBIN ANTHONY S

Assignee(s):

ROBBIN ANTHONY S

Inventor(s): (std):

ROBBIN ANTHONY S

128) Family number: 21583756 (FR1524526A)

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Title: BLOCS CREUX A FACES VUES INDEPENDANTES, POUR CREATION DE PANNEAUX TRANSPARENTS, TRANSLUCIDES, OU OPAQUES BLOCK HOLLOW INDEPENDENT VIEWS FACES FOR CREATING PANEL TRANSPARENT, TRANSLUCENT OR OPAQUES (Machine translation)

Abstract: Source: FR1524526A [FR] (Claim 1) 1. traditionnels et connus), l'etancheite des panneaux pouvant etre parfaitement obtenue par un calfeutrage peripherique. RESUME Les blocs creux a faces vues independantes trouvent particulierement leur emploi, pour les creations de panneaux, transparents, translucides ou de couleur, les joues desdits blocs pouvant etre realisees, en verre, en matieres plastiques ou en toutes matieres similaires. Les blocs creux pouvant etre crees selon les formes les plus diverses, il peut etre realise des panneaux epousant toutes les courbures positives. D'autre part, ces panneaux pouvant etre prefabriques en blocs creux legers, il est possible de creer facilement des plafonds, plans, ou formant voutes ou coupoles.

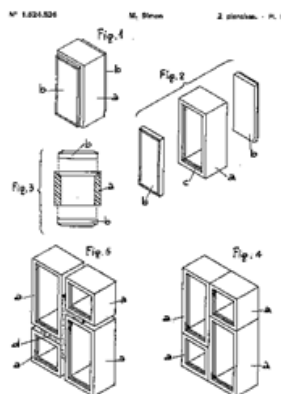
Machine translation: (Claim 1) 1. traditional and known), the sealing of the panels can be fully obtained by a peripheral caulking. SUMMARY The hollow blocks are independent views faces a particularly their jobs, for the creations of panels, transparent, translucent or colored cheeks of said blocks may be implemented, glass, plastics or any similar material. The hollow blocks can be created according to the most diverse forms, it can be realized signs espousing all positive curvatures sible. Moreover, these panels can be prefabricated lightweight hollow blocks, it is possible to easily create ceilings, plans, or forming vaults or domes.

Classifications:**International (IPC 8-9):** E04C 1/42 (Advanced/Invention);

E04C 1/00 (Core/Invention)

CPC: E04C 1/42**European:** E04C 1/42

PatBase - FR1524526_A

**Family:**

Publication number	Publication date	Application number	Application date
FR1524526 A	19680510	FR19670106819	19670518

Priority:

FR19670106819 19670518

Inventor(s): (std):

SIMON ANDRE PAUL MARIE

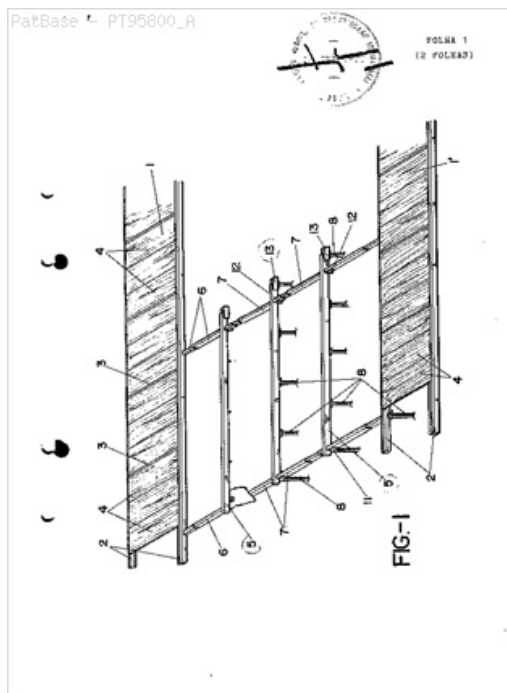
129) Family number: 19240757 (PT95800A)

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Title: Improvements to recoverable formwork (shuttering) systems for slabs with planar master girders (beams)

Abstract: The improvements in question relate to the structure which is to be arranged in the voids determined between the planar master girders 1 and 1', this structure being intended to act as support for the small beams (rafters) which are to secure the small arches (domes) for the formwork. The structure proper is metallic and consists of longitudinal members (stringers) 5 and of extendible transverse sections (profiles) 6 and 7, the extendible transverse sections 6 being corner or end sections, whereas the extendible transverse sections 7 are intermediate sections, being supplemented by support heads 11 and 12 in correspondence with the nodes (joints) or points of intersection of the longitudinal members with the extendible transverse sections, with the special feature that one of the ends of the longitudinal members 5 has a single head 13 which, in addition to resting on the corresponding support stays 8, constitutes a means of support for the end of another of the longitudinal members 5 which is to be arranged correlatively in front in order longitudinally to cover the void between the master girders 1 and 1'.

Classifications:**International (IPC 8-9):** E04G 11/08 (Advanced/Invention);



Family:

Publication number	Publication date	Application number	Application date
ES2017323 AF	19910116	ES19890003786	19891108
PT95800 A	19920630	PT19900095800	19901106

Priority:

ES19890003786 19891108

Probable Assignee: ULMA S COOP

Assignee(s): (std): ULMA S COOP ; ULMA S COOP LTDA

Inventor(s): (std): IRURZUN SAEZ DE MATURANA MIGUE ; IRURZUN SAEZ DE MATURANA MIGUEL ANGEL ; MATURANA MIGUEL ANGEL IRURZUN ; MIGUEL ANGEL IRURZUN SAEZ DE MATURANA

130) Family number: 50554761 (DE102012108593A1)

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Title: Verbindungssystem zur Verbindung von Bauteilen aus Stahl und/oder Stahlbeton oder Spannbeton A connection system for connecting components made of steel and / or reinforced concrete or prestressed concrete (Machine translation)

Abstract: Source: DE102012108593A1 [DE] Die Erfindung bezieht sich auf ein Verbindungssystem zum Verbinden von Bauteilen aus Stahl und/oder Stahlbeton oder Spannbeton zur Herstellung von Bauwerken auf dem Gebiet des Hoch-, Tief- und Wasserbaus sowie des Brueckenbaus. Ausgehend von den Nachteilen bekannter Loesungen soll ein Verbindungssystem geschaffen werden, das sich durch einen geringeren Materialeinsatz und Montageaufwand auszeichnet und fuer hoehere mechanische Beanspruchungen geeignet ist. Als Loesung wird ein Linienvorbinder, der sich ueber die gesamte Verbindungslaenge der zu verbindenden Bauteile erstreckt, vorgeschlagen, der aus einem inneren Teil 3, 8 mit einem ersten Verbindungselement 5 und einem hohlprofilartigen aeusseren Teil 4 mit einem zweiten Verbindungselement 6 besteht. Das innere Teil 3, 8 ist in das aeussere Teil 4 einschiebbar. Das eine Teil 3, 8 ist mit einem ersten Bauteil 1 und das andere Teil 4 mit einem zweiten Bauteil 2 ueber zugehoerige Verbindungselemente 5, 6 fest verbunden. Nach erfolgter Montage werden inneres Teil 3, 8 und aeussere Teil 4 stoffschiessig mittels eingebrachter Vergussmasse 7 miteinander verbunden.

Machine translation: The invention relates to a connection system for joining components made of steel and / or reinforced concrete or prestressed concrete for producing structures in the field of engineering, civil and hydraulic engineering, and construction of the bridge. Based on the disadvantages of known solutions to a connection system to be created, which is characterized by a less material and installation costs and for higher mechanical stresses is suitable. As a solution, a line connector which extends over the entire connection length the components to be connected, as proposed, which consists of an inner portion 3, 8 to a first connection element 5 and a hollow-profile-like outer member 4 with a second connection element 6. The inner part 3, 8 can be inserted into the outer part 4. Which is a part 3, 8 with a first component 1 and the other part 4 to a second component by two associated connecting elements 5, 6 rigidly connected. After mounting inner part 3, 8 and outer part 4 by means of introduced stoffschiessig potting 7 together.

Classifications:

International (IPC 8-9): E04B1/38 E04B1/41 (Advanced/Invention)

CPC: E04B1/043 E04B1/21

European: E04B1/04B E04B1/21

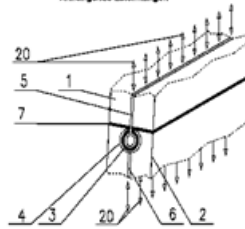


Fig. 1

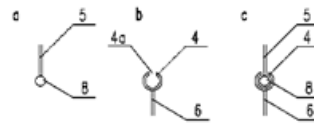


Fig. 2

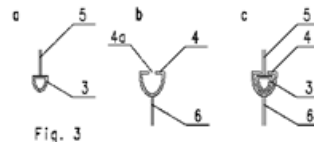


Fig. 3

Family:

Publication number	Publication date	Application number	Application date
DE102012108593 A1	20130321	DE201210108593	20120914
DE202011105714 U1	20120209	DE201120105714U	20110916

Priority:

DE201120105714U 20110916 DE201210108593 20120914

Probable Assignee: INGBUERO MITSCHKE AND PEINE GBR VERKEHRSBAUPLANUNG VERTRETUNGSBERECHTIGTER GESELLSCHAFTER EKKEHART MIT

Assignee(s): (std): INGBUERO MITSCHKE AND PEINE GBR VERKEHRSBAUPLANUNG VERTRETUNGSBERECHTIGTER GESELLSCHAFTER EKKEHART MIT

Assignee(s): INGENIEURBUERO MITSCHKE AND PEINE GBR VERKEHRSBAUPLANUNG VERTRETUNGSBERECHTIGTER GESELLSCHAFTER EKKEHART MITSCHKE ; INGENIEURBUERO MITSCHKE AND PEINE GBR VERKEHRSBAUPLANUNG VERTRETUNGSBERECHTIGTER GESELLSCHAFTER EKKEHART MITSCHKE 06846 DESSAU AND AXEL PEINE 06842 DESSAU

Inventor(s): (std): PEINE AXEL ; MITSCHKE EKKEHART

131) Family number: 1739773 (US4275801A)

Title: NOISE AND HEAT INSULATING STRUCTURAL COMPONENT

Abstract: The present noise and heat insulating structural component may form a wall panel or a window element if the component is made of transparent material. Between two substantially parallel outer walls there is arranged at least one auxiliary damping wall forming a plurality of evacuated pockets each having a vaulted or domed surface when the auxiliary wall is substantially free of a load condition. The auxiliary wall may be secured to one or both of the outer walls, for example, by adhesive. Alternatively the auxiliary damping wall may be secured to a further inner wall member or it may be held in position only at its edges substantially intermediate between the outer walls.

Classifications:

International (IPC 8-9): E04B1/80 E04B1/88

E06B3/67 (Advanced/Invention);

E04B1/84 (Advanced/Non-invention);

E04B1/74 E04B1/80 E06B3/66 (Core/Invention);

E04B1/84 (Core/Non-invention)

International (IPC 1-7): E04B1/88 E04B2/00 E04B2/02 E04B2/14

E04C2/54 E06B3/66 E06B5/00 E06B5/20

CPC: Y10T428/24661 E06B3/6612 E04B1/803 E04B1/88

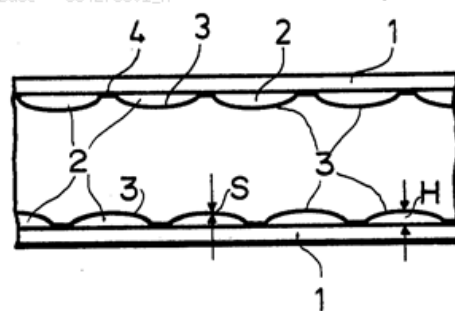
E04B2001/8471 E04B2001/8476 E06B3/6707 E06B3/6715 Y02B80/12

Y02B80/24 Y02A30/242 Y02A30/25

European: E04B1/80B E04B1/88 E06B3/66D E06B3/67D E06B3/67F

P04B1/84S2F P04B1/84S4 Y02B80/12 Y02B80/24

US: 181/289 181/290 428/178 52/144 52/786.11

**Family:**

Publication number	Publication date	Application number	Application date
DE2838193 A1	19800306	DE19782838193	19780901
DE2838193 C2	19830324	DE19782838193	19780901
FR2434906 A1	19800328	FR19790021712	19790829
FR2434906 B1	19840706	FR19790021712	19790829
GB2031479 A1	19800423	GB19790029208	19790822
GB2031479 B2	19830216	GB19790029208	19790822
IT1122734 A	19860423	IT19790024990	19790808

IT7924990 A0	19790808	IT19790024990	19790808
US4275801 A	19810630	US19790067219	19790817

Priority:

DE19782838193 19780901

Probable Assignee: MESSERSCHMITT BOELKOW BLOHM

Assignee(s): (std): MESSERSCHMITT BOELKOW BLOHM

Assignee(s): MESSERSCHMITT BOELKOW BLOHM GES ; MESSERSCHMITT BOELKOW BLOHM GES MIT BESCHRAENKTER ; MESSERSCHMITT BOELKOW BLOHM GES MIT BESCHRAENKTER HAFTUNG ; MESSERSCHMITT BOLKOW BLOHM GMBH ; MESSERSCHMITT BOELKOW BLOHM GMBH ; MESSERSCHMITT BOELKOW BLOHM GMBH 8000 MUENCHEN DE ; MESSERSCHMITT BOELKOW BIOHM GES MIT BESCHRANKTER HAFTUNG ; MESSERSCHMITT BOELKOW BIOHM GESELLSCHAFT MIT BESCHRANKTER HAFTUNG

Inventor(s): (std): BSCHORR OSKAR ; BSCHORR OSKAR DIPL ING DR

Inventor(s): BSCHORR OSKAR DIPL INGDR ; BSCHORR OSKAR DIPL ING DR 8000 MUENCHEN DE

132) Family number: 18099775 (GB238382A)

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Title: Improvements in the construction of concrete floors

Abstract: Ventilation systems.-Floors of arched form, cast in situ between parallel ribbed concrete beams 1, are provided with a plaster-carrier 6 and the channels formed by the floor, carrier, and beams serve as ventilating means. Holes or ventilating domes 10, which may be adjustable, are provided in the carrier 6.

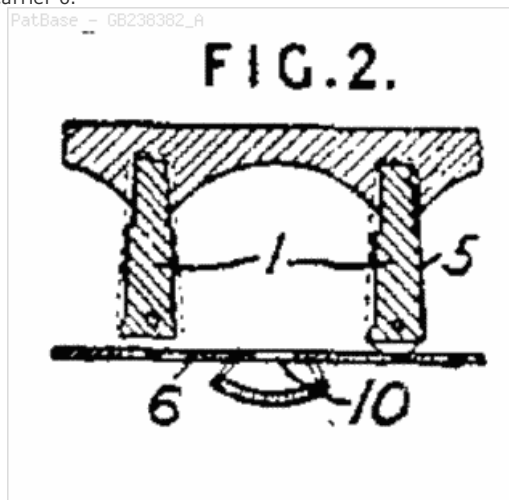
Classifications:

International (IPC 8-9): E04B5/23 (Advanced/Invention); E04B5/17 (Core/Invention)

International (IPC 1-7): E04B5/06

CPC: E04B5/23

European: E04B5/23



Family:

Publication number	Publication date	Application number	Application date
GB238382 A	19250820	GB19240020632	19240901

Priority:

GB19240020632 19240901

Probable Assignee: WILHELM HERBST

Assignee(s): (std): WILHELM HERBST

133) Family number: 17112777 (US4371575A)

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Title: RIGID, ONE-PIECE, BIAXIALLY STRETCHED SHAPED BODY OF SYNTHETIC RESIN AND METHOD FOR MAKING THE SAME

Abstract: PCT No. PCT/EP80/00125 Sec. 371 Date May 18, 1981 Sec. 102(e) Date May 18, 1981 PCT Filed Nov. 4, 1980 PCT Pub. No. WO81/01304 PCT Pub. Date May 14, 1981. What is disclosed is a rigid, one-piece, shaped body, made of a biaxially stretched synthetic resin in the form of a sheet at least 1 mm thick, the edge of which does not lie in a single plane, and the surface of which is smaller than a flat initial surface enclosed by the edge and preferably approximates the mathematically minimum surface enclosed by the edge, is suitable according to the invention as a lightweight building element having high resistance to buckling. The new shaped bodies are made by shaping a flat sheet of biaxially stretched synthetic resin at least 1 mm thick, while in the thermoelastic state, so that the edge of the sheet is brought into a configuration which does not lie in one plane, and the surface enclosed by the edge is allowed to shrink back partially while in the thermoelastic state, whereby a shrinkage of the edge of the sheet is prevented by clamping the edge, and the resulting shaped body is cooled below the softening temperature before the edge clamping is loosened.

Classifications:

International (IPC 8-9): B29C61/02 B29D25/00 E04B1/32 E04B7/10 E04D13/03 (Advanced/Invention);

B29C61/00 B29D25/00 E04B1/32 E04B7/10

E04D13/03 (Core/Invention)

International (IPC 1-7): B29C17/02 B29C17/04 B29C25/00

E04B7/10

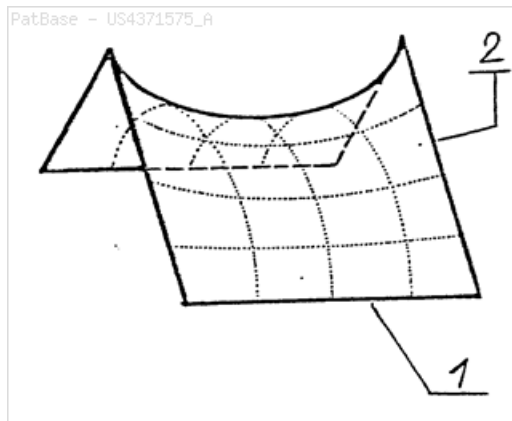
CPC: Y10S428/91 B29C61/02 B29D25/00 B29L2031/772 E04B1/32

E04B7/102 E04B2001/3217 E04B2001/3258 E04B2001/3264

E04D13/03 Y10T428/24628

European: B29C61/02 B29D25/00 E04B1/32 E04B7/10B E04D13/03 L29L31/772 P04B1/32H P04B1/32N P04B1/32N1

US: 264/230 264/342RE 264/544 428/174 428/220 428/81 428/910

**Family:**

Publication number	Publication date	Application number	Application date
DE3063537 D1	19830707	DE19803063537	19801104
DE7931201 U1	19800313	DE19790031201U	19791105
EP0039700 A1	19811118	EP19800902114	19801104
EP0039700 B1	19830525	EP19800902114	19801104
JP56501531 T2	19811022	JP19800502465T	19801104
US4371575 A	19830201	US19810264300	19810518
WO8101304 A1	19810514	WO1980EP00125	19801104

Priority:

DE19790031201U 19791105 DE19803063537 19801104 WO1980EP00125 19801104

Probable Assignee: ROHM GMBH

Assignee(s): (std): KERK K ; MUELLER D ; OLEIKO B ; ROEHM GMBH

Assignee(s): ROHM GMBH ; ROEHM GMBH 6100 DARMSTADT

Inventor(s): (std): KERK K ; KERK KLAUS ; MUELLER D ; MUELLER DIETER ; MULLER DIETER ; OLEIKO B ; OLEIKO BERND ; OLEIKO BERND J

Designated states: DE FR GB JP NL US

134) Family number: 3822777 (US4387491A)

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Title: BURIAL ENCLOSURE ARRANGEMENT AND METHOD

Abstract: A container, which may be a burial casket or a toxic waste container, is protectively sealed by enclosing it in an initially open-topped receptacle, which may be a burial vault or similar outer container or a grave, spacing the container from the bottom of the receptacle, partially filling the receptacle with a foamable plastic still in its liquid form, and, following completion of the foaming of such initial charge, supplying sufficient additional foamable plastic in one or more additional steps to completely cover and surround the container with the resulting plastic foam. In the preferred method, a film-like plastic sheet is placed over the open-topped receptacle after the final charge of liquid foamable plastic is applied, and held in place around the edges of the opening by a collar which permits the sheet to yield upwardly as the foam expands, thereby partially confining the expanding foam to assure full filling of all voids in the receptacle. Fine-grained perlite is preferably mixed with the liquid foamable plastic to improve its properties.

Classifications:

International (IPC 8-9): A61G17/00 E04H13/00 (Advanced/Invention);

A61G17/00 E04H13/00 (Core/Invention)

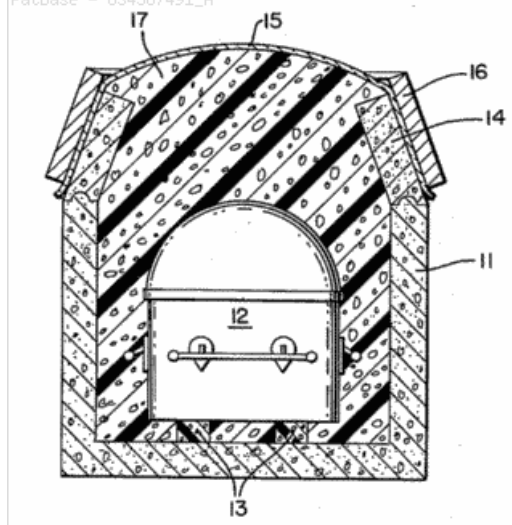
International (IPC 1-7): A61G17/00

CPC: E04H13/00 A61G17/00 A61G17/007

European: A61G17/00 E04H13/00

US: 27/35 52/140

PatBase - US4387491_A

**Family:**

Publication number	Publication date	Application number	Application date
US4387491 A	19830614	US19810288630	19810730

Priority:

US19800133345 19800324 US19810288630 19810730

Probable Assignee: LINDEN JAMES E VAN

Assignee(s): (std): LINDEN JAMES E ; LINDEN JAMES E VAN ; LINDEN KIRK S ; LINDEN KIRK S VAN ; SCHAAF CECIL F ;

SCHAAF CRAIG R

Assignee(s): VAN LINDEN JAMES E ; VAN LINDEN KIRK S

Inventor(s): (std): SCHAAF CECIL F ; SCHAAF CRAIG R ; VAN LINDEN JAMES E ; VAN LINDEN KIRK S

135) Family number: 23084785 (FR1310267A)

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Abstract: Source: FR1310267A [FR] (Claim 1) 1. RESUME L'invention porte sur les charpentes tubulaires spatiales. L'idée fondamentale de base concerne l'utilisation de semi-poutres triangulées en tubes (poutres à une membrure horizontale). La deuxième idée expose le système de connexion déduit de la forme et de la fonction de ces semi-poutres. La troisième particularité intéressée l'adaptation des concepts précédents à des plateaux structuraux plus généraux. La quatrième partie généralise encore davantage, en incluant 'certaines voutes cylindriques du type voisin. La 'cinquième caractéristique, intéresse une autre utilisation des semi-poutres, applicable aux coupoles 'polygonaux triangulées et aux voutes prismatiques du même genre conçues sur une trame analogue.

Machine translation: (Claim 1) 1. SUMMARY The invention relates to tubular space frames. The basic fundamental idea is the use of semi-truss tubes (horizontal beams has a chord). The second idea exposes the connection system deduced from the shape and function of these semi-beams. The third particularity interested in adapting the concepts precedants a more general structural trays. The fourth part generalized further, by including 'certain type cylindrical vaults nearby. The 'fifth feature, want another use of semi-beams, applicable to domes, vaults and triangulated polygonal prism of the same kind designed on a similar frame.

Classifications:

International (IPC 8-9): E04B1/19 (Advanced/Invention);

E04B1/19 (Core/Invention)

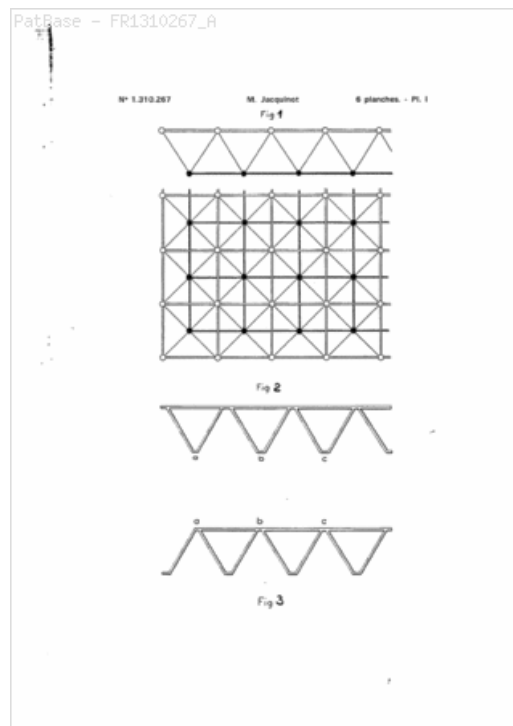
International (IPC 1-7): E04B1/19 E04B1/24 E04B7/08 E04C3/08

CPC: E04B1/19 E04B2001/1927 E04B2001/1951 E04B2001/1954

E04B2001/1975 E04B2001/1984 E04B2001/1993

European: E04B1/19 P04B1/19C1 P04B1/19C20 P04B1/19C21

P04B1/19E P04B1/19G2 P04B1/19K



Family:

Publication number	Publication date	Application number	Application date
FR1310267 A	19630306		00000000

136) Family number: 42935793 (US2010207288A)

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Title: METHOD FOR AUTOMATICALLY PRODUCING A CONGLOMERATE STRUCTURE AND APPARATUS THEREFOR

Abstract: A method and an apparatus for automatically making conglomerated structures (6). The method comprises a) modelling a building structure and a containing shell about the structure by a computer using a CAD software thus obtaining a file; b) extracting sections of modelled structure and of modelled containing shell, by means of horizontal planes spaced apart of a predetermined pitch, such that a plurality of section planes is generated, said planes being sorted from below towards above with respect to the model of the structure and of the model of the shell; c) depositing by a moving unit (3) on a ground a bottom-to-top plurality of layers of granular material (22) alternate to a binding material liquid sprayed on the layers at filled areas corresponding to filled portions of the of the structure and of the containing shell, according to a predetermined path; d) vertically raising the moving unit (3) according to a pitch between a deposited layer and the following layer; e) repeating the step of depositing granulating material and repeating the step of spraying the binding material on a granulated material at filled areas of the structure and of the shell as many times as the planar cross sections into which said structure and the containing shell have been divided, each of said times for a different and consecutive section plane until the last layer (17) is complete; f) demolishing the containing shell (5) and removing unbound granular material (7) accumulated in the shell (5), thus releasing a conglomerate structure (6) that reproduces accurately said modelled structure. The apparatus comprises a horizontal frame (1), a bridge (2) sliding on guide on the horizontal frame (1), a moving unit (3) sliding along the bridge (2) or integral to the bridge (29) and have a spraying head (20). The horizontal frame (1) is moved along uprights (4) by a step actuator. The apparatus comprises a plurality of "skirts" (10) that surround the containing shell (5) and are integral to the horizontal frame (1). Such skirts scrape the outer surface of the containing shell (5) collecting the granular material (21) deposited out of the shell (5). Such skirts (10) can comprise an brush-like edge (20) suitable for externally sweeping the containing shell (5).

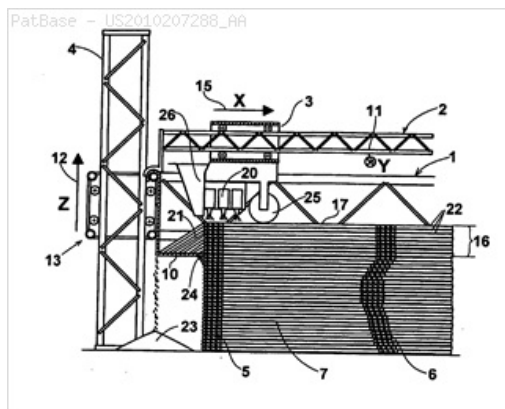
Classifications:

International (IPC 8-9): B28B1/00 B28B7/46 B29C67/00 B29C67/24

E04B1/16 E04B1/35 E04G11/22 G06F17/50 (Advanced/Invention);

B28B7/40 B29C67/00 B29C67/24 E04B1/16 E04G11/00

G06F17/50 (Core/Invention);
B28B B29C (Subclass/Invention)
International (IPC 1-7): B28B7/46 B29C67/24
CPC: B28B7/465 B28B1/001 B29C67/243 E04B1/161 E04B1/3505
B33Y10/00 B33Y70/00 B33Y80/00 B29C64/165
European: B28B1/00A B28B7/46B B29C67/00R6 B29C67/24C2
E04B1/16A E04B1/35A Y02T10/82
US: 264/113 264/241 264/255 264/308 264/309 264/313 264/317
264/33 264/33P 425/63 425/63S 52/742.1 52/742.13 703/1 703/1S



Family:

Publication number	Publication date	Application number	Application date
AU2008300316 AA	20090326	AU20080300316	20080917
CN101801624 A	20100811	CN200880107174	20080917
DE602008028731 D1	20140109	DE200860028731T	20080917
EA201000743 A1	20101029	EA20100000743	20080917
EP2203286 A2	20100707	EP20080807104	20080917
EP2203286 B1	20131113	EP20080807104	20080917
IN00769KN2010 A	20100521	IN2010KN00769	20100301
ITPI20070108 A1	20090318	IT2007PI00108	20070917
US2010207288 AA	20100819	US20080673900	20080917
US8337736 BB	20121225	US20080673900	20080917
WO09037550 A2	20090326	WO2008IB02425	20080917
WO09037550 A3	20090723	WO2008IB02425	20080917
ZA201001097 A	20101027	ZA20100001097	20100216

Priority:

IT2007PI00108 20070917 EP20080807104 20080917 WO2008IB02425 20080917

Probable Assignee: ENRICO DINI

Assignee(s): (std): DINI ENRICO ; ENRICO DINI

Inventor(s): (std): ENRICO DINI ; DINI ENRICO

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; CELESTINO MARCO; DENNISON SCHULTZ AND MACDONALD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

137) Family number: 718804 (GB1206400A)

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Title: IMPROVEMENTS RELATING TO TUBULAR STRUCTURES

Abstract: 1,206,400. Space frames; clamps. STEWARTS and LLOYDS Ltd. 21 Dec., 1967 [12 Dec., 1966], No. 55542/66. Heading E1K and E2B. '[Also in Division F2] A method of assembling joint between the ends of a number of tubular steel members lying substantially in a common plane and forming part of a space frame, the joint being made by means of a pair of clamping elements 8, 10 between which the ends of the tubular members are gripped, comprises the steps of connecting one or more of the tubular members, e.g. the tubular member 4, temporarily and independently to one of the clamping elements, viz element 8 as shown, each by an individual holding device 1 which does not impede the fitting of the second clamping element 10, bringing the ends of the remaining tubular elements into their correct positions in relation to the first clamping element 8 (as at 24, Fig. 3, not shown), and finally securing the second clamping element to the first, as by screws 15, to complete the joint. The method is used where a building structure in the form of a space frame is constructed by first constructing a number of sub-assemblies at ground level, some of the joints therefore being incomplete, and then connecting the various sub-assemblies to form the complete structure. Each holding device 1 consists of a saddle piece 2 which is recessed at 3 to accommodate the member 4 and has a projecting portion 7 which overlies the element 8, and a bridge piece 6, screws 5 being passed through apertures in the bridge piece 6 and tightened within threaded apertures in the saddle 2 to clamp the holding device on the member 4 and at the same time cause the element 8 to 'be gripped between the end of member 4 and the element 8. Since bridge piece 6 is well clear of the end portion of element 4 to be clamped between the elements 8, 10, it does not impede fitting of the element 10, following the assembly of the remainder of the tubular members. The holding device 1 is removed, as shown in Fig. 4, after completion of the joint by tightening of the screws 15. The clamping elements 8, 10 shown are as described in Specification 1,206,399 for receiving two, three or four tubular members arranged at right angles to one another in the same plane, the element 8 comprising lugs 16 for receiving two, three or four further tubular members 17 to provide diagonal cross connections between sets of tubular elements in two parallel planes (Fig. 6, not shown). A slot 18 is provided in the saddle portion 2 of each holding device to accommodate the lugs 16. In order that the ends of the tubular members be securely gripped by the clamping elements, they are provided with ribs 9 which mate with corresponding grooves in the clamping elements. Arrangements for the supporting of two sub-assemblies (30, 33 Figs. 5 and 6, not shown) while they are being connected together by the above method are also disclosed.

Classifications:

International (IPC 8-9): E04B1/19 E04B1/58 (Advanced/Invention);

E04B1/19 E04B1/58 (Core/Invention)

CPC: E04B1/19 E04B1/58 E04B2001/1927 E04B2001/1957

E04B2001/1966 E04B2001/1984 E04B2001/1993

European: E04B1/19 E04B1/58 P04B1/19C1 P04B1/19D

P04B1/19D3 P04B1/19G2 P04B1/19K

Publication number	Publication date	Application number	Application date
GB1206400 A	19700923	GB19660055542	19661212

GB19660055542 19661212

Inventor(s): HUBERT BERESFORD WALKER ; PERCIVAL JAMES PACKMAN

European: A61
US: 27/35 27/6

PatBase - US2261651_A

Nov. 4, 1941. B. E. LAMBERT
CONCRETE CASEY AND GRAVE VAULT
Filed March 24, 1939 2 Sheets-Sheet 1

The drawing illustrates a concrete casey and grave vault. Fig. 1 is a top view showing a rectangular structure with rounded corners, featuring a central arched opening and a smaller arched opening at the rear. Various components are labeled with numbers: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Fig. 2 is a cross-section of the vault, showing the internal structure and the placement of the casey. Fig. 3 is a cross-section of the vault, showing the internal structure and the placement of the casey. Fig. 4 is a cross-section of the vault, showing the internal structure and the placement of the casey. Fig. 5 is a cross-section of the vault, showing the internal structure and the placement of the casey. Fig. 6 is a cross-section of the vault, showing the internal structure and the placement of the casey. Fig. 7 is a cross-section of the vault, showing the internal structure and the placement of the casey. Fig. 8 is a cross-section of the vault, showing the internal structure and the placement of the casey.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Bureau of Lambert

H. M. Howell

Drawing

Publication number	Publication date	Application number	Application date
US2261651 A	19411104	US19390263976	19390324

US19390263976 19390324

Probable Assignee: LAMBERT BERNICE E
Assignee(s): (std): LAMBERT BERNICE E
Inventor(s): (std): LAMBERT BERNICE E

139) Family number: 4520814 (US4476657A)

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Title: PRECAST CONCRETE STRUCTURAL UNITS AND BURIAL VAULTS

Abstract: A precast concrete structural unit is provided including a concrete sub-unit and a plastic resinous sheet. The sheet is adhered to the sub-unit at the time of pouring the concrete, utilizing a polychloroprene contact adhesive. The structural unit may further include adhesive coated reinforcement. Among the concrete structural units which are provided is a burial vault including concrete wall portions and a plastic resinous liner. The liner is adhered to the wall portions, at the time of pouring the concrete, utilizing the polychloroprene contact adhesive. The vault may also include adhesive coated reinforcement. The polychloroprene contact adhesive is essentially a blended aqueous latex comprising hydrophilic chloroprene copolymer latex particles and emulsified or dispersed hydrocarbon resin tackifier particles.

Classifications:

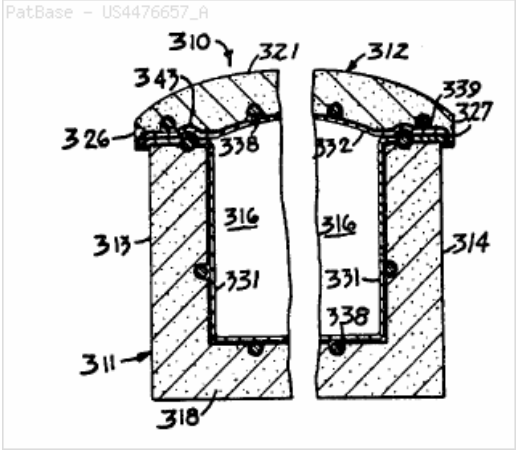
International (IPC 8-9): E04H13/00 (Advanced/Invention);
E04H13/00 (Core/Invention)

International (IPC 1-7): B32B13/00 E04H13/00

CPC: E04H13/00 Y10T428/254 Y10T428/31696 Y10T428/31917
Y10T428/31924 Y10T428/31938

European: E04H13/00

US: 264/135 264/256 428/327 428/446 428/462 428/517 428/519
428/523 428/703 52/135 52/139



Family:

Publication number	Publication date	Application number	Application date
US4476657 A	19841016	US19810266369	19810522

Priority:

US19810266369 19810522

Probable Assignee: FULLER H B

Assignee(s): (std): FULLER H B

Assignee(s): H B FULLER ; HB FULLER CO ; HB FULLER CO A CORP OF MN ; FOSTER PRODUCTS A MN CORP ;
FOSTER PRODUCTS CORP

Inventor(s): (std): GIESSEN MICHAEL J V ; JUBA BERNARD T

140) Family number: 1802815 (DE2923370A1)

© PatBase

Title: REINFORCED CONCRETE VAULT STRUCTURE - HAS SHELL ON PREFAB ARCHED PIECES PRESTRESSED IN BEND LINE DIRECTION

Abstract: A base, sidewalls, and a vault shell incorporating a series of curved reinforced-concrete prefabricated sections set close together, make up a vaulted structure, esp. for conduits dome containers, hangar-type buildings, or similar. The curved concrete sections are in the form of arched prefabricated pieces (10), which are prestressed in the direction of the bend line. The concrete sections carry a reinforced superimposed concrete shell (16). They are pref. centrally prestressed, and can have slack reinforcement with joint bars (20) distributed over their edges and extending into the shell, esp. in the form of triangular stirrup pieces.

Classifications:

International (IPC 8-9): E04B1/32 E04H6/44

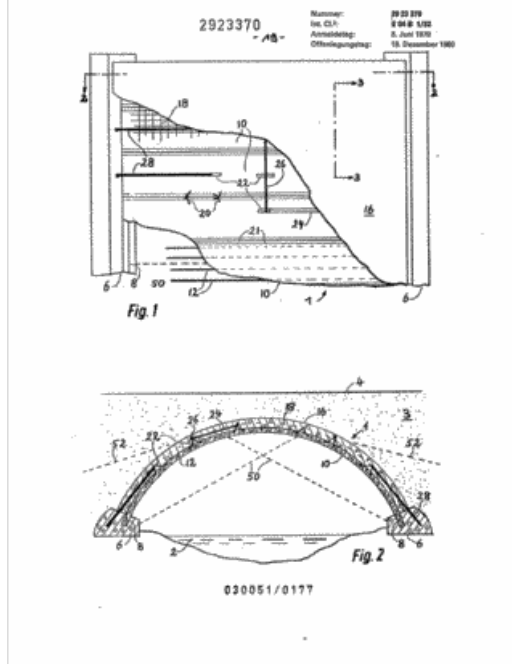
E21D9/00 (Advanced/Invention);

E04B1/32 E04H6/00 E21D9/00 (Core/Invention)

International (IPC 1-7): E01D7/02 E04B1/32 E04G21/12 E04H7/20

CPC: E04B1/3205 E04B2001/3217 E04B2001/3264 E04B2001/3276
E04H6/44 E21D9/005

European: E04B1/32B E04H6/44 E21D9/00D P04B1/32H
P04B1/32N1 P04B1/32P1

**Family:**

Publication number	Publication date	Application number	Application date
DE2923370 A1	19801218	DE19792923370	19790608

Priority:

DE19792923370 19790608

Probable Assignee:

KINKEL HORST DR ING

Assignee(s): (std):

KINKEL HORST DR ING

Inventor(s): (std):

KINKEL HORST DR ING

141) Family number: 4822818 (US5060426A)

© PatBase

Title: Building structure

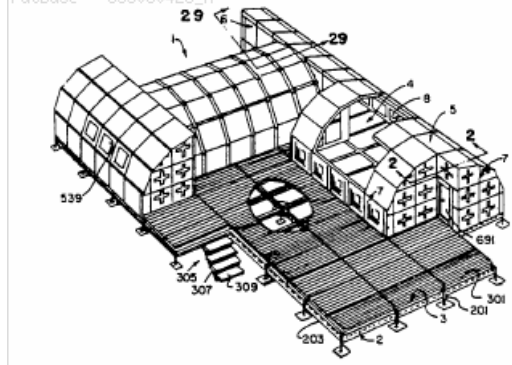
Abstract: An easily transported and erected building structure formed in part as a vault made of interlocking voussoirs in the form of identical insulated boxes. Permanent exterior joint connectors prestress the voussoirs for strength. Easily installed interior clips join the voussiers. A floor made of insulated boxes is supported on a quickly-assembled adjustable structural frame. End walls made of insulating boxes close the ends of the vault or vaults. External cladding and interior finishing panels, corresponding generally to the dimensions of the voussoirs, are easily installed and removed. Interior raceways are formed along the joinder lines of the insulated boxes. All of the parts of the structure are designed for erection of the structure in harsh environments, without handling small loose parts.

Classifications:**International (IPC 8-9):** E04B1/343 E04B1/344 (Advanced/Invention);

E04B1/343 E04B1/344 (Core/Invention)

International (IPC 1-7): E04B1/32**CPC:** E04B1/34321 E04B1/344**European:** E04B1/343C1 E04B1/344**US:** 52/126.1 52/584 52/587.1 52/86 52/89

PatBase - US5060426_A

**Family:**

Publication number	Publication date	Application number	Application date
US5060426 A	19911029	US19860853778	19860418

Priority:

US19860853778 19860418

Probable Assignee:

HYPERTAT CORP

Assignee(s): (std):

HYPERTAT CORP

Inventor(s): (std):

JANTZEN MICHAEL E

142) Family number: 18052819 (DE19815520A1)

© PatBase

Title: Prefabricated construction room space units such as garages

Abstract: The room space unit, and especially a prefabricated garage, is produced in a lost molding process where the spaced thin inner and outer shells (5.1,6.1) form the inner and outer surfaces of the molded walls (1.1) with the cast wall material between them and especially concrete. At least sections of the two shell structures are shaped to give a number of curved recessed zones (13) along their length each of the shell height with a curvature towards the opposite shell section.

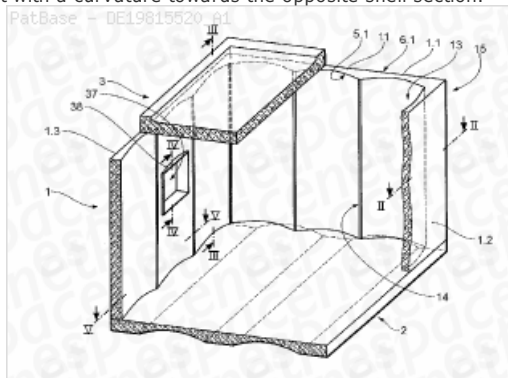
Classifications:

International (IPC 8-9): E04B1/16 E04H6/02 (Advanced/Invention); E04B1/16 E04H6/02 (Core/Invention)

International (IPC 1-7): E04B1/16 E04B1/348 E04B2/86

CPC: E04B1/161 E04H6/02

European: E04B1/16A E04H6/02



Family:

Publication number	Publication date	Application number	Application date
DE19815520 A1	19991007	DE19981015520	19980331

Priority:

DE19981015520 19980331

Probable Assignee: KESTING FERTIGGARAGEN UND HAUS

Assignee(s): (std): KESTING FERTIGGARAGEN U HAUS ; KESTING FERTIGGARAGEN UND HAUS

Assignee(s): KESTING FERTIGGARAGEN UND HAUS GMBH AND CO LUENEN ; KESTING FERTIGGARAGEN UND HAUS GMBH AND CO LUENEN KG

Inventor(s): (std): GABOR THOMAS

143) Family number: 42308829 (ES2304851B)

© PatBase

Title: PROCEDIMIENTO DE FABRICACION DE PLACAS DE REPRODUCCION MURAL Y PLACA OBTENIDA METHOD OF MAKING PLATES AND REPRODUCTION WALL PLATE OBTAINED (Machine translation)

Abstract: Source: ES2304851B [ES] Procedimiento de fabricacion de placas de reproduccion mural y placa obtenida. El procedimiento comprende los pasos de: obtencion de un molde de silicona, impregnacion general del interior del molde con pigmentos en distintas tonalidades, impregnacion particular de las zonas correspondientes a las juntas (14) para aumentar el contraste, volcado del molde para eliminar el pigmento sobrante, vertido de masa de escayola y pigmento en estado liquido o pastoso, colocacion de al menos una lamina (12 y/o 13) de tejido sobre la capa (11) de escayola formada, secado de la capa (11) de escayola en el molde, desmolden de la placa (1) formada, secado final y corte de la lamina (12 y/o 13) de tejido sobrante. La Placa (1) asi obtenida comprende una capa (11) anterior de escayola y pigmentas, con la cara anterior pigmentada de acorde al efecto buscado y una o dos laminas (12 y 13) de tejido posterior de soporte y flexibilidad.

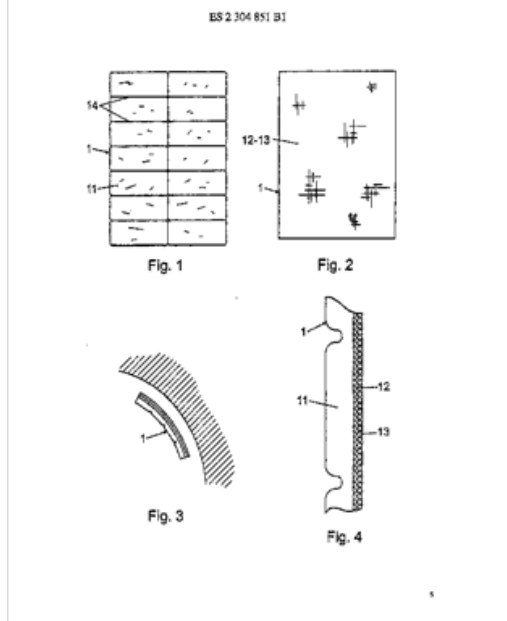
Machine translation: Procedure manufacture of plates and plate obtained mural reproduction. The method comprises the steps of: obtaining a silicone mold, impregnating the mold overall with pigments in different shades, including impregnation of the areas corresponding to the joints (14) to increase contrast, dump the mold to remove the pigment surplus, disposal of plaster and pigment mass in liquid or paste, placement of at least one sheet (12 and / or 13) on the layer of tissue (11) formed plaster, drying of the layer (11) of plaster the mold plate desmolden (1) formed, final drying and cutting the laminate (12 and / or 13) of excess fabric. Plate (1) thus obtained comprises a layer (11) above and pigmentas plaster, with the anterior pigmented according to the desired effect and one or two sheets (12 and 13) of tissue at the back of support and flexibility.

Classifications:

International (IPC 8-9): E04C2/26 (Advanced/Invention)

CPC: E04C2/26

European: E04C2/26

**Family:**

Publication number	Publication date	Application number	Application date
ES2304851 AA	20081016	ES20060001522	20060601
ES2304851 BA	20091102	ES20060001522	20060601

Priority:

ES20060001522 20060601

Probable Assignee:

COLOMER CONSTANSEU RAMON

Assignee(s): (std):

COLOMER CONSTANSEU RAMON

Assignee(s):

RAMON COLOMER CONSTANSEU

Inventor(s): (std):

COLOMER CONSTANSEU RAMON

Inventor(s):

RAMON COLOMER CONSTANSEU

144) Family number: 25458838 (CH153128A)

© PatBase

Title: TRAGWERK FUER DAECHER, BRUECKEN ETC. STRUCTURE FOR roofs, bridges ETC. (Machine translation)

Abstract: Source: CH153128A [DE] PATENTANSPRUCH: Tragwerk fuer Daecher, Bruecken etc. mit gawoelbeartig tragender, in der Crawoelberich- tung druckfester, jedoch biegunsischwacher Schale und mit durchlaufenden, den Ge- woelbeschub aufnehmenden Auflagern, ge kennzeichnet dadurch, dass eine Anzahl von Erzeugenden der tragenden Schalenflaeche durch ein System von Pfetten und biegun #,;s- festen Bindern in ihrer urspruenglichen Lage fixiert werden.

Machine translation: CLAIM: Tender for roofs, bridges etc. with gawoelbeartig bearing, achieve in Crawoelberich- flameproof, but biegunsischwacher shell and with continuous, the total woelbeschub receiving supports, terized by the fact that a number of generators of the bearing Schalenflaeche by a system of purlins and biegun #,; s solid binders are fixed supplied in its original location.

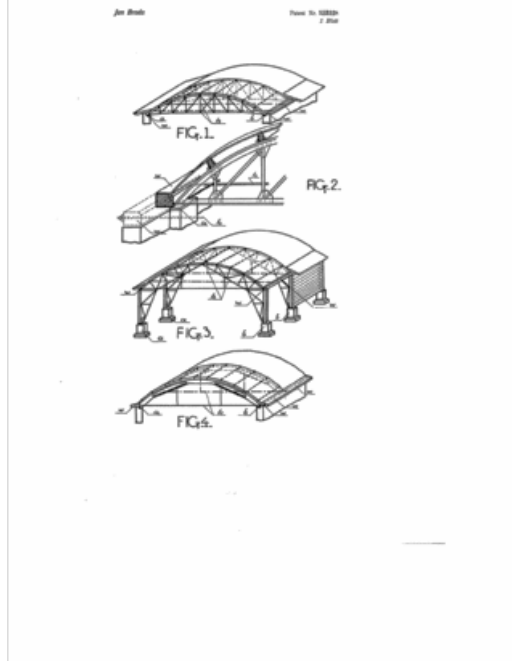
Classifications:

International (IPC 8-9): E04B7/08 (Advanced/Invention);
E04B7/08 (Core/Invention)

International (IPC 1-7): E04B7/08

CPC: E04B7/08

European: E04B7/08

**Family:**

Publication number	Publication date	Application number	Application date
CH153128 A	19320315		19301204

Priority:

19301204

Probable Assignee:

BRODA JAN

Assignee(s): (std):

BRODA JAN

Inventor(s): (std):

JAN BRODA

Inventor(s):

BRODA JAN

145) Family number: 3451842 (ZA9102330A)

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Title: COMPRESSED MATERIAL AND USES AND METHODS FOR THE USE THEREOF

Abstract: Resilient closed-cell cellular sheets, for example similar to air-bubble packaging material, are used as a mould void filler for casting concrete floors, as heave-relief means under buildings, roads and other structures, and in situations where geotextiles are of use. The cellular material may be formed into self-supporting panels (15) comprising superimposed cellular sheets (16) bonded together, and preferably provided with at least one outer skin (18). The panel (15) may be precompressed to increase its rigidity. Such panels may also be used as structural elements.

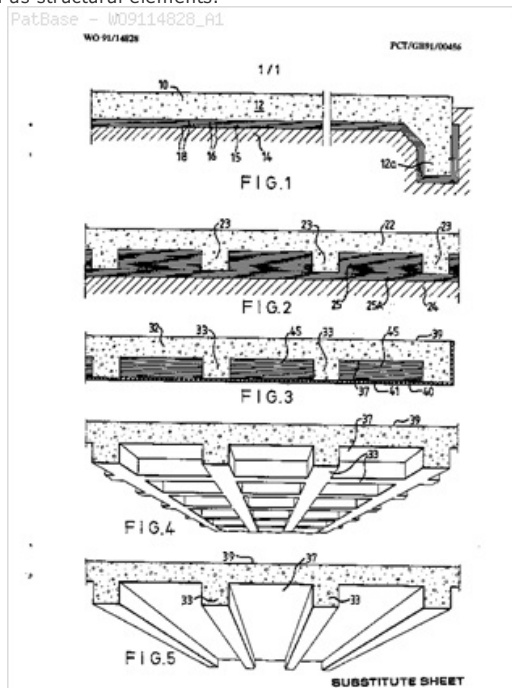
Classifications:

International (IPC 8-9): E01C3/06 E02D27/32 (Advanced/Invention); E01C3/00 E02D27/32 (Core/Invention)

International (IPC 1-7): B29C B32B E01C3/06 E02D27/32 E04B1/36 E04B5/00 E04B5/18 E04C1/38 E04G9/08

CPC: E04B5/21 E04B5/36 E02D27/32 E01C3/06

European: E01C3/06 E02D27/32 E04C1/38

**Family:**

Publication number	Publication date	Application number	Application date
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AU199175841 A1	19911021	AU19910075841	19910326
EP0596875 A1	19940518	EP19910907050	19910326
GB2269838 A1	19940223	GB19930019864	19910326
GB2269838 B2	19960124	GB19930019864	19910326
GB9006795 A0	19900523	GB19900006795	19900327
GB9319864 A0	19931201	GB19930019864	19910326
WO9114828 A1	19911003	WO1991GB00456	19910326
ZA9102330 A	19920129	ZA19910002330	19910327

Priority:

GB19900006795 19900327 WO1991GB00456 19910326

Probable Assignee: INITIATIVES DEV GROUP LTD

Assignee(s): (std): INITIATIVES DEV GROUP LIMITED ; INITIATIVES DEV GROUP LTD ; OBERMEISTER LOUIS ; MURRAY KEITH F ; MURRAY KEITH FENDALL ; LOUIS OBERMEISTER

Assignee(s): KEITH FENDALL MURRAY ; INITIATIVES DEVELOPMENT GROUP LIMITED ; INITIATIVES DEVELOPMENT GROUP LTD

Inventor(s): (std): KEITH FENDALL MURRAY ; LOUIS OBERMEISTER ; MURRAY KEITH FENDALL ; OBERMEISTER LOUIS

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CM DE DK ES FI FR GA GB GR HU IT JP KP KR LI LK LU MC MG ML MR MW NL NO PL RO SD SE SN SU TD TG US

146) Family number: 18949844 (US5511633A)

© PatBase

Title: Safety device for person and goods lift and turnstick for shifting or release of the liftage

Abstract: PCT No. PCT/NO93/00060 Sec. 371 Date Sep. 23, 1994 Sec. 102(e) Date Sep. 23, 1994 PCT Filed Apr. 7, 1993 PCT Pub. No. WO93/21097 PCT Pub. Date Oct. 28, 1993. The invention relates to a safety device for elevators, where an elevator turning wheel is connected to an elevator drive system comprised of an electric motor. The turning wheel is also coupled to a turn handle to move the elevator in the event of a power outage. The handle is also disposed in a holder containing a switch for connecting or disconnecting the supply of electric current to the elevator drive system.

Classifications:

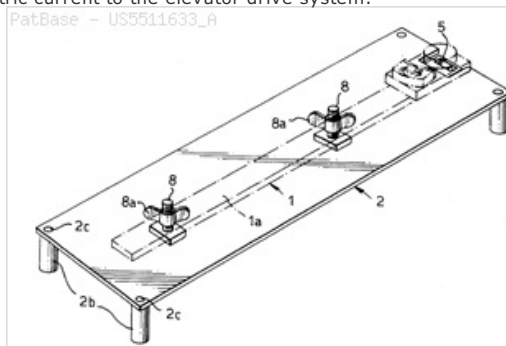
International (IPC 8-9): B66B5/00 B66B5/02 E02D29/045
E04G11/04 (Advanced/Invention);
B66B5/00 (Advanced/Non-invention);
B66B5/00 B66B5/02 E02D29/045 E04G11/00 (Core/Invention)

International (IPC 1-7): B66B11/08 B66B13/24 B66B5/00
E04G11/04 H01H27/00

CPC: E04G11/045 B66B5/027 E04G11/04 E02D29/045

European: B66B5/02B E02D29/045 E04G11/04

US: 187/263 187/277



Family:

Publication number	Publication date	Application number	Application date
AT186707 E	19991215	AT19930908181T	19930407
AU199339095 A1	19931118	AU19930039095	19930407
DE0666827 T1	19960118	DE19930908181T	19930407
DE69327061 D1	19991223	DE19936027061	19930407
DE69327061 T2	20000420	DE19936027061T	19930407
DE9315603 U1	19940324	DE19930015603U	19930407
EP0666827 A1	19950816	EP19930908181	19930407
EP0666827 B1	19991117	EP19930908181	19930407
JP7506078 T2	19950706	JP19930518203T	19930407
NO176563 B	19950116	NO19920001426	19920410
NO176563 C	19950426	NO19920001426	19920410
NO921426 A	19931011	NO19920001426	19920410
NO921426 A0	19920410	NO19920001426	19920410
NO921426 L	19931011	NO19920001426	19920410
US5511633 A	19960430	US19940307699	19940923
WO9321097 A1	19931028	WO1993NO00060	19930407
WO9416173 A1	19940721	WO1993NO00006	19930107

Priority:

NO19920001426 19920410 WO1993NO00006 19930107 WO1993NO00060 19930407

Probable Assignee: OLE A THRANA

Assignee(s): (std): AKER STEIN ; BOHN ARNE ; FOSSUM KNUT ; THRANA OLE A ; OLE A THRANA

Assignee(s): AKER ; THRANA OLE A SANDVIKA NO

Inventor(s): (std): AKER STEIN ; BOHN ARNE ; FOSSUM KNUT ; THRANA OLE A

Inventor(s): STEIN AKER ; AKER STEIN N 9650 OSLO NO

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP LI LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US VN

147) Family number: 58741848 (US8984841B)

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Title: LOW COST ROOFING TECHNIQUES

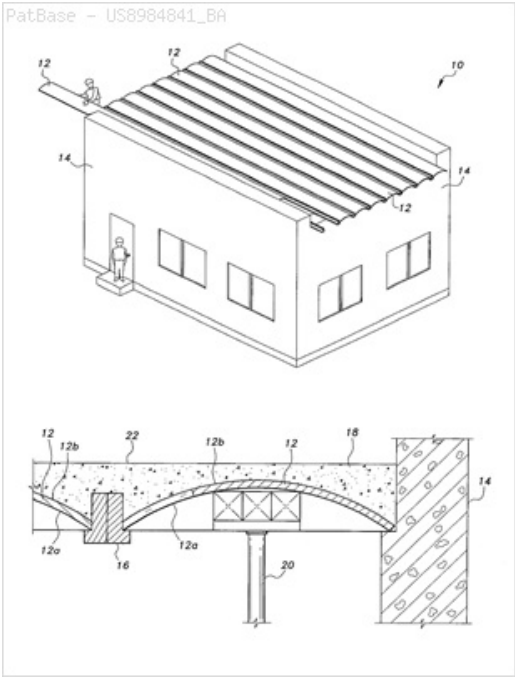
Abstract: The low cost roofing techniques provide techniques for construction of low-cost roofing. The techniques reduce the proportion of cement by employing substitute (low-cost) materials that may be readily available to mix with the cement. These substitute materials include, but are not limited to, suitable agricultural wastes, such as rice husk ash, crushed used brick rubble, and pozzolana. The techniques involve forming a plurality of supports spanning the open space between the walls of the structure and mounting a plurality of dome-shaped sheet metal elements on the supports, forming a series of ceiling vaults. The concave surface of the dome-shaped elements forms the ceiling. The convex or outer surface of the dome-shaped elements forms the inner layer of the roof. The cement mixture is deposited on the convex or outer surfaces of the dome-shaped elements to form a second layer for the roof.

Classifications:

International (IPC 8-9): E04B7/00 E04G21/00 (Advanced/Invention)

CPC: E04B7/00 E04B5/23 E04B7/08

US: 52/745.06



Family:

Publication number	Publication date	Application number	Application date
US8984841 BA	20150324	US20140198133	20140305

Priority:

US20140198133 20140305

Probable Assignee: UMM AL QURA UNIV
Assignee(s): (std): UMM AL QURA UNIV ; UNIV UMM AL QURA
Inventor(s): (std): NABEEL KHALED
Agent(s): RICHARD C

148) Family number: 227849 (DE1434012A1) © PatBase

Title: BAUKONSTRUKTION,INSBESONDERE FUER INDUSTRIELLE DACHDECKEN Construct, ESPECIALLY FOR INDUSTRIAL ROOF CEILING (Machine translation)

Abstract: Source: DE1434012A1 [DE] [Source: Claim 1] 1. EMI 0020.0001 A ff 1434012 zeiahnetv k#C 9119 laahG 0a32 21at, #en aw#Ovioist2 von. Ul#U, jede einzelne atia einunz Bodontail auch fuer anderss von hihier -et odex# atio Hohlkoerperz und vor.r#.agurteiriei iait ganz oder vor Eagartigtan Teilen odov ama jcdaT beliaebikenn anderan- Avt eines Boeans booteh4j wie boiapie #-luweise die vorlaeufige Ar 0a32 enigzil-tig2 DewegnIgen aufwcioueap d5L3- auf vorggfertigte) Teile drueolr- and n2abar die im allgeluoiniei mit auf der B2-Q #tt ueberboton versahon n'-n.dp worin sich Be bofindeng, in einer einzigen Schicht u-rfl vorzussowaise vat,.rU.g gegenIhw# dzn Rippen des Bodens oder in- zwoi mtoreinanee-,j# o2nkrachten oder in an -derer Waioo auggeriebtetor- 9, #chich-io'h oder gegebenenfalls auts Bewehrungonz, die mit an 0.ers gerichteten Bewehruiigen in den angeordnet nindy oder in jeder beliebigen andr.27an;.rue Lmd Weiua' aengaordnet und In aer Lage sind dem Uebeybeton die Bah;ibkraefte der Membrane zuzuordnen"und die ait der darauffolgenden 21atte durch an Ort =td Stelle ge goenene?agen verbunden ist, die in der Lage eindeine nor-. male ax-Aale Beanspruchung anzunehmer), und dass diese bewahrt ein and und die Bewehrungen dea Bodens erfassen und gegebenen falle die Zinen den Ueberbetong tragen# die den raeumliohen Schab aufnehmenss EMI 0021.0001

Machine translation: [Source: Claim 1] . 1 EMI 0020.0001 A ff 1434012 zeiahnetv k # C 9119 laahG 0a32 21AT, # s # aw Ovioist2 of. Ul # U, each einzelne atia einunz Bodontail also for other ss of hihier -et odex # tio Hohlkoerperz and vor.r #.agurteiriei IAIT all or before Eagartigtan parts odov ama jcdaT beliaebikenn anderan- Avt a Boeans booteh4j as boiapie # -luweise the provisional Ar 0a32 enigzil TIG2 DewegnIgen aufwcioueap d5L3- on vorggfertigte) parts drueolr- and n2abar the in allgeluoiniei with the B2-Q # tt ueberboton versahon n'-wherein n.dp to be bofindeng, in a single layer u-rfl vorzussowaise vat,.rU.g gegenIhw # dzn ridges of soil or domestic zwoi mtoreinanee-, j # o2nkrachten or at -derer Waioo auggeriebtetor- 9, # chich-io'h or optionally auts Bewehrungonz that with at 0.ers directed Bewehruiigen in the arranged Nindy or in any andr.27an; 'aengaordnet.rue Lmd Weiua and in aer able to Uebeybeton are the Bah; ibkraefte the membrane associate "and the ait subsequent 21atte is verbunden by ge in place = td point goenene? agen that eindeine normally able. male ax-eels stress anzunehmer), and that this preserves a and grasp the reinforcements dea soil and given the fall magazines give the Ueberbetong wear # the resume raeumliohen Schab ss EMI 0021.0001

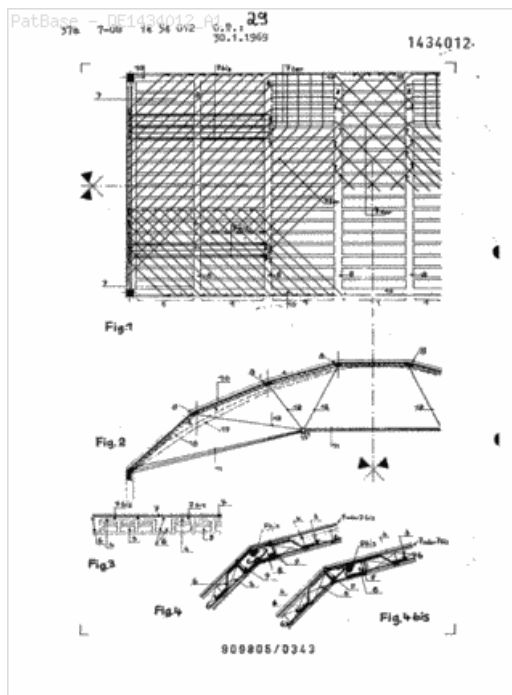
Classifications:

International (IPC 8-9): E04B7/08 (Advanced/Invention); E04B7/08 (Core/Invention)

International (IPC 1-7): E04B7/08

CPC: E04B7/08 E04B7/12

European: E04B7/08 E04B7/12



Family:

Publication number	Publication date	Application number	Application date
DE1434012 A1	19690130	DE19601434012	19600702

Priority:

IT19590011006 19590702 IT19600009916 19600604

Probable Assignee:

RAINERI GIUSEPPE

Assignee(s): (std):

RAINERI GIUSEPPE

Inventor(s): (std):

RAINERI GIUSEPPE

149) Family number: 32176883 (ES2237989B)

© PatBase

Title: SUELO DE BLOQUES DE VIDRIO AUTOPORTANTE SIN ARMADURAS INTERIORES

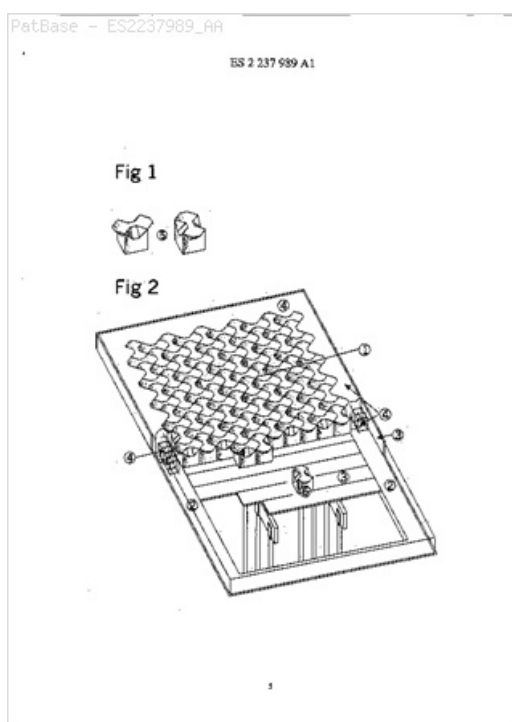
Abstract: Source: ES2237989B [ES] Suelo de bloques de vidrio autoportante sin armaduras interiores. Suelo de bloques de vidrio autoportante (1) sin armaduras interiores. Se trata de una boveda plana de bloques de vidrio (5) que encajan entre si y pueden tener forma identica entre si, combinados con un zuncho (4) perimetral. Usaran algun material de junta entre ellos y apoyaran sobre dicho zuncho (4) que absorba los empujes horizontales y sirva ademas de apoyo (2). Se buscan los efectos decorativos y la ausencia de armadura entre bloques.

Classifications:

International (IPC 8-9): E04B5/46 (Advanced/Invention);

E04B5/46 (Core/Invention)

International (IPC 1-7): E04B5/46



Family:

Publication number	Publication date	Application number	Application date
ES2237989 AA	20050801	ES20030001144	20030512
ES2237989 BA	20061201	ES20030001144	20030512

Priority:

ES20030001144 20030512

Probable Assignee:

UNIV SEVILLA

Assignee(s): (std):

UNIV SEVILLA

Assignee(s):

UNIVERSIDAD DE SEVILLA

Inventor(s): (std):

ARIZA LOPEZ INIGO

150) Family number: 21115897 (FR1533735A)

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Title: ELEMENT DE CONSTRUCTION BUILDING ELEMENT (Machine translation)

Abstract: Source: FR1533735A [FR] (Claim 1) 1. Il comprend: une dalle de beton comportant sur - sa longueur des tirants de renforcement precontraints; des moyens realisant un ensemble cellulaire sur cette dalle inferieure et comprenant une formation intermediaire qui delimite des chambres en forme de dome conformees de maniere a fournir un reseau de vides conformees de maniere a circuler dans tous les sens; une couche de beton recouvrant cette formation et ayant des colonnes separees qui vont jusqu'a la dalle; et des elements de renfort repartis le long de cette dalle et comportant des parties qui y sont noyees, des parties intermediaires passant dans lesdites colonnes et des parties noyees dans la couche de beton de recouvrement;

Machine translation: (Claim 1) 1. It includes: a concrete slab having on - the length of prestressed reinforcement rods, means producing a whole cell on the lower slab and including an intermediate training rooms which delimits shaped dome shaped to provide a network of voids shaped so as to move in any direction, a layer of concrete covering the training and having separated columns that go up the slab and reinforcing elements distributed along the slab and having portions embedded therein, intermediate portions passing through said columns and parts embedded in the layer of concrete cover;

Classifications:

International (IPC 8-9): E04B5/17 E04B5/38 E04B5/48

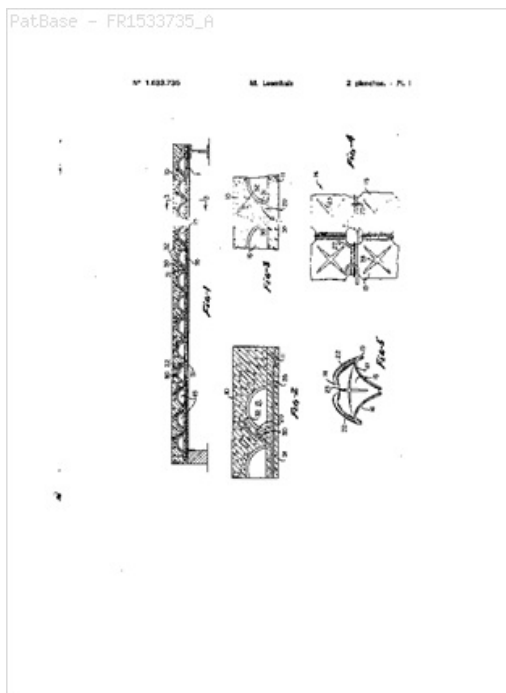
E04C2/00 (Advanced/Invention);

E04B5/17 E04B5/32 E04B5/48 E04C2/00 (Core/Invention)

International (IPC 1-7): E04B5/38 E04C2/00

CPC: E04B5/38 E04B5/48

European: E04B5/38 E04B5/48 E04C2/50



Family:

Publication number	Publication date	Application number	Application date
FR1533735 A	19680719	FR19670117072	19670807

Priority:

FR19670117072 19670807

Inventor(s): (std):

LEEMHUIS JOHN CORNELIUS

151) Family number: 32171897 (WO05074741A1)

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Title: SELF-SUPPORTING DOMED CONSTRUCTION

Abstract: A conventional domed construction with centrally-collected, radially-flexible ribs and a preset spring tension device on the rib ends, has the embodiment of a pop-up construction, by means of which the above is self-erecting from the flat form under tension into the relaxed domed form. Differing degrees of arching, or open forms can, however, not be achieved. By contrast, according to the invention, in a centrally-supported domed construction (GK), the tensioning device (SE), between the flexible ribs (BS) comprises connection elements (VE), for example, cable elements, which can be continuously and reversibly adjusted between a maximum length and a minimum length. The azimuthal separation of the rib ends can thus be arbitrarily adjusted such that any degree of arching of the domed construction (GK), between a minimal arching angle (alphaMIN) and a maximum arching angle (alphaMAX), can be achieved. The domed construction (GK) which may be provided with a segmented covering can thus be moved from an open to a closed condition. An upward-facing dome is also possible. The complete or semicircular domed construction (GK) in various dimensions is suitable for use as exposition

constructions, or as sheltering devices.

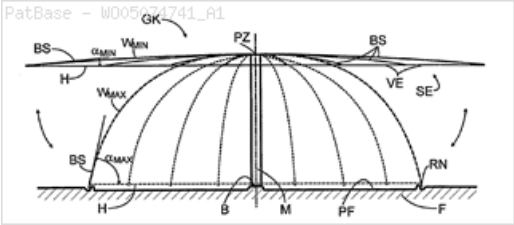
Classifications:

International (IPC 8-9): A45B19/02 A45B23/00 A45B25/16 E04B1/32 E04H15/20 E04H15/28 E04H15/40 E04H15/58 (Advanced/Invention); E04B1/35 (Advanced/Non-invention); A45B19/00 A45B23/00 A45B25/00 E04B1/32 E04H15/00 E04H15/20 E04H15/32 E04H15/34 (Core/Invention); E04B1/35 (Core/Non-invention)

International (IPC 1-7): A45B19/02 A45B25/00 E04B1/32 E04H15/28 E04H15/40 E04H15/44

CPC: A45B25/16 A45B2019/001 A45B2023/0012 A45B2200/1027 E04B1/3205 E04B1/3211 E04B2001/3583 E04H15/20 E04H15/28 E04H15/40 E04H15/58

European: A45B25/16 E04B1/32B E04B1/32C E04H15/20 E04H15/28 E04H15/40 E04H15/58 K45B19/00F K45B200/10B4 K45B23/00B P04B1/35T



Family:

Publication number	Publication date	Application number	Application date
DE102004007249 B3	20050922	DE200410007249	20040210
WO05074741 A1	20050818	WO2005DE00245	20050209

Priority:

DE200410007249 20040210

Probable Assignee: HEUN GISELA

Assignee(s): (std): HEUN GISELA ; LANG OLIVER ; REIMANN WALTER C

Assignee(s): HEUN GISELA LANG OLIVER REIMANN WALTER C

Inventor(s): (std): LANG OLIVER ; REIMANN WALTER ; REIMANN WALTER C

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

152) Family number: 21968898 (FR1465570A) © PatBase

Title: PANNEAU D'ARMATURE CREUX PREFABRIQUE, A PAROIS COFFRANTES MINCES, ARMEES ET ENTRETOISEES, POUR LA REALISATION D'ELEMENTS DE CONSTRUCTION REINFORCING HOLLOW PREFABRICATED PANEL, formwork THIN WALLS, AND ARMED braced FOR THE PRODUCTION OF BUILDING COMPONENTS (Machine translation)

Abstract: Source: FR1465570A [FR] (Claim 1) 1. Le panneau comporte une armature metallique constituee par au moins une plaque mediane de treillis soudee ondulee le long de ses fils porteurs et reliee au niveau des sommets des ondulations desdits fils porteurs a deux plaques laterales planes de treillis formant les armatures internes individuelles de deux parois minces coffrantes dont le maintien parallelement l'une a l'autre et le renforcement transversal sont assures par les portions pliees des fils porteurs de la plaque mediane, lesquelles constituent egalement des entretoises de triangulation et l'armature interne d'un remplissage prevu pour occuper au moins en partie l'intervalle delimite entre les parois laterales coffrantes;

Machine translation: (Claim 1) 1. The panel comprises a metal reinforcement consisting of at least a middle plate of welded steel mesh corrugated along its son holders and connected at the vertices of the corrugations of said two holders son planar lattice side plates forming the plates of individual internal two thin walls formwork whose continued parallel to one another and transverse reinforcement are provided by the bent portions of the plate carriers son median, which are also spacers triangulation and the internal frame to fill planned to occupy the least part of the interval defined between the formwork sidewalls;

Classifications:

International (IPC 8-9): E04B1/16 E04C2/04

E04C2/34 (Advanced/Invention);

E04B2/86 (Advanced/Non-invention);

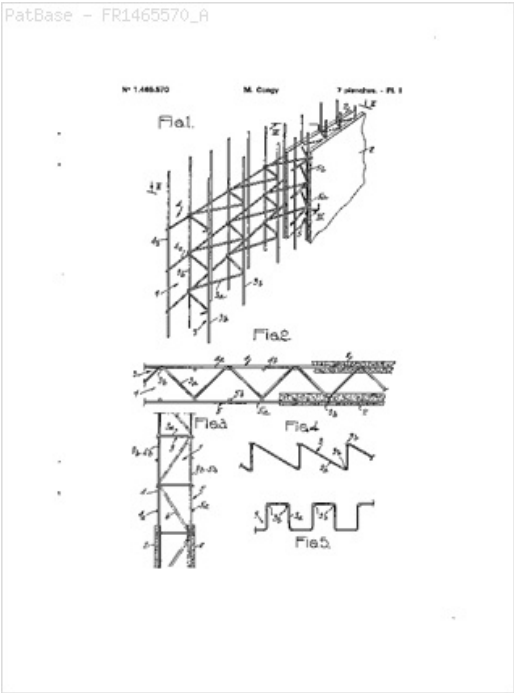
E04B1/16 E04C2/04 E04C2/34 (Core/Invention);

E04B2/86 (Core/Non-invention)

International (IPC 1-7): E04B2/86 E04C2/34 E04C5/04

CPC: E04B1/161 E04B2/8617 E04C2/044 E04C2/34

European: E04B1/16A E04C2/04D E04C2/34 P04B2/86E1



Family:

Publication number	Publication date	Application number	Application date
FR1465570 A	19670113	FR19650040261	19651130

Priority:

FR19650040261 19651130

Inventor(s): (std):

CONGY MARCEL

153) Family number: 32431898 (WO05111343A1)

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Title: DEPLOYABLE STRUCTURE

Abstract: A deployable structure (100) comprising a plurality of beam members pairs (102), the two beam members (104a, 104b) of each pair of beam members are pivotally joined (106) to each other, a plurality of pairs of hinge elements comprising first (110) and second (112) hinge elements, one pair of beam members is connected to an adjacent pair of beam elements via one pair of hinge elements, first and second cable (114, 116) elements connecting the first and second hinge elements respectively of adjacent pairs of hinge elements.

Classifications:

International (IPC 8-9): E04B1/19 E04C3/00 E04H15/50

E04H3/28 (Advanced/Invention);

E04B1/19 E04C3/00 E04H15/34 E04H3/10 (Core/Invention)

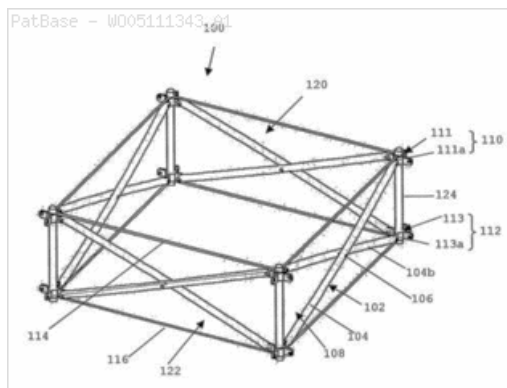
International (IPC 1-7): E04H3/28

CPC: E04B1/19 E04B2001/1918 E04B2001/1927 E04B2001/1984

E04B2001/1996 E04C3/005 E04H15/50

European: E04B1/19 E04C3/00B E04H15/50 P04B1/19B4

P04B1/19C1 P04B1/19G2 P04B1/19T



Family:

Publication number	Publication date	Application number	Application date
WO05111343 A1	20051124	WO2005SG00149	20050513

Priority:

US20040570652P 20040513

Probable Assignee: UNIV SINGAPORE

Assignee(s): (std): KRISHNAPILLAI ANANDASIVAM ; LIEW JAT YUEN RICHARD ; UNIV SINGAPORE

Assignee(s): NATIONAL UNIV OF SINGAPORE ; NATIONAL UNIV SINGAPORE ; NATIONAL UNIVERSITY OF SINGAPORE

Inventor(s): (std): KRISHNAPILLAI ANANDASIVAM ; LIEW JAT YUEN RICHARD

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

154) Family number: 61805900 (MX2015005751A)

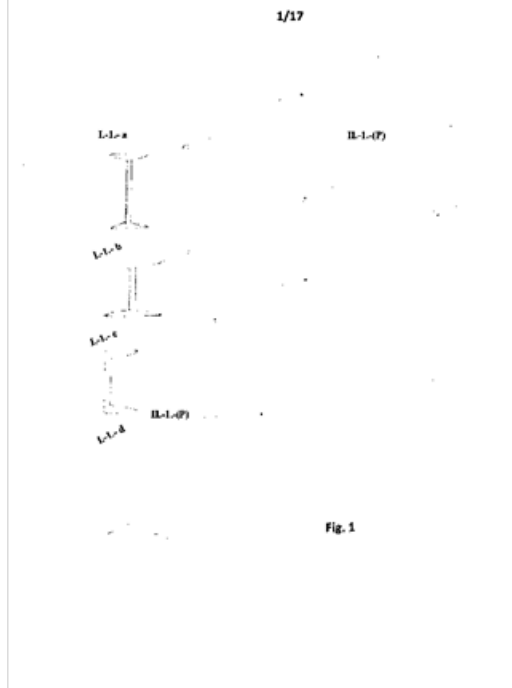
© PatBase

Title: REUSABLE FORMWORK SYSTEM.

Abstract: THE PRESENT INVENTION REFERS TO A REUSABLE FORMWORK SYSTEM AND ITS CONSTRUCTION METHOD, WHERE THE SYSTEM COMPRISES AT LEAST TWO JOISTS UNIFORMLY ARRANGED LENGTHWISE THE SAME, A PLURALITY OF TRANSVERSAL PERFORATIONS; A FLOOR ARRANGED BETWEEN THE TWO JOISTS, SAID FLOOR HAVING AN UPPER AND A LOWER SURFACE, WHERE THE UPPER SURFACE RECEIVES THE CONCRETE; A SUPPORT PROFILE FORMING A HOLLOW INNER PORTION, WHICH SUPPORTS THE FLOOR BY BRINGING THE SAME INTO CLOSE CONTACT WITH THE LOWER SURFACE OF THE SAME; A SLIDING LOCK DETACHABLY COUPLED AT THE INNER PORTION OF THE HOLLOW SUPPORT PROFILE, IN SUCH A MANNER THAT IT IS CROSSED THROUGH THE TRANSVERSAL PERFORATIONS OF THE JOISTS FOR MAINTAINING THE FLOOR FIXED AND LOCKED TO RECEIVE THE SLAB CONCRETE.

Classifications:

International (IPC 8-9): E04B1/00 (Core/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
MX2015005751 A1	20151002	MX20150005751	20150507

Priority:

MX20150005751 20150507

Probable Assignee:

ARCINIEGA JUAN JOSE DIAZ

Assignee(s): (std):

ARCINIEGA JUAN JOSE DIAZ

Assignee(s):

JUAN JOSE DIAZ ARCINIEGA

Inventor(s): (std):

ARCINIEGA JUAN JOSE DIAZ

Inventor(s):

JUAN JOSE DIAZ ARCINIEGA

155) Family number: 32712904 (US2006053726A)

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Title: CONNECTION NODE FOR A UNIVERSAL TRUSS JOINT AND DOUBLE LAYER GRID

Abstract: A connection node for a double layer grid or truss system has at least one diagonal flange receiving a pair of diagonal framing members having surfaces that lie in a single diagonal plane parallel to the flange(s). Use of co-planar diagonal members that can be at various diagonal angles or vertical, simplifies node connections and permits variations in bay spacing to produce interesting architectural effects and to provide greater member density where structural loads are greater.

Classifications:

International (IPC 8-9): E04B1/18 E04B1/19 E04B1/32 E04B1/38 E04B1/58 E04B7/08 E04C3/02 E04C3/04 E04H12/00 F24J2/12 F24J2/52 F24J2/54 H01Q1/12 H01Q15/18

H01Q19/12 (Advanced/Invention);

E04B1/18 E04B1/19 E04B1/32 E04B1/38 E04B7/08 E04C3/02

E04H12/00 F24J2/00 H01Q1/12 H01Q19/10 (Core/Invention);

E04B E04H (Subclass/Invention)

International (IPC 1-7): E04B7/08 E04H12/00

CPC: E04H12/00 E04B1/19 E04B1/1903 E04B2001/1933

E04B2001/1936 E04B2001/1975 E04B2001/1984 E04B2001/199

E04C2003/0495 H01Q15/18 Y02E10/47 F24S25/00 F24S25/13

European: E04B1/19 F24J2/52 H01Q15/18 P04B1/19 P04B1/19B

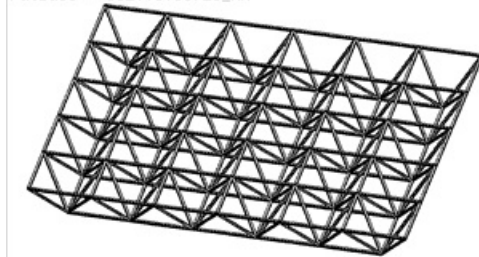
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P04C3/04T2 R24J2/52A8C Y02E10/47

US: 343/880 343/880P 52/633 52/633P 52/638 52/643 52/643S

52/648.1 52/653.2 52/653.200P 52/694 52/694P 52/747.1 52/81.3

52/81.300S

**Family:**

Publication number	Publication date	Application number	Application date
AT448369 E	20091115	AT20070252968T	20070727
AU2007300713 AA	20080403	AU20070300713	20070308
AU2007300713 BB	20110616	AU20070300713	20070308
AU2011213839 AA	20110915	AU20110213839	20110823
AU2011213839 BB	20120308	AU20110213839	20110823
BRPI0718441 A2	20130115	BR2007PI18441	20070308
CA2664192 AA	20090323	CA20072664192	20070308
CA2664192 C	20140708	CA20072664192	20070308
CN101529027 A	20090909	CN200780039151	20070308
CN101529027 B	20130130	CN200780039151	20070308

CN102995757 A	20130327	CN201210543975	20070308
CN102995757 B	20150729	CN201210543975	20070308
DE602007003164 D1	20140220	DE200760003164T	20070727
DE602007003164 D1	20091224	DE200760003164T	20070727
DE602007003164 D1	20091224	DE200760003164T	20070727
EG25325 A	20111214	EG20090030360	20090318
EP1903155 A1	20080326	EP20070252968	20070727
EP1903155 B1	20121205	EP20070252968	20070727
EP2123834 A1	20091125	EP20090169171	20070727
EP2123834 B1	20180228	EP20090169171	20070727
EP2128352 A1	20091202	EP20090169139	20070727
EP2154301 A2	20100217	EP20090175334	20070727
EP2154301 A3	20100505	EP20090175334	20070727
EP2357290 A2	20110817	EP20110161570	20070727
EP2357290 A3	20120404	EP20110161570	20070727
ES2402268 T3	20130430	ES20070252968T	20070727
IL197541 A0	20091224	IL20090197541	20090311
IL197541 A1	20120229	IL20070197541	20070308
IL217230 A0	20120229	IL20110217230	20111227
IL217230 A1	20130930	IL20070217230	20070308
IL217231 A0	20120131	IL20110217231	20111227
IL217231 A1	20130228	IL20070217231	20070308
IN01617DN2009 A	20090515	IN2009DN01617	20090312
IN201818001462 A	20180413	IN201818001462	20180112
IN293570 B	20180309	IN2009DN01617	20090312
MA30785 B1	20091001	MA20090031774	20090410
MX2009003087 A1	20090528	MX20090003087	20070308
US2006053726 AA	20060316	US20040932173	20040831
US2007011983 AA	20070118	US20060525721	20060922
US2008072516 AA	20080327	US20070978859	20071029
US2008127595 AA	20080605	US20070980217	20071029
US2008204352 AA	20080828	US20070980220	20071029
US2013333320 AA	20131219	US20130860965	20130411
US7530201 BB	20090512	US20040932173	20040831
US7578109 BB	20090825	US20060525721	20060922
US7578762 BB	20090915	US20070980220	20071029
WO08039233 A2	20080403	WO2007US05761	20070308
WO08039233 A3	20081211	WO2007US05761	20070308
ZA200901603 A	20100428	ZA20090001603	20090309

Priority:

US20040932173	20040831	US20060525721	20060922	AU20070300713	20070308
CN200780039151	20070308	WO2007US05761	20070308	EP20070252968	20070727
EP20090175334	20070727	US20070978859	20071029	US20070980217	20071029
US20070980220	20071029	IN2009DN01617	20090312	AU20110213839	20110823
US20130860965	20130411				

Probable Assignee: GOSSAMER SPACE FRAMES

Assignee(s): (std): GOSSAMER SPACE ; GOSSAMER SPACE FRAMES ; REYNOLDS GLENN A ; HACKBARTH DEAN R ; CURTIS GARY N ; GASSAMER SPACE FRAMES

Assignee(s): GOSAMER SPACE FRAMES ; GOSSAMER SPAE FRAMES ; GOSSAMER SPACE FRAMESBERTH D54PIER DLONG BEACHCA90802US ; GOSSAMER SPACE FRAMES LONG BEACH

Inventor(s): (std): REYNOLDS GLENN A ; HACKBARTH DEAN R ; CURTIS GARY N ; CURTIS GRAY N ; GARY N CURTIS ; GLENN A REYNOLDS ; DEAN R HACKBARTH ; REYNOLDS GLENN ; CURTIS GARY ; HACKBARTH DEAN

Inventor(s): REYNOLDS GLENN AUS ; CURTIS GARY NUS ; HACKBARTH DEAN RUS

Agent(s): FB RICE PTY LTD; FB RICE; UREN JOHN RUSSELL; BUSSE AND BUSSE PATENT U RECHTSANWAELTE PARTNERSCHAFT MBB; GREENWOOD JOHN DAVID; SUER STEVEN JOHANNES; GREENWOOD JOHN DAVID ET AL; CARPINTERO MARIO; SANFORD TCOLB AND CO; LEONARD TACHNER A PROFESSIONAL LAW CORP; CHRISTIE PARKER AND HALE LLP; HAYDEN A; ROBERT A; CARNEY HAYDEN A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

156) Family number: 18101904 (GB141161A)

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Title: Improvements relating to reinforced concrete building constructions

Abstract: 141,161. Adams, M. S. R. Feb. 27, 1919. No Patent granted (Sealing fee not paid). Arches and domes.-Churches, cottages, and c. are constructed with vaulted or arched roofs, and walls integral therewith, of reinforced concrete, cement, plaster, and c. of semi-elliptical cross-section or substantially so, the major axis being either vertical or horizontal. The vault or vaults a spring from the ground and form the roof and side walls of the upper story of the structure, no roof ties or wall abutments being required. The reinforcing-members for the concrete may comprise T or other angle-irons, to which metal lashing is attached. Fig. 7 shows a church constructed according to the invention.

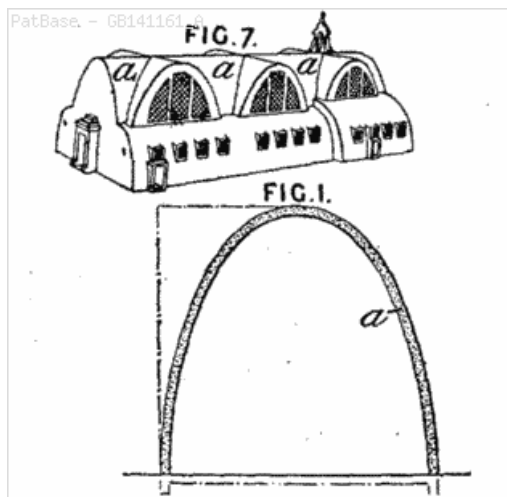
Classifications:

International (IPC 8-9): E04B7/10 (Advanced/Invention); E04B7/10 (Core/Invention)

International (IPC 1-7): E04B1/32

CPC: E04B7/102

European: E04B7/10B



Family:

Publication number	Publication date	Application number	Application date
GB141161 A	19200415	GB19190004927	19190227

Priority:

GB19190004927 19190227

Probable Assignee: MAURICE SPENCER ROWE ADAMS

Assignee(s): (std): MAURICE SPENCER ROWE ADAMS

157) Family number: 9349905 (WO9633320A1)

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Title: CUPOLAS OR CONVEX SURFACES WITH INDIVIDUAL PLANE SURFACE SECTIONS

Abstract: The proposed flattened spheres, cupolas or convex surfaces take the form of a polyhedron or a partial polyhedron. They consist of hexagonal and pentagonal plates (1, 2) joined together at the edges. The joining means are plugs (3), fluted sections (20), rings, cords, threads, wires, rubber bands (29) or threaded rods (27). Each pentagonal plate (2) is bordered solely by hexagonal plates (1). Three partial surfaces adjoin at each corner. The complete polyhedron comprises 20 hexagonal plates (1) and 12 pentagonal plates (2). The cupolas or convex surfaces may be used as bases for solar modules. They are, however, intended for use as structural components, e.g. in buildings, or as the entire outer shell of a building. The cupolas or convex surfaces may also be used as lamps or skylight housings, and may also be used as toys.

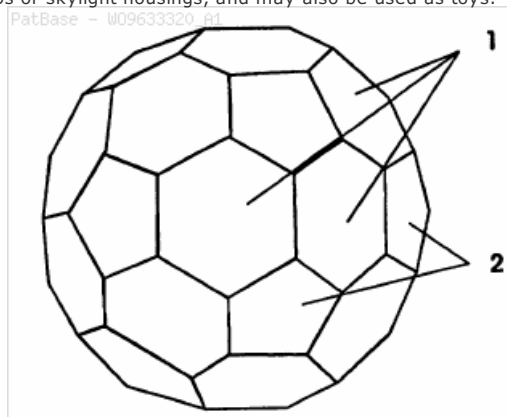
Classifications:

International (IPC 8-9): E04B1/32 (Advanced/Invention)

International (IPC 1-7): E04B1/32

CPC: E04B1/3211 E04B2001/3276 E04B2001/3294

European: E04B1/32C P04B1/32P1 P04B1/32S



Family:

Publication number	Publication date	Application number	Application date
WO9633320 A1	19961024	WO1996CH00114	19960401

Priority:

CH19950001107 19950418

Probable Assignee: WICKI WILLI

Assignee(s): (std): WICKI WILLI

Inventor(s): (std): WICKI WILLI

Designated states: AT BE CA CH CN DE DK ES FI FR GB GR IE IT LU MC NL PT RU SE US

158) Family number: 6531906 (GB2223289A)

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Title: A joint system

Abstract: A space frame joint system connecting structural members (10) to connectors (9) comprises a bolt having a bolt head (11) and a shaft (2), an annulus (3) and a collar (4). Each of the annulus and the collar has the shaft passing therethrough and the annulus engages with the bolt head. The bolt is connected to the collar by a pin (7) and flat (8) such that the bolt and the collar turn together. The annulus is fixed eg welded, to a frame member (10) and the bolt is fixed to the connector (9) in forming a space frame.

Classifications:**International (IPC 8-9):** E04B1/19 F16B35/04 F16B41/00

F16B7/18 (Advanced/Invention);

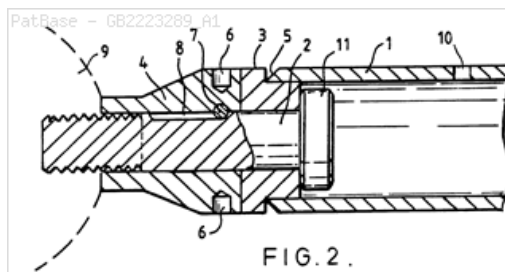
E04B1/19 F16B35/04 F16B41/00 F16B7/18 (Core/Invention)

International (IPC 1-7): F16B7/18**CPC:** E04B1/1903 E04B2001/1927 E04B2001/196 F16B7/18

F16B35/042 F16B41/002

European: E04B1/19B F16B35/04B1 F16B41/00B F16B7/18

P04B1/19C1 P04B1/19D1

**Family:**

Publication number	Publication date	Application number	Application date
GB2223289 A1	19900404	GB19880017748	19880726
GB2223289 B2	19920902	GB19880017748	19880726
GB8817748 A0	19880901	GB19880017748	19880726
SG9290993 A	19921224	SG19920090993	19920929

Priority:

GB19880017748 19880726

Probable Assignee: STANDARDS INST SINGAPORE**Assignee(s):** (std): STANDARDS INST SINGAPORE**Assignee(s):** SINGAPORE INSTITUTE OF STANDARDS AND INDUSTRIAL RE ; SINGAPORE INSTITUTE OF STANDARDS AND INDUSTRIAL RESEARCH ; SINGAPORE INSTITUTE OF STANDARDS AND INDUSTRIAL RESEARCH SISIR**Inventor(s):** (std): FEN SIMON CHIN YUN ; NGANG KOH CHONG ; PIAU PHANG YOK**Inventor(s):** SIMON CHIN YUN FEN ; PHANG YOK PIAU ; KOH CHONG NGANG**159) Family number: 2090908 (DE2435735A1)**

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Title: DOUBLE BONDING BUILDING BLOCK - WITH INTERLOCKING UNDULATING OR ZIG-ZAG SHAPED SIDE SURFACES FOR DOUBLY FORM LOCKING SERRATION**Abstract:** The interlocking building blocks may be double-bonding blocks for assembly into structural units which have no long, continuously extending smooth joints, or full-bonding blocks with no abrupt cross-sectional variations, and again with no smooth continuous joints, in the resultant units; a high degree of rigidity being attained in each case. The double-bonding blocks have interfitting wavy or zig-zag shaped lateral surfaces for joining together in a double-locking form of serration. The full-bonding blocks also have variably sloping sides for an even more firmly interlocking effect.**Classifications:****International (IPC 8-9):** E01C5/00 E04B2/08

E04B2/22 (Advanced/Invention);

E04B2/02 (Advanced/Non-invention);

E01C5/00 E04B2/04 E04B2/14 (Core/Invention);

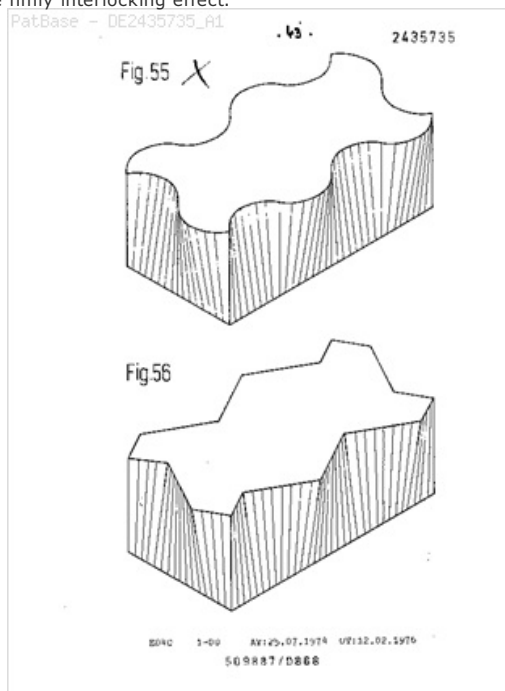
E04B2/02 (Core/Non-invention)

International (IPC 1-7): E01C5/00 E04B1/32 E04C1/00 E04F13/08 F16S5/00**CPC:** Y02A30/68 E04B2/08 E01C5/00 E01C2201/12 E04B2/22

E04B2002/0204 E04B2002/021 E04B2002/0213

European: E01C5/00 E04B2/08 E04B2/22 P01C201/12 P04B2/02M1

P04B2/02M1C P04B2/02M1D

**Family:**

Publication number	Publication date	Application number	Application date
DE2407621 A1	19750821	DE19742407621	19740218
DE2435735 A1	19760212	DE19742435735	19740725

Priority:

DE19742407621 19740218

DE19742435735 19740725

Probable Assignee: BURR KARL**Assignee(s):** (std): BURR KARL**Assignee(s):** BURR KARL 7920 HEIDENHEIM**Inventor(s):** (std): BURR KARL**Inventor(s):** BURR KARL 7920 HEIDENHEIM

Title: FUNERAL VAULT

Abstract: A two piece burial vault comprised of a cooperating pair of high density, molded polystyrene members which are adapted to be frictionally, foricibly coupled together to surround, seal and enclose a conventional casket. A lower generally planar base unit supports the coffin or casket, and an upper dome-like enclosure is adapted to be frictionally coupled to the lower base and forcibly maintained in relation therewith by the subsequent compressive force of accumulated dirt after burying of the vault. The base includes an inner surface from which a pair of upwardly projecting ridges emanate for supporting the casket. The sides and edges of the base are appropriately angled, for frictional interfitting with similarly configured internal edges of the dome. The base includes a downwardly projecting centered deck adapted to contact the lower surface of the grave, which is bordered by a pair of offset ledges which are adapted to receive and facilitate the use of conventional vault lowering straps. The lowering straps will not be inconveniently forced into abutment with either the bottom or sides of the grave when the apparatus is subsequently lowered into the ground. The higher density dome includes a top, a pair of spaced apart, inclined integral ends, and integral sides, all of which are inclined so as to sealably engage the cooperating inclined outer edge portions of the base. Preferably the inclination of the working surfaces of the dome is less extreme than the inclination of the working surfaces of the base. A grid-like series of reinforcement ribs disposed in a waffle like pattern prevents deformation, and a plurality of conveniently accessible handles molded into the base facilitate maneuvering of the vault.

Classifications:

International (IPC 8-9): A61G17/00 E04H13/00 (Advanced/Invention);

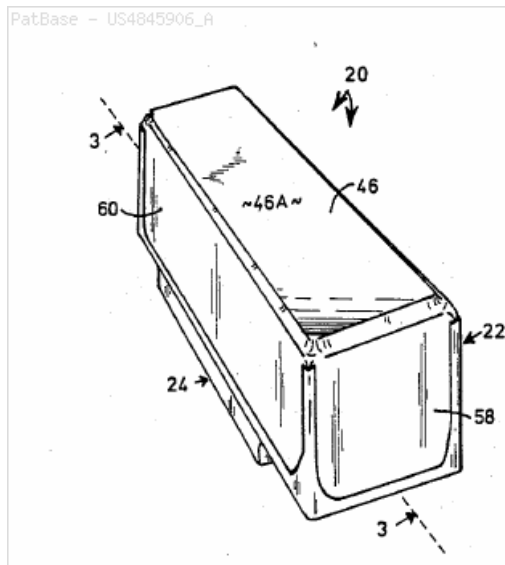
A61G17/00 E04H13/00 (Core/Invention)

International (IPC 1-7): C04H13/00

CPC: A61G17/007 E04H13/00 A61G17/00

European: A61G17/00 E04H13/00

US: 27/2 52/124.1 52/124.2 521/242

**Family:**

Publication number	Publication date	Application number	Application date
US4845906 A	19890711	US19880193140	19880506
US4967523 A	19901106	US19890354997	19890522

Priority:

US19860879591 19860627 US19860935706 19861123 US19880193140 19880506
 US19890354997 19890522

Probable Assignee: BLOUNT BERNARD

Assignee(s): (std): TURPIN ROWLAND A

Assignee(s): BLOUNT BERNARD ; BLOUNT BERNARD PO BOX

Inventor(s): (std): TURPIN ROWLAND A

Title: STAR DOME STRUCTURE

Abstract: A star dome structure having a rib vault formed from prefabricated panels. The structure includes a base, a four-sided star dome, four pentatives, and four column panels. One of four heptagonal panels formed from prefabricated triangular panels is disposed in each space formed by the dome, pentatives, and columns, the lower edge of each heptagonal panel resting on the base. The space between the column panels and the base permit entry and window walls to be installed with the lower edges of the column panels providing eaves.

Classifications:

International (IPC 8-9): E04B1/32 (Advanced/Invention);

E04B1/32 (Core/Invention)

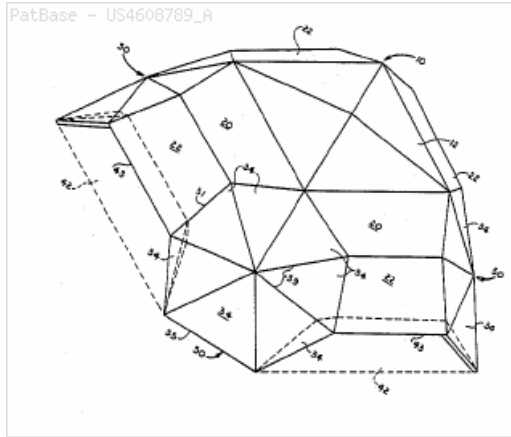
International (IPC 1-7): E04B1/32

CPC: Y10S52/10 E04B1/3211 E04B2001/3276 E04B2001/3288

E04B2001/3294

European: E04B1/32C P04B1/32P1 P04B1/32P2 P04B1/32S

US: 52/81 52/81.1 52/DIG.1 52/DIG.10

**Family:**

Publication number	Publication date	Application number	Application date
US4608789 A	19860902	US19830530710	19830909

Priority:

US19830530710 19830909

Probable Assignee:

WILLIS LYLE E

Assignee(s): (std):

WILLIS LYLE E

Inventor(s): (std):

WILLIS LYLE E

162) Family number: 1608913 (DE2655470B1)

© PatBase

Title: ORNAMENTAL BRICK WITH BULBOUS SIDE - HAS SQUARE TOP AND BOTTOM, HOLES IN SIDES, HOLLOW INTERIOR AND IS MADE FROM VARIETY OF MATERIALS

Abstract: The ornamental brick made of artificial stone, and suitable for cladding, light walls, enclosing gardens etc. has a rectangular or square top (1) and bottom, and has bulbous sides (5, 6) which are sinusoidal in shape. Some of these surfaces can have circular (8) or rectangular (9, 10) openings through them, with sloping edges. The interior can be hollow, especially where a wall is not load bearing. The bricks can be made of concrete, foamer concrete, plaster, plastics or alternatively of metal or cast metal such as grey, aluminium or red cast metal. The outside can be partly or completely coloured or multi-coloured. Alternatively the bricks can be half bricks, and a very large range of patterns can be built up using full bricks, half bricks, or combinations of either with other shapes. The holes can be filled with decorative material.

Classifications:

International (IPC 8-9): B44C3/12 E04C1/39 (Advanced/Invention); B44C3/00 E04C1/00 (Core/Invention)

International (IPC 1-7): B44C3/00 B44C5/00 E04C1/00 E04C1/39

CPC: B44C3/123 E04B2/12 E04C1/395

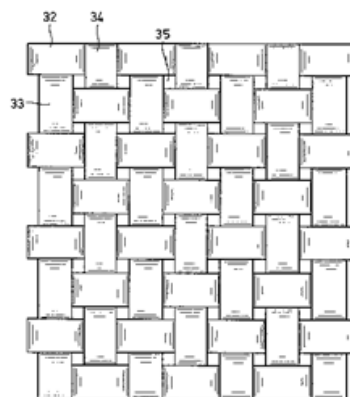
European: B44C3/12D E04B2/12 E04C1/39B

PatBase - DE2655470_B1

ZEICHNUNG BLATT 4

Nummer: 26 55 470
Int. Cl. B 44 C 3/00
Einschreibungsdatum: 22. Februar 1979

FIG. 9



KBR 606/074

Family:

Publication number	Publication date	Application number	Application date
DE2655470 A1	19780223	DE19762655470	19761208
DE2655470 B1	19780223	DE19762655470	19761208
DE2655470 C2	19781019	DE19762655470	19761208

Priority:

DE19762655470 19761208

Probable Assignee:

FEIST NORBERT

Assignee(s): (std):

FEIST NORBERT

Assignee(s):

FEIST NORBERT 5060 BERGISCHE GLADBACH

Inventor(s): (std): FEIST NORBERT
Inventor(s): FEIST NORBERT 5060 BERGISCH GLADBACH

163) Family number: 31728919 (US2009199503A)

© PatBase

Title: DEPLOYABLE STRUCTURES

Abstract: A deployable structure comprising a plurality of pairs of hingeably connected members, a first hinge element; and a second hinge element; wherein the two members of each pair of hingeably connected members are connected to the first and the second hinge elements respectively; and wherein the first hinge element is capable of being stabilized for facilitating stabilization of the deployable structure into a deployed state.

Classifications:

International (IPC 8-9): E04B1/19 E04B1/343 E04B1/344 E04C3/00

E04H12/18 (Advanced/Invention);

E04B1/19 E04B1/343 E04B1/344 E04C3/00

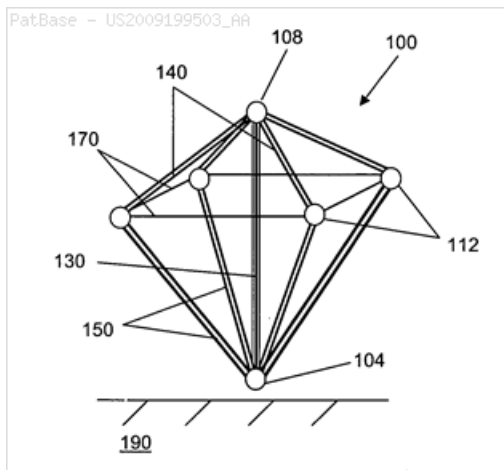
E04H12/00 (Core/Invention)

International (IPC 1-7): E04B1/343

CPC: E04B1/19 E04B1/3441 E04B2001/1996 E04C3/005

European: E04B1/19 E04B1/344B E04C3/00B P04B1/19T

US: 52/646 52/655.1



Family:

Publication number	Publication date	Application number	Application date
CN1875153 A	20061206	CN200480031757	20040903
EP1668198 A1	20060614	EP20040775603	20040903
EP1668198 A4	20090304	EP20040775603	20040903
US2009199503 AA	20090813	US20060570910	20060303
US2010058704 A9	20100311	US20060570910	20060303
WO05021882 A1	20050310	WO2004SG00281	20040903

Priority:

US20030499848P 20030903 WO2004SG00281 20040903 WO2005SG21882 20040903
US20060570910 20060303

Probable Assignee: UNIV SINGAPORE

Assignee(s): (std): KRISHNAPILLAI ANANDASIVAM ; LIEW JAT YUEN RICHARD ; UNIV SINGAPORE

Assignee(s): NATIONAL UNIV ; NATIONAL UNIV OF SINGAPORE ; NATIONAL UNIV SINGAPORE ; NATIONAL UNIVERSITY OF SINGAPORE

Inventor(s): (std): ANANDASIVAM LIEW JAT YUEN RICH ; KRISHNAPILLAI A ; KRISHNAPILLAI ANANDASIVAM ; LIEW JAT Y R ; LIEW JAT YUEN RICHARD

Inventor(s): LIEW JAT YUEN RICHARD KRISHNAPILLAI ANANDASIVAM ; LIEW JAT YR

Agent(s): FULWIDER PATTON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

164) Family number: 25201920 (CH162931A)

© PatBase

Title: ALS SCHALUNG UND PUTZTRAEGER VERWENDBARE ARMIERUNGSTAFEL. MOULD AND USABLE AS PUTZTRAEGER ARMIERUNGSTAFEL. (Machine translation)

Abstract: Source: CH162931A [DE] 1, Armierungstafel nach Patentanspruch, da durch gekennzeichnet, dass die vorstehen den Teile durch Einschneiden des Bleches erzeugt und wechselweise nach einer und nach der andern Seite des Bleches heraus gedrucekt sind. 2. Armierungstafel nach Patentanspruch, da durch gekennzeichnet, dass die vorstehen den Teile durch Einschneiden des Bleches erzeugt und nach einer einzigen Blech seite herausgedrueckt sind. 3. Armierungstafel nach Patentanspruch, da durch gekennzeichnet, dass zwischen je zwei aufeinanderfolgenden Teilen ein Zwi schenteil aus dem Blechstreifen heraus geschnitten ist, wobei die verbleibenden Stege die vorstehenden Teile bilden. 4. Armierungstafel nach Patentanspruch, da durch gekennzeichnet, dass die Teile Win kelform besitzen, so dass die Reihen der Teile eine fischgratartige Musterung des Blechstreifens ergeben.

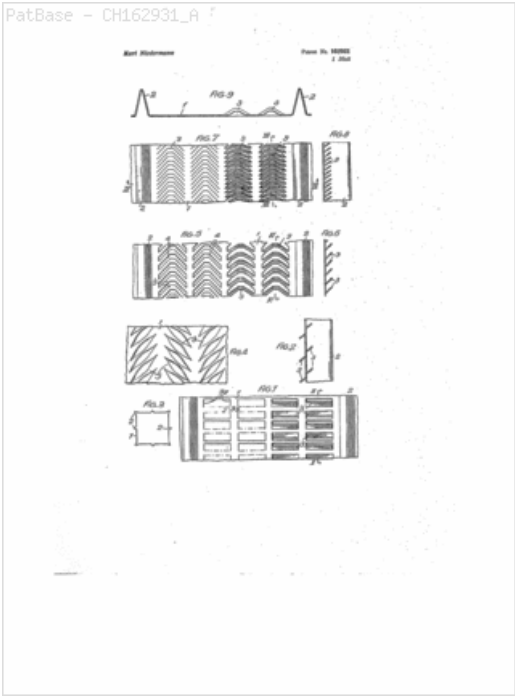
Machine translation: 1, Armierungstafel of claim, characterized in that the project are the parts produced by cutting the sheet and pressured alternately to one and to the other side of the sheet out. 2. Armierungstafel of claim, characterized in that the project are the parts produced by cutting the sheet and herausgedrueckt after a single sheet page. 3. Armierungstafel according to patent claim as. Characterized in that between each two successive portions of an interim part is cut from the sheet metal strip rule out, with the remaining webs form the protruding parts 4. Armierungstafel of claim, characterized in that the parts have Win kelform so that the ranks of the components work in fischgratartige patterning of the metal strip.

Classifications:

International (IPC 8-9): E02D5/20 E04C5/04 (Advanced/Invention);

E02D5/00 E04C5/01 (Core/Invention)

International (IPC 1-7): B65G3/00 E02D5/20 E04C5/04
CPC: E02D5/20 E04C5/04
European: E02D5/20 E04C5/04



Family:

Publication number	Publication date	Application number	Application date
CH162931 A	19330731		19320915

Priority:

19320915

Probable Assignee:

NIEDERMANN KARL

Assignee(s): (std):

NIEDERMANN KARL

Inventor(s): (std):

KARL NIEDERMANN

Inventor(s):

NIEDERMANN KARL

165) Family number: 12578933 (US5524396A) © PatBase

Title: SPACE STRUCTURES WITH NON-PERIODIC SUBDIVISIONS OF POLYGONAL FACES

Abstract: A family of space structures having subdivided faces, where such faces are subdivided into rhombii in non-periodic arrangements. The rhombii are derived from regular planar stars with n vectors, and the source space structures are composed of regular polygons. The family includes: globally symmetric structures where the fundamental region is subdivided non-periodically, or globally asymmetric structures composed of regular polygons which are subdivided non-periodically or asymmetrically. The rhombii can be further subdivided periodically or non-periodically. The family further includes all regular polyhedra in the plane-faced and curve-faced states, regular tessellations, various curved polygons, cylinders and toroids, curved space labyrinths, and regular structures in higher-dimensional and hyperbolic space. The structures can be isolated structures or grouped to fill space. Applications include architectural space structures, fixed or retractable space frames, domes, vaults, saddle structures, plane or curved tiles, model-kits, toys, games, and artistic and sculptural works realized in 2- and 3-dimensions. The structures could be composed of individual units capable of being assembled or disassembled, or structures which are cast in one piece, or combination of both. Various tensile and compressive structural systems, and techniques of triangulation could be used as needed for stability.

Classifications:

International (IPC 8-9): E04B1/19 E04B1/32

E04B7/10 (Advanced/Invention);

E04B1/19 E04B1/32 E04B7/10 (Core/Invention)

International (IPC 1-7): E04B1/32

CPC: E04B1/19 E04B1/32 E04B7/105 E04B2001/1981 E04B2001/199

E04B2001/1993 E04B2001/3223 E04B2001/3247 E04B2001/3276

E04B2001/3294 Y10S52/10

European: E04B1/19 E04B1/32 E04B7/10C P04B1/19G P04B1/19H

P04B1/19K P04B1/32K P04B1/32M1B P04B1/32P1 P04B1/32S

US: 52/311.2 52/81.1 52/81.2 52/811 52/812 52/DIG.1 52/DIG.10

**Family:**

Publication number	Publication date	Application number	Application date
US5524396 A	19960611	US19930075145	19930610

Priority:

US19930075145 19930610

Probable Assignee:

LALVANI HARESH

Assignee(s): (std):

LALVANI HARESH

Inventor(s): (std):

LALVANI HARESH

166) Family number: 1159935 (US3898777A)

© PatBase

Title: Dome and vault construction

Abstract: A structural arrangement for dome-shaped or vaultlike structures. Prefabricated, three-terminal members having Y or inverted delta shaped configurations are assembled in successive tiers and interconnected with one another at their terminals.

Classifications:

International (IPC 8-9): E04B1/32 E04B7/10 (Advanced/Invention);
E04B1/32 E04B7/10 (Core/Invention)

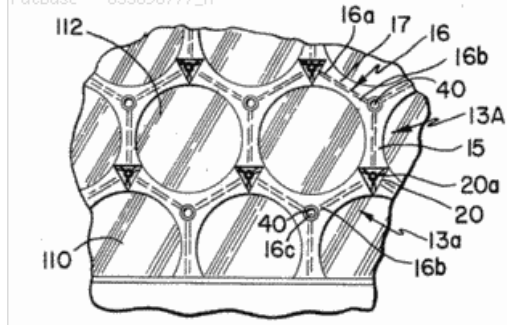
International (IPC 1-7): E04B1/32 E04B7/08

CPC: E04B1/3211 E04B7/105 E04B2001/3247 E04B2001/3252
E04B2001/3282 E04B2001/3288

European: E04B1/32C E04B7/10C P04B1/32M1B P04B1/32M2
P04B1/32P1B P04B1/32P2

US: 52/308 52/81.1 52/810

PatBase - US3898777_A

**Family:**

Publication number	Publication date	Application number	Application date
US3898777 A	19750812	US19730353417	19730423

Priority:

US19700035777 19700508

US19730353417 19730423

Probable Assignee:

GEORGIEV TANCHO D

Assignee(s): (std):

GEORGIEV TANCHO D ; SCANZANI ROBERT M

Inventor(s): (std):

GEORGIEV TANCHO D ; SCANZANI ROBERT M

167) Family number: 43109940 (GB228123A)

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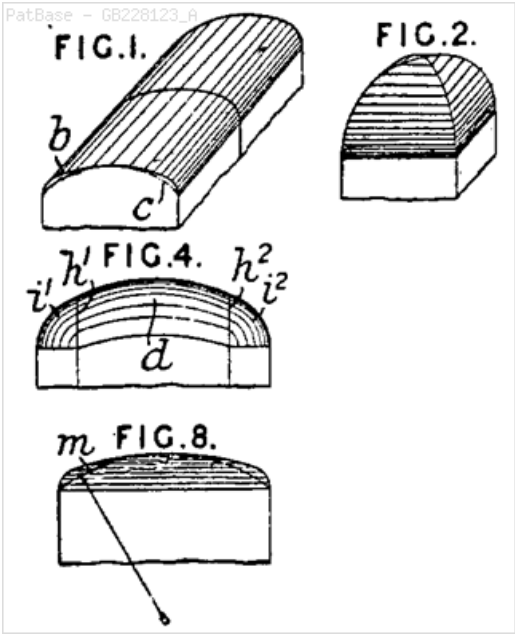
Title: Improvements in vaults of reinforced concrete

Abstract: 228,123. Zeiss, C., [Firm of]. Jan. 21, 1924, [Convention date]. Void [Published under Sect. 91 of the Act]. Reinforced-concrete roofs; arches and domes. - Barrelvaulted reinforced concrete roofs with trusses but no purlins are shaped so that the tangents at the edges are vertical and the cross-section is cambered relatively to the line of thrust c passing through the crown n and springings, so that the thrust in the arch is transmitted tangentially from the crown

downwards. The generating curve b may be displaced along a straight director line, as in Fig. 1, or a curved line. Two curved surfaces may penetrate as in Fig. 2, and the arrises at the angles may be suppressed. Fig. 4 shows a roof having a double-curved surface d and end caps i, i to take the thrust on the trusses h, h. Fig. 8 shows a spherical dome similarly modified by cambering it above the circular are m.

Classifications:

International (IPC 8-9): B60B3/18 D06P5/13 D06P5/15 E04B7/10 (Advanced/Invention); B60B3/00 D06P5/13 D06P5/15 E04B7/10 (Core/Invention)
CPC: B60B3/18 D06P5/138 D06P5/15 E04B7/102
European: B60B3/18 D06P5/13T D06P5/15 E04B7/10B



Family:

Publication number	Publication date	Application number	Application date
GB228123 A	19251015	GB19240031088	19241229

Priority:

19240121

Probable Assignee:

CARL ZEISS AG

Assignee(s): (std):

CARL ZEISS AG ; ZEISS CARL

Assignee(s):

CARL ZEISS

168) Family number: 30754949 (US2004164436A)

© PatBase

Title: MULTI-NOZZLE ASSEMBLY FOR EXTRUSION OF WALL

Abstract: A multi-nozzle assembly may include a first nozzle configured to extrude material through a first outlet; a second nozzle configured to extrude material through a second outlet; and a third nozzle configured to extrude material through a third outlet, the third outlet being between the first and second outlets. Related construction processes and wall structures are also disclosed.

Classifications:

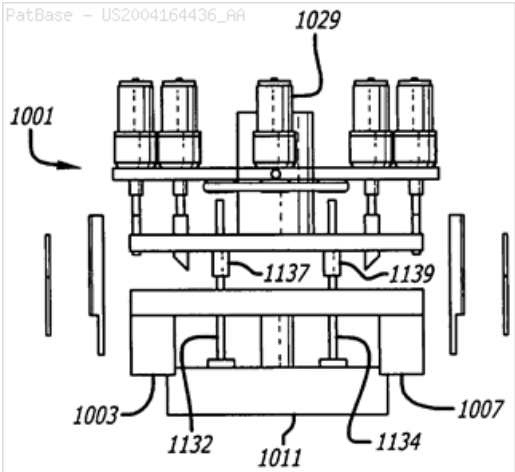
International (IPC 8-9): B25J13/00 B25J13/08 B25J15/00 B25J18/00 B28B1/16 B28B19/00 B28B23/00 B28C47/00 B28C7/02 B29C B29C47/00 B29C47/02 B29C47/06 B29C47/60 B29C47/92 B29C65/52 B29C67/00 B65D35/28 B65D35/34 E04B E04B1/14 E04B1/16 E04B1/35 E04B2/00 E04B2/02 E04B2/84 E04B2/86 E04G E04G11/06 E04G11/16 E04G21/00 E04G21/02 E04G21/10 E04G21/16 E04G21/20 E04G21/22 G06F19/00 (Advanced/Invention); E04B2/02 (Advanced/Non-invention); B25J13/00 B25J13/08 B25J15/00 B25J18/00 B28B19/00 B28B23/00 B29C47/00 B29C47/02 B29C47/06 B29C47/60 B29C47/92 B29C67/00 B65D35/24 E04B1/02 E04B1/16 E04B2/00 E04B2/02 E04B2/84 E04B2/86 E04G11/00 E04G21/00 E04G21/02 E04G21/10 E04G21/16 E04G21/20 (Core/Invention); B29C E04B E04G (Subclass/Invention)

International (IPC 1-7): B29C047/92 B29C47/00 B29C47/02 B29C47/06 B29C47/60 B29C47/92 B65D35/28 B65D35/34 E04B1/16 E04B2/02 E04G11/06

CPC: E04B1/161 E04B1/166 E04B1/3211 E04B2001/3588 E04C5/06 E04C5/166 E04C5/168 B25J9/026 B25J19/0025 F16L3/127 F16L3/13 E04F21/1872 E04F21/22 B28B1/001 B29C64/106 E04B1/3505

European: B29C67/00R2

US: 222/100 249/20 264/173.12 264/31 264/34 264/34P 366/12 366/139 366/155.1 366/189 366/76.3 366/78 425/110 425/114 425/131.1 425/206 425/207 425/207P 425/375 425/463 425/60 425/63 425/64 425/64S 52/415 52/425 52/745.09 700/123 700/245 700/245P 901/43



Family:

Publication number	Publication date	Application number	Application date
AT550169 E	20120415	AT20040704067T	20040121
CN100351471 C	20071128	CN200480002470	20040121
CN101177955 A	20080514	CN200710163015	20040121
CN101177955 B	20130123	CN200710163015	20040121
CN1738951 A	20060222	CN200480002470	20040121
DE602004036984 D1	20120516	DE200460036984T	20040121
DE602005038551 D1	20130508	DE200560038551T	20050121
EP1587995 A2	20051026	EP20040704067	20040121

EP1587995 A4	20090909	EP20040704067	20040121
EP1587995 B1	20120321	EP20040704067	20040121
EP1711328 A1	20061018	EP20050711785	20050121
EP1711328 A4	20111228	EP20050711785	20050121
EP1711328 B1	20130313	EP20050711785	20050121
EP2610417 A1	20130703	EP20130001199	20050121
HK1082280 A1	20120921	HK20060104119	20060404
HK1082280 A1	20060602	HK20060104119	20060404
HK1082280 A3	20060602	HK20060104119	20060404
HK1082280 B	20120921	HK20060104119	20060404
HK1096345 A1	20131108	HK20070103706	20070410
HK1096345 A1	20070601	HK20070103706	20070410
HK1096345 A3	20070601	HK20070103706	20070410
HK1096345 B	20131108	HK20070103706	20070410
JP2006515908 T2	20060608	JP20060501068T	20040121
JP2007518586 T2	20070712	JP20060551305T	20050121
JP4527107 B2	20100818	JP20060501068T	20040121
MXPA05007778 A1	20060131	MX2005PA07778	20040121
US2004164436 AA	20040826	US20040760963	20040120
US2005194401 AA	20050908	US20050040602	20050121
US2005196482 AA	20050908	US20050040518	20050121
US2005196484 AA	20050908	US20050040401	20050121
US2009043424 AA	20090212	US20080249319	20081010
US2010318222 AA	20101216	US20100860367	20100820
US2012038074 AA	20120216	US20110216971	20110824
US7153454 BB	20061226	US20040760963	20040120
US7452196 BB	20081118	US20050040602	20050121
US7641461 BB	20100105	US20050040401	20050121
US7837378 BB	20101123	US20050040518	20050121
US8029258 BB	20111004	US20100860367	20100820
US8518308 BB	20130827	US20110216971	20110824
WO04065707 A2	20040805	WO2004US01535	20040121
WO04065707 A3	20041014	WO2004US01535	20040121
WO05070657 A1	20050804	WO2005US01954	20050121

Priority:

US20030441572P	20030121	US20040537756P	20040120	US20040760963	20040120
EP20040704067	20040121	WO2004US01535	20040121	EP20050711785	20050121
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WO2005US01954	20050121	US20080249319	20081010	US20100860367	20100820
US20110216971	20110824				

Probable Assignee: OF SOUTHERN CALIFORNIA UNIV

Assignee(s): (std): KHOSHNEVIS BEHROKH ; KHOSHNEVIS BEROKH ; UNIV SOUTHERN CALIFORNIA

Assignee(s): UNIVERSITY OF SOUTHERN CALIFORNIA ; BELL SOUTH INTELLECTUAL PROPERTY CORP ; NATIONAL SCIENCE FOUNDATION ; OF SOUTHERN CALIFORNIA LOS ANGELES UNIV ; OF SOUTHERN CALIFORNIA UNIV ; SOUTHERN CALIFORNIA UNIV

Inventor(s): (std): KHOSHNEVIS BEROKH ; KHOSHNEVIS BEHROKH ; BEHROKH KHOSHNEVIS

Inventor(s): KHOSHNEVIS BEHROKH LOS ANGELES

Agent(s): MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; MUELLER BORE AND PARTNER PATENTANWAELTE; Müller-Boré & Partner Patentanwälte; MUELLER BORE AND PARTNER PATENTANWAELTE; WONG YAU CHUN; ORIENTAL INTELLECTUAL PROPERTY SERVICES CO; MARC E BROWN MCDERMOTT WILL AND EMERY; MCDERMOTT WILL AND EMERY (LOS ANGELES OFFICE); MCDERMOTT WILL AND EMERY LOS ANGELES OFFICE; MCDERMOTT WILL AND EMERY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

169) Family number: 6040949 (EP0298863A1)

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Title: SELF-CARRYING PLANE RETICULAR STRUCTURE.

Abstract: The invention relates to a self-supporting plane reticular structure comprising at least one network of long, thin elements (3) extending over a plane sheet in which they are assembled by their ends (5) according to the nodes (6) of the said network. The structure is characterised in that instead of the support (9) consisting only of a central core around which the arms (12) linking the structural elements (3) radiate, the said support (9) consists in at least one rigid plate on at least one of the opposing faces (15, 16) to which the linking arms (12) are anchored so as to radiate parallel to the said face (15, 16) and according to the required arrangement.

Classifications:

International (IPC 8-9): E04B1/24 (Advanced/Invention);

E04B1/00 (Advanced/Non-invention);

E04B1/24 (Core/Invention);

E04B1/00 (Core/Non-invention)

International (IPC 1-7): E04B1/24 E04B1/40 E04B7/02 E04C3/06

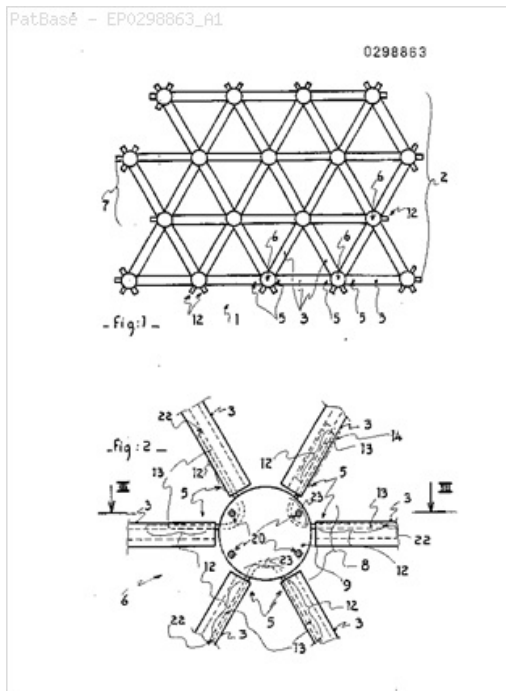
E04H1/02 F16S3/06

CPC: E04B1/24 E04B2001/0084 E04B2001/2406 E04B2001/2448

E04B2001/249

European: E04B1/24 P04B1/00S6 P04B1/24B2 P04B1/24B40

P04B1/24R

**Family:**

Publication number	Publication date	Application number	Application date
EP0298863 A1	19890111	EP19880401757	19880705
FR2617883 A1	19890113	FR19870010082	19870707
FR2617883 B1	19911011	FR19870010082	19870707

Priority:

FR19870010082 19870707

Probable Assignee: DAOUK FOUAD**Assignee(s):** (std): DAOUK FOUAD**Inventor(s):** (std): DAOUK FOUAD**Designated states:** AT BE CH DE ES FR GB GR IT LI LU NL SE**170) Family number: 50627953 (ES1076129U)**

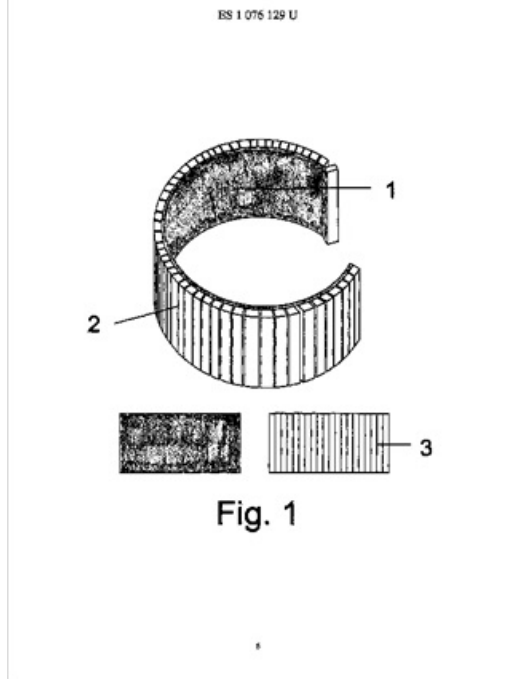
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Title: PANEL CURVABLE PARA AISLAMIENTO TERMICO DE CONSTRUCCIONES SINGULARES THERMAL INSULATION PANEL bendable UNIQUE BUILDING (Machine translation)

Abstract: Source: ES1076129U [ES] 1. Panel curvable para aislamiento termico de construcciones singulares, del tipo de panel constituido por un cuerpo rectangular o cuadrangular de diferentes dimensiones de poliestireno expandido u otro aislamiento sintético de estructura celular, con la posibilidad de presentar rebajes escalonados en los bordes perimetrales para acoplamiento machihembrado entre paneles, caracterizado por estar recubierto por una o ambas caras, de una capa (1) de aglomerante sintético armada con tejido de fibra de vidrio, y por presentar una pluralidad de cortes longitudinales (2) en una o varias direcciones a través de su superficie, que atravesando perpendicularmente su sección hasta alcanzar el recubrimiento superficial exterior, facetan el cuerpo del panel según diferentes formas poliedricas desgajables, permitiendo su articulación y acoplamiento sobre soportes curvos o quebrados de elementos singulares de construcción. 2. Panel curvable para aislamiento termico de construcciones singulares, según primera reivindicación, caracterizado por estar constituido en base a un cuerpo rectangular (3) con una pluralidad de cortes longitudinales paralelos entre lados opuestos en una sola dirección, facetándole según una pluralidad de prismas rectangulares, permitiendo su articulación y acoplamiento sobre soportes cilindricos (4). 3. Panel curvable para aislamiento termico de construcciones singulares, según primera reivindicación, caracterizado por estar constituido por un cuerpo cuadrangular (5) con una pluralidad de cortes longitudinales paralelos entre lados opuestos en dos direcciones, facetándole según una pluralidad de prismas cuadrangulares, permitiendo su articulación y acoplamiento sobre soportes esfericos (6).

Machine translation: 1. Bendable panel for heat insulation of landmark buildings, the type of panel consists of a rectangular or square in different dimensions of expanded polystyrene or other synthetic insulation cell structure, with the possibility of stepped recesses in the perimeter edges for tongue and groove coupling between panels characterized by being coated on one or both sides of a layer (1) of synthetic binder reinforced with glass fiber fabric, and having a plurality of longitudinal cuts (2) in one or more directions through their surface, that through its section perpendicular to the surface coating aboriginal women outside the body panel facetan according to different polyhedral shapes desgajables, allowing coupling joint and curved substrates or broken construction. 2 unique elements. Deflectable panel for thermal insulation of unique constructions, according to first claim, characterized by being formed based on a rectangular body (3) with a plurality of parallel longitudinal cuts between opposite sides in a single direction, facetandole according to a plurality of rectangular prisms, allowing their articulation and coupling on cylindrical supports (4) 3. Deflectable panel for thermal insulation of unique constructions, according to first claim, characterized by being formed by a quadrangular body (5) with a plurality of parallel longitudinal cuts between opposite sides in two directions, according facetandole a plurality of quadrangular prisms, allowing their articulation and spherical coupling substrates (6).

Classifications:**International (IPC 8-9):** E04B1/76 F16L59/02 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
ES1076129 UA	20120207	ES20110001088U	20111114
ES1076129 Y1	20120508	ES20110001088U	20111114

Priority:

ES20110001088U 20111114

Probable Assignee:

TEAIS SA

Assignee(s): (std):

TEAIS S A ; TEAIS SA

Inventor(s): (std):

ANTELO PENSADO ERNESTO

171) Family number: 8430971 (US5904006A)

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Title: CONSTRUCTION MODULE, PANEL AND SYSTEM

Abstract: PCT No. PCT/AU95/00238 Sec. 371 Date Oct. 21, 1996 Sec. 102(e) Date Oct. 21, 1996 PCT Filed Apr. 21, 1995 PCT Pub. No. WO95/29305 PCT Pub. Date Nov. 2, 1995A module for a construction system is disclosed which can be used to form building panels and three-dimensional structures that may include self-supporting cladding. In one form the basic module (10, Fig. 1A, drawing [e]) is formed from two pleated hexagonal plates (11a and 14a) joined together at their peripheries with their concave sides together and with the ridges on one opposite the valleys of the other. Each plate is formed from a blank (11 and 14, respectively) which is a hexagon distorted by extending the radii which will form the valleys of the plate with respect to the radii of a regular hexagon (drawings [a] and [b]).

Classifications:

International (IPC 8-9): E04B7/10 E04C2/30 E04C2/32 E04C2/34 E04D1/02 E04D3/24 (Advanced/Invention);

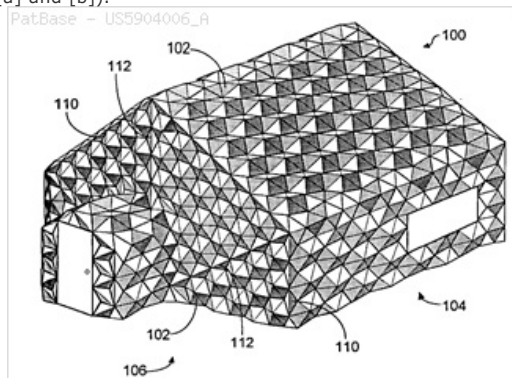
E04B7/10 E04C2/30 E04C2/32 E04C2/34 E04D1/02 E04D3/24 (Core/Invention)

International (IPC 1-7): E04B7/08 E04B7/10 E04C2/30 E04C2/32 E04C2/34

CPC: Y10S52/10 E04D3/24 E04B7/107 E04C2/30 E04D1/02

European: E04B7/10D E04C2/30 E04D1/02 E04D3/24

US: 52/80.1 52/801 52/81.4 52/81.5 52/814 52/815 52/DIG.1 52/DIG.10

**Family:**

Publication number	Publication date	Application number	Application date
AU199522984 A1	19951116	AU19950022984	19950421
AU525394 A0	19940519	AU1994PM05253	19940422
AU691279 B2	19980514	AU19950022984	19950421
US5904006 A	19990518	US19960727561	19961021
WO9529305 A1	19951102	WO1995AU00238	19950421

Priority:

AU1994PM05253 19940422

AU19950022984 19950421

WO1995AU00238 19950421

Probable Assignee: SUTTON KEITH ASHLEY

Assignee(s): (std): EVANS R ; EVANS RONALD JAMES ; SUTTON KEITH ASHLEY ; RONALD JAMES EVANS

Assignee(s): KEITH ASHLEY SUTTON ; KEITH ASHLEY SUTTON AUSTRALIAN CITIZEN
Inventor(s): (std): EVANS RONALD JAMES
Inventor(s): RONALD JAMES EVANS
Agent(s): MR K A SUTTON
Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN

172) Family number: 7437977 (US4154031A)

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Title: Vault

Abstract: A burial vault having a base of rather planar configuration, a dome like portion extending thereabove, and capable of securing with the base by means of a seat provided around the periphery of the said base that accommodates the lower continuous edge of the said dome portion; the base is provided with a pair of recesses that provide clearance for the location of the straps or other instrumentality as used during the handling and descent of the burial vault, with the dome portion of the vault having internal reinforcement, either in the form of integral ribs, or embedded rods, or a combination of each, so as to rigidify the dome and enhance its load supporting strength during usage.

Classifications:

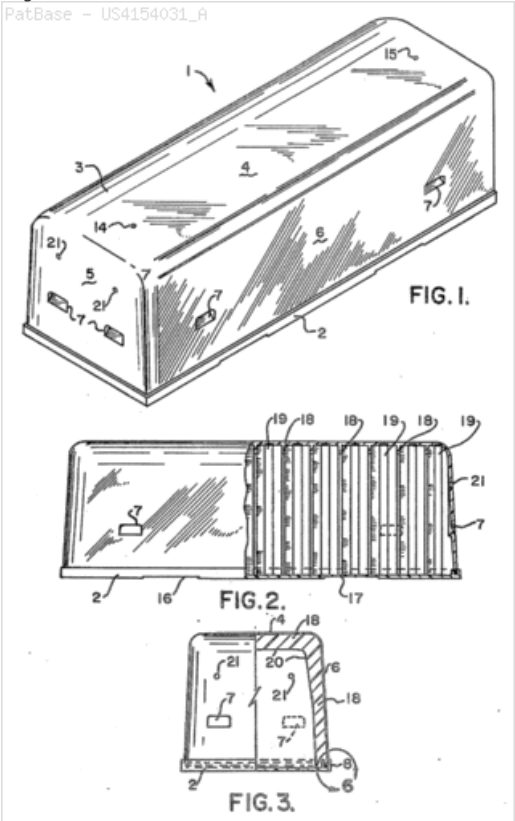
International (IPC 8-9): E04H13/00 (Advanced/Invention);
E04H13/00 (Core/Invention)

International (IPC 1-7): E04H13/00

CPC: E04H13/00

European: E04H13/00

US: 27/35 52/100 52/124.1 52/138



Family:

Publication number	Publication date	Application number	Application date
US4154031 A	19790515	US19780869787	19780116

Priority:

US19780869787 19780116

Probable Assignee: WILLIAMSON MIMS JR

Assignee(s): (std): WILLIAMSON MIMS JR

Inventor(s): (std): WILLIAMSON MIMS JR

173) Family number: 3127983 (FR2226522A)

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Title: ADJUSTABLY CURVED STEEL BEAM - HAS LONGITUDINAL STRIPS CLAMPED TO TOPS OF VERT. WEBS OF BOTTOM FLANGE

Abstract: The beam comprises a bottom flange to one face of which are welded eleven webs (2). At each end of the bottom flange (1) there are vertical plates (8) which are reinforced by fillets (9). The top edges of the webs contain three vertical studs (3). The top flange comprises a pair of steel strips (4) which are laid between the studs and which are separated by a space (5). The top flange pieces are held in place by cross bars (7) which are held by nuts (6). To obtain the desired curvature the beam is bent on a template and the nuts are tightened to maintain the position.

Classifications:

International (IPC 8-9): E04C3/10 E04C3/40 (Advanced/Invention);

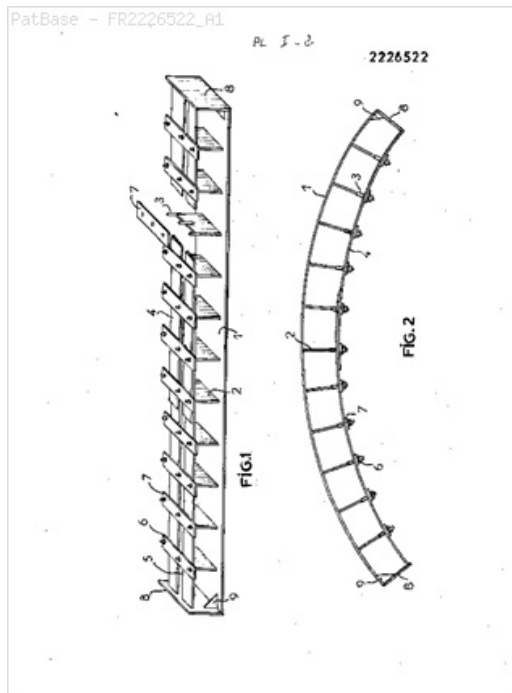
E04C3/04 (Advanced/Non-invention);

E04C3/04 E04C3/38 (Core/Invention)

International (IPC 1-7): E04C3/02 E04G25/00

CPC: E04C3/10 E04C3/40 E04C2003/0495

European: E04C3/10 E04C3/40 P04C3/04T2



Family:

Publication number	Publication date	Application number	Application date
FR2226522 A1	19741115	FR19730014195	19730418
FR2226522 B1	19760910	FR19730014195	19730418

Priority:

FR19730014195 19730418

Probable Assignee: KOCH ANC RIEGER ETS SA

Assignee(s): (std): KOCH ANC ETS RIEGER SA ETS ; KOCH ANC RIEGER ETS SA

Assignee(s): KOCH ANC RIEGER FR ETS SA ; KOCH ANC ETS RIEGER SA ETS FR

174) Family number: 20645984 (US5794402A)

© PatBase

Title: MODULAR POLYMER MATRIX COMPOSITE SUPPORT STRUCTURE AND METHODS OF CONSTRUCTING SAME

Abstract: A modular structural section for use in support structures such as load bearing decks or highway bridges. The modular structural section includes at least one beam and a load bearing deck preferably formed of a polymer matrix composite material. The deck includes a core having elongated core members having a polygonal shape, preferably a trapezoidal shape. Alternatively, the load bearing deck contains at least one sandwich panel suitable for applications such as barge decks, hatchcovers, and other load bearing wall applications. Methods of constructing a support structure utilizing the novel modular structural section and support members are also provided.

Classifications:

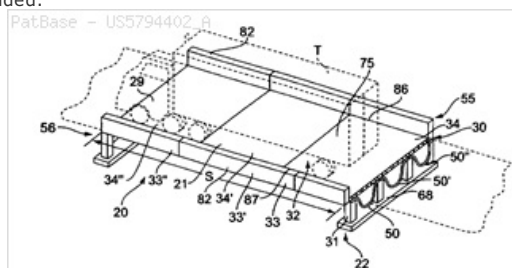
International (IPC 8-9): B63B19/14 B63B3/48 B63B5/06 E01D19/00 E01D19/12 E01D2/00 E04B1/19 E04B1/32 E04B1/34 E04B1/343 E04B5/00 E04B5/42 E04B7/08 E04B7/10 E04B9/00 E04H3/10 (Advanced/Invention); E04B1/19 E04B1/34 E04B7/08 (Advanced/Non-invention); E04B1/343 (Core/Invention); E04B7/08 (Core/Non-invention)

International (IPC 1-7): A47B13/08 E01D1/00 E04B01/16 E04B1/00 E04B1/02 E04B1/12 E04B1/34 E04B1/343 E04B5/42 E04B5/52 E04B7/08 E04C2/02 E04C2/54

CPC: Y10T428/24248 Y10T428/31678 Y10T428/31909 E01D19/125 B63B3/48 B63B19/14 E01D2/00 E01D2101/40 E04B7/08 E04B1/19 E04B1/32 E04B7/105 E04B2001/1918 E04B2001/1927 E04B2001/193 E04B2001/1936 E04B2001/1963 E04B2001/1981 E04B2001/1984 E04B2001/1987 E04B2001/1993 E04B2001/3247 E04B2001/3252 E04B2001/3294

European: B63B19/14 B63B3/48 E01D19/12B E01D2/00 E04B1/32 E04B7/08 E04B7/10C P01D101/40 P04B1/19 P04B1/19B4 P04B1/19C1 P04B1/19C1F P04B1/19C3 P04B1/19D2 P04B1/19G P04B1/19G2 P04B1/19G3 P04B1/19K P04B1/32M1B P04B1/32M2 P04B1/32S

US: 14/73.1 14/731 428/128 428/457 428/515 52/263 52/443 52/639 52/652.1 52/653.1 52/654.1 52/783.11 52/783.17 52/783.19 52/81.1 52/81.2 522/630 524/430



Family:

Publication number	Publication date	Application number	Application date
AR010489 AA	20000628	AR1997P104479	19970929
AT285006 E	20050115	AT19970942438T	19970929
AU199744136 A1	19980424	AU19970044136	19970917
AU199851076 A1	19980414	AU19980051076	19970917
CA2267228 AA	19990329	CA19972267228	19970929
CA2267228 C	20060801	CA19972267228	19970929
CL1997001934 A1	19980707	CL19970001934	19970922
CL1997002022 A1	19980605	CL19970002022	19970929
CN1105814 C	20030416	CN19971098942	19970917
CN1234088 A	19991103	CN19971098942	19970917
DE0929724 T1	20030814	DE19970942438T	19970929

DE69731962 D1	20050120	DE19976031962	19970929
DE69731962 T2	20050519	DE19976031962T	19970917
DK0929724 T3	20050425	DK19970942438T	19970929
EP0928355 A1	19990714	EP19970945651	19970917
EP0928355 A4	20010221	EP19970945651	19970917
EP0929724 A1	19990721	EP19970942438	19970929
EP0929724 A4	20010307	EP19970942438	19970929
EP0929724 B1	20041215	EP19970942438	19970929
ES2232883 T3	20050601	ES19970942438T	19970929
HK1022941 A1	20030829	HK20000102025	20000405
JP2000517015 T2	20001219	JP19980515031T	19970917
PE104598 A1	19990110	PE19970000871	19970929
TH32539 A	19990310	TH19971003917	19970926
TW341612 B	19981001	TW19970114238	19970930
TW357215 B	19990501	TW19970113608	19970919
US5794402 A	19980818	US19960723109	19960930
US6044607 A	20000404	US19980037865	19980310
US6070378 A	20000606	US19980139566	19980825
US6092350 A	20000725	US19980037888	19980310
US6108998 A	20000829	US19980024707	19980217
US6192634 BA	20010227	US19980180054	19981029
WO9812398 A1	19980326	WO1997US21376	19970917
WO9814671 A1	19980409	WO1997US16130	19970929

Priority:

US19960025761P 19960920	US19960723109 19960930	WO1997US16130 19970917
WO1997US21376 19970917	EP19970942438 19970929	WO1997US16130 19970929
US19980024707 19980217	US19980037888 19980310	US19980037865 19980310
US19980139566 19980825	US19980180054 19981029	

Probable Assignee: TEMCOR

Assignee(s): (std): DURLAO CHRIS ; LOPEZ ALFONSO E ; MARTIN MARIETTA MATERIALS INC ; TEMCOR ; ABRAHAMSON ERIC ; TEMCOR CORP

Assignee(s): COMERICA BANK ; TEMCORUS ; Martin Marietta Materials Inc. ; TEMCOR SOC ORGANIZADA BAJO LAS LEYES DEL ESTADO DE CALIFORNIA ; MARTIN MARIETTA MATERIALS

Inventor(s): (std): ABRAHAMSON ERIC ; ALFONSO E LOPEZ ; CHRIS DURLAO ; DURLAO CHRIS ; ERIC ABRAHAMSON ; LOPEZ ALFONSO E

Inventor(s): Dumlao ; Chris

Agent(s): ROBIC; VILLASECA; SARGENT

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US UZ VN YU ZW

175) Family number: 42905986 (MXPA06001343A)

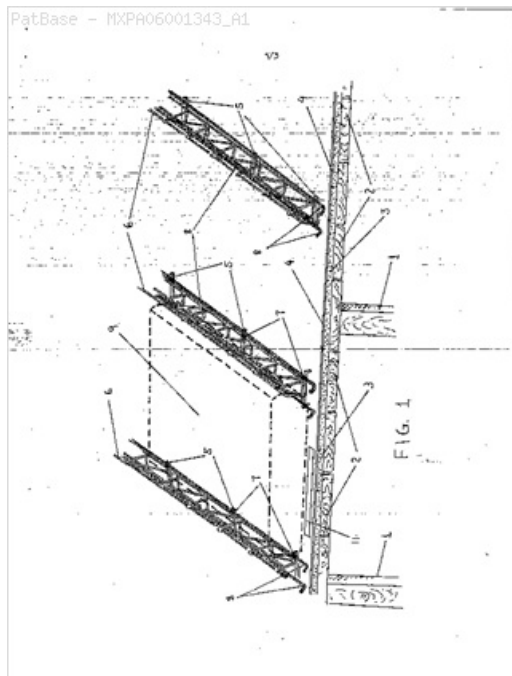
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Title: IMPROVEMENTS IN THE CONSTRUCTIVE PROCESS OF A SMALL BEAM- AND SMALL VAULT-TYPE SYSTEM APPLIED IN THE CONSTRUCTION OF MEZZANINE AND TERRACE ROOF FLAGSTONES.

Abstract: THE PRESENT INVENTION REFERS TO IMPROVEMENTS IN THE CONSTRUCTIVE PROCESS OF A SMALL BEAM- AND SMALL VAULT-TYPE SYSTEM, AND THE LOCATION OF THE DIFFERENT MATERIALS FORMING A CONCRETE FLAGSTONE, IN ORDER TO USE THE QUALITIES THEREOF, THUS FACILITATING THE RAISING, HANDLING, LOCATION AND DRYING TIME OF THE DIFFERENT MATERIALS THEREOF, THEREBY REDUCING COSTS AND THE OPERATION TIME. THE PROCESS CONSISTS IN LOCATING THE CENTERING MATERIAL BY AVOIDING THE DIRECT CONTACT BETWEEN THE CENTERING AND THE CONCRETE, USING THE ABRASIVE QUALITIES OF CONCRETE IN ORDER TO PROTECT THE CENTERING AND REDUCE USE COSTS. THE AFOREMENTIONED PROCESS MAY BE APPLIED FOR CONSTRUCTING REINFORCED MEZZANINE AND TERRACE ROOF FLAGSTONES, WHICH GENERATE SPACES COVERED THEREWITH FOR PROTECTING OF HUMAN BEING ACTIVITIES; THUS BEING ALSO USED AS A FLAGSTONE SUPPORTED IN A SINGLE DIRECTION. THE INVENTION IS FURTHER USED FOR CONSTRUCTING VAULTS (DOMES, TIMBREL, SQUARED BASE, ETC.), AS WELL AS DOMES BY USING SUITABLE SHAPED POLYSTYRENE HOUSINGS WITHOUT A LOWER SLIDE, TRADITIONALLY

Classifications:

International (IPC 8-9): E04B1/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
MXPA06001343 A1	20070801	MX2006PA01343	20060202

Priority:

MX2006PA01343 20060202

Probable Assignee:

PENA RIVERA JORGE MAURICIO

Assignee(s): (std):

PENA RIVERA JORGE MAURICIO

Inventor(s): (std):

PENA RIVERA JORGE MAURICIO

176) Family number: 22960990 (FR1243793A)

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Title: PROCEDE DE CONSTRUCTION DE VOUTES ET COUPOLES EN BETON TRANSLUCIDE CONSTRUCTION PROCESS AND ARCHES DOMES CONCRETE TRANSLUCIDE (Machine translation)

Abstract: Source: FR1243793A [FR] (Claim 1) les dalles, voutes, coupoles traditionnelles peuvent etre construites quelle que soit leur portee.

Machine translation: (Claim 1) tiles, arches, domes can be built traditional whatever their scope.

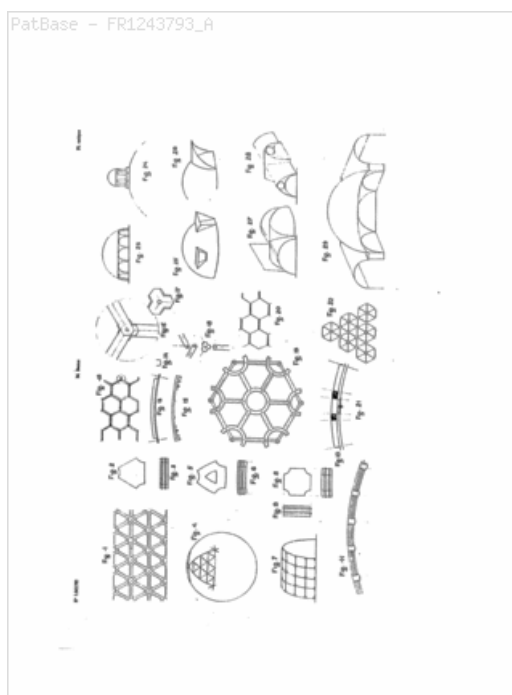
Classifications:

International (IPC 8-9): E04B5/46 E04B7/10 (Advanced/Invention); E04B5/46 E04B7/10 (Core/Invention)

International (IPC 1-7): E04B1/32 E04B5/46

CPC: E04B5/46 E04B7/105

European: E04B5/46 E04B7/10C



Family:

Publication number	Publication date	Application number	Application date
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FR1243793 A	19601014	FR19590814903	19591221
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Priority:

FR19590814903 19591221

Inventor(s): (std):

BERNA HENRI