

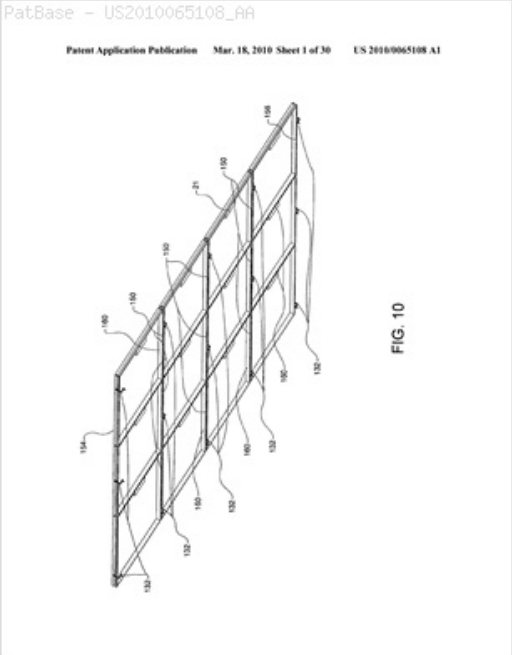
Search history

Search 1: FT=(modular and system and (cover or spaces) and tent and hole) (Results 550)

Search 2: FT=(modular and cover and tent and hole) and IC=(E04B) (Results 64)

1) Family number: 42380056 (US2010065108A)
Title: METHOD AND APPARATUS FOR FORMING AND MOUNTING A PHOTOVOLTAIC ARRAY

Abstract:
Source: US2010065108A A photovoltaic (PV) module framing and coupling system enables the attachment of PV modules to a roof or other mounting surface without requiring the use of separate structural support members which attach directly to and span between multiple PV modules in a formed PV array. The inventive apparatus provides a one-piece coupling for interlocking the sides of PV modules together to form an array, resulting in a parallel beam support system. The inventive coupling member attaches to the frame at substantially any position along the length of the frame, and interlocks the photovoltaic module with adjacent photovoltaic modules. The inventive apparatus further includes a novel bracket member which attaches to a surface of the frame member and secures the frame member directly to a roof or other mounting surface.



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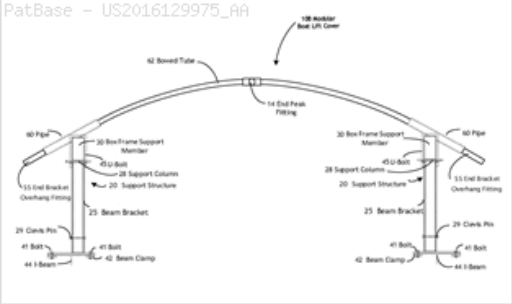
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Assignee(s): MANANSALA CHRISTINA C ; HAENLEIN HANS CHRISTOPH ; HIGH SUN TECHNOLOGY INC
Inventor(s): (std): ALCHLEY BRIAN ; ATCHLEY BRIAN ; COLEMAN NATHANIEL TAYLOR ; GRUBER PETER EDWARD ; HAENLEIN HANS CRISTOPH ; HUDSON TYRUS ; HUDSON TYRUS HAWKES ; JOHANSEN EMIL ; WEST JOHN RAYMOND ; YOUMANS DAVID ; WEST JOHN R ; MANSALA CHRISTAIN C ; MANANSALA CHRISTINA C ; HAENLEIN HANS CHRISTOPHER ; HAENLEIN HANS CHRISTOPH ; BRIAN WEST ; JOHN R WEST ; HANS CHRISTOPH HAENLEIN ; COLEMAN NATHANIEL ; CHRISTINA C MANANSALA ; WEST BRIAN ; WEST JACK RAYMOND
Inventor(s): WEST JOHN ; JOHN RWEST ; MANANSALA CHRISTINA
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

2) Family number: 61750954 (US2016129975A)
Title: MODULAR BOAT LIFT COVER

Abstract:

Source: US2016129975A The modular boat lift cover for a watercraft comprises a gable assembly and an adjustable support structure. All of the straight components are packaged into the main box frame channels for simplicity in packaging as well as quality control, ensuring no components are missing during packaging and shipping. The box frame channels have sufficient bulk to store the gable components during transport. The modular boat lift cover system has a robust, lightweight design that is compatible and adjustable for width, height and length as the boat owner modifies his existing boat or purchases a new boat, and that will protect the watercraft from the elements and will withstand even the severest of storms, undamaged as well as having the ability to be cantilevered. The modular boat lift cover is easy for the user to assemble and adjust on square lake style boat lifts, and the typically non-square tidal lifts.



International class (IPC 8-9): B63B17/02 B63C1/12 E04B1/32 E04B1/34 E04B1/343 E04B7/02 E04H15/00 E04H15/04 E04H15/18 E04H15/32 E04H15/36 E04H15/40 E04H15/44 E04H15/54 E04H15/64 (Advanced/Invention); B63C3/00 E04H15/40 (Advanced/Non-invention)
CPC: E04H15/36 E04H15/54 E04H15/64 E04H15/40 B63C3/00 E04H15/18 E04H15/32 E04H15/00 E04H15/34 E04H15/44 E04H15/644 E04H15/04 B63C1/12 E04B1/34 E04B7/022 E04B1/3205 E04B1/34326 E04B2001/3235 B63B17/02
US class: 1/1 135/124
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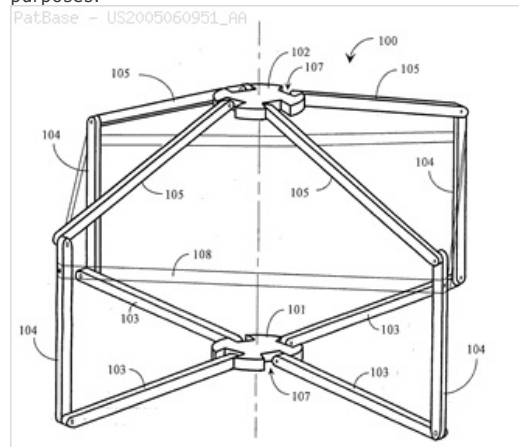
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US9487271 BB	20161108	US20160996614	20160115

Priority: US20140077522P 20141110; US20150636409 20150303; US20160996614 20160115; US20160341213 20161102; US20170598636 20170518;

Cited documents: US988400 A, US9272754 BA, US8602043 BB, US8082700 BB, US7950342 BB, US7353769 BB, US7296584 BB, US6846129 BA, US6505638 BA, US6397774 BA, US6367495 BA, US6141902 A, US6102059 A, US5775353 A, US5730281 A, US5579797 A, US5573026 A, US5526614 A, US5419273 A, US5185972 A, US5135018 A, US4683901 A, US4662132 A, US4091584 A, US3424178 A, US3195723 A, US2711180 A, US2015308143 AA, US2014331569 AA, US2014093346 AA, US2014026804 AA, US2013239872 AA, US2011290292 AA, US2007295379 AA, US2005252542 AA, US2005207850 AA, US2005194031 AA, US2005089375 AA, US2005016438 AA, US2004217030 AA,
Assignee(s): (std): CRAIG ERIC N
Inventor(s): (std): CRAIG ERIC N

3) Family number: 30739073 (US2005060951A)**Title:** FOLDABLE, EXPANDABLE FRAMEWORK FOR A VARIETY OF STRUCTURAL PURPOSES**Abstract:**

Source: US2005060951A A foldable, deployable framework for a structure has a lower hub having a first central axis, sets of tracks, masts, and rafters connected pivotally to the lower hub, to one another, and to an upper hub in a manner that allows the framework to be folded into one, two or three small packages, and to be deployed into a structural frame supporting floors, walls, and roof for an enclosed structure. In different versions folding and deployment is accomplished in a different way. Structures based on the framework can be made for many and varied purposes.



International class (IPC 8-9): B63B7/02 E04B1/19 E04B1/32 E04B1/343 E04B1/344 E04B7/08 E04C3/38 E04H1/12 E04H12/18 E04H15/36 E04H15/48 E06B3/92 F02F1/00 F16S3/04 G06F13/00 G06F15/16 G06Q10/00 G06Q10/10 G06Q50/00 G06Q50/22 G06Q50/24 G06Q99/00 H04N7/16 (Advanced/Invention); E04B1/00 (Advanced/Non-invention); E04H (Subclass/Invention)

International class (IPC 1-7): E04B1/32 E04B7/08 E04C3/38 E04H15/36 E04H15/48 F02F1/00

CPC: E04B1/34305 E04B1/3441 E04B1/3448 E04B2001/0053 E04B2001/0092 E04H1/1277 E04H15/48 E06B3/92 G06Q50/22 G06Q10/10 G06Q10/101 G06Q50/24 Y02A90/22

European class: E04B1/343B E04B1/344B E04B1/344E E04H1/12F E04H15/48 E06B3/92 G06Q10/10 G06Q10/101 G06Q50/22 G06Q50/24 P04B1/00S P04B1/00S6H

US class: 135/126 135/128 135/129 135/135 135/137 135/147 52/64 52/641 52/641P 52/645 52/646 52/79.5 526/410 705/3 705/300 705/300S 705/3P 709/206 709/206S 726/30 726/30S

Family:

Publication number	Pub. date	Application number	App. date
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IN224140 B	20081003	IN2005KN01712	20050829
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NZ543079 A	20071130	NZ20040543079	20040309
RU2342508 C2	20081227	RU20050128043	20040309
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US2010256994 AA	20101007	US20100817779	20100617
US6766623 BA	20040727	US20030392148	20030318
US7152614 BB	20061226	US20040861746	20040603
US7290378 BB	20071106	US20050032392	20050110
US9747652 BB	20170829	US20100817779	20100617
WO04083563 A2	20040930	WO2004US07256	20040309
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ZA200508384 A	20070425	ZA20050008384	20051017

Priority: EP20040718867 20040309; US20030392148 20030318; US20040861746 20040603; US20100817779 20100617; WO2004US07256 20040309; US20050032392 20050110; US20050032391 20050110;

Cited documents: US6929017 BB, US6766623 BA, US6748962 BB, US6748962 BA, US6520195 BA, US6520195, US6516823 BA, US6354316 BA, US6156823 A, US6021795 A, US5921260 A, US5918615 A, US5794640 A, US5448867 A, US5423341 A, US5421356 A, US4998552 A, US4787182 A, US4766918 A, US4473986 A, US4280521 A, US4256129 A, US3626958 A, US3590865 A, US3368575 A, US3213868 A, US3213868, US3099977 A, US3075257 A, US3017893 A, US2999507 A, US2982290 A, US2865387 A, US2547770 A, US2006155578 AA, US2005060951 AA, US2005010442 AA, US2003024562 AA, US2002059948 AA, US2001015218 AA, US2001007260 AA, US1853367 A, US1402077 A, US06520195, US03213868, JP58046624 B4, JP58046624 B2, JP56056487 U1, JP56056487 U, JP5083234 U, JP5083234 U, JP2003141262 A2, JP2002108709 A2, JP2001003451 A2, JP2001003451, JP2000352206 A2, JP2000352206, FR2842401 A1,

Assignee(s): (std); KALNAY PETER ; KALNAY PETER A ; PETER KALNAY ; KALNAY PETER ANDRES ; PETER A KALNAY ; KALNEHJ PITER A ; EISENBERGER GEORGE ; IBM ; RICHARDS II THOMAS L ; MCCULLOCH III EDGAR H

Assignee(s): INT BUSINESS MACHINES CORP ; KALNAY PETER A CUPERTINO

Inventor(s): (std); EISENBERGER GEORGE ; KALNAY PETER A ; MCCULLOCH III EDGAR H ; RICHARDS II THOMAS L ; KALNEHJ PITER A ; KALNAY PETER ANDRES

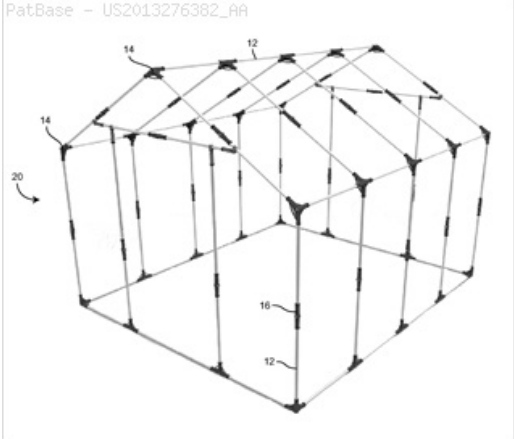
Inventor(s): PETER A KALNAY ; KALNAY PETER A CUPERTINO ; KALNAY PETER

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

4) Family number: 55003704 (US2013276382A)
Title: MODULAR FRAME AND STRUCTURE SYSTEM

Abstract:

Source: US2013276382A A modular frame and structure system and method includes a framework and a cover coupled to the framework and configured to provide a desired structure. The framework includes a plurality of elongated frame members, and a plurality of coupling members for coupling the elongated frame members. One or more of the coupling members includes a releasable connecting device having a connecting mode for connecting the coupling members to the frame members and form the framework, the releasable connecting device having a release mode for disconnecting the elongated frame members from the coupling members. The cover includes one or more interlocking wall panels configured to engage and be supported by the elongated frame members, and one or more interlocking roof panels configured to engage and be supported by the elongated frame members.



International class (IPC 8-9): E04B1/343 E04H1/00 E04H15/18 E04H15/32 E04H15/34 E04H15/44 E04H15/54 E04H15/56 E04H15/64 (Advanced/Invention); E04H15/00 E04H15/14 (Advanced/Non-invention)

CPC: E04H15/008 E04H15/14 E04H15/18 E04H15/32 E04H15/34 E04H1/005 E04H15/54 E04H15/64 E04B1/34315 E04B1/34384 E04H15/44 E04H15/56

US class: 1/1 52/204.5 52/474 52/63 52/646 52/79.5

Family:

Publication number	Pub. date	Application number	App. date
US2013276382 AA	20131024	US20130782654	20130301
US2016215512 AA	20160728	US20160091455	20160405
US9303426 BB	20160405	US20130782654	20130301
US9771729 BB	20170926	US20160091455	20160405

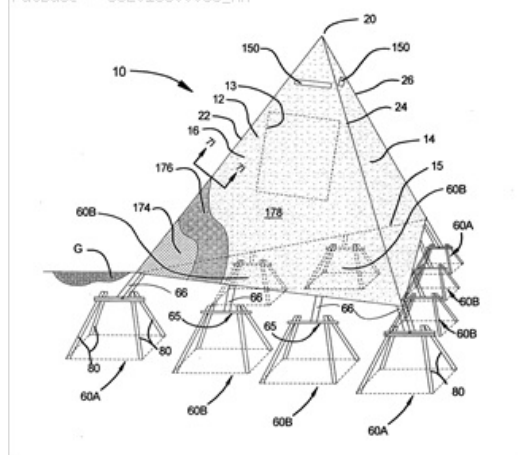
Priority: US20120606172P 20120302; US20130782654 20130301; US20160091455 20160405;

Cited documents: US9303426 BB, US7637053 BA, US7448400 BB, US7341391 BB, US6871614 BB, US6871452 BB, US6832455 BA, US6766623 BA, US6708455 BA, US6578593 BB, US6345638 BA, US6155280 A, US5790992 A, US5671766 A, US5660002 A, US5598668 A, US5479744 A, US5439309 A, US5390689 A, US5335618 A, US5293725 A, US5274980 A, US5230196 A, US5150980 A, US5078096 A, US5056291 A, US5000211 A, US4928425 A, US4882884 A, US4800842 A, US4603853 A, US4548351 A, US4446666 A, US4193413 A, US4129975 A, US4066089 A, US4057941 A, US3974600 A, US3886961 A, US3877824 A, US3807421 A, US3773061 A, US3441037 A, US3432609 A, US2719384 A, US2168913 A, US2010326485 AA, US2010221974 AA, US2009038237 AA, US2007039247 AA, US2006130410 AA, US2005103279 AA, EP0580929 A1, Assignee(s): (std): AYALA GERARDO D ; BARE BONES SYSTEMS LLC ; BAREBONES SYSTEMS LLC ; HOWELL HENRY J ; WORKMAN TYLER SWAN ; WORKMAN JOHN E ; KRANTZ NORM ; WORKMAN ROBERT E Inventor(s): (std): WORKMAN TYLER SWAN ; WORKMAN ROBERT E ; WORKMAN JOHN E ; KRANTZ NORM ; HOWELL HENRY J ; AYALA GERARDO D

5) Family number: 60602770 (US2015300035A)**Title:** MODULAR SECURITY SYSTEM FOR ABOVE-GROUND STRUCTURES**Abstract:**

Source: US2015300035A A system of **modular** components for on-site assembly of a shelter for an above-ground structure to protect the structure from blast, wind, fire or other physical hazards. A pyramidal shelter with triangular or rectangular base is formed by joining side panels to each other. Each side panel includes a triangular frame **covered**, except at access hatch, observation port and door openings, with either steel plate or diamond steel mesh to which blast-resistant, fire-resistant or other kinds of coatings or panels are applied. A corner anchor assembly to support each corner of a shelter has a lower plate, an overlying split plate, and a pair of upstanding, anchor rods attached to the split plates for insertion into hollow, lower portions of side beams of adjacent side panels. The corner anchor assemblies facilitate expansion of an assembled shelter by addition of more **modular** components.

PatBase - US2015300035_AA



International class (IPC 8-9): E04B1/08 E04B1/343 E04B1/41 E04B1/61 E04B1/94 E04B1/98 E04B2/58 E04B7/02 E04H1/12 E04H15/00 E04H15/24 E04H15/34 E04H15/60 E04H9/02 E04H9/10 E04H9/14 F41H5/24 (Advanced/Invention); E04B1/00 E04H15/24 (Advanced/Non-invention)

CPC: E04H9/10 E04H9/028 E04H9/14 E04B2001/0069 E04H1/1205 E04H15/008 E04H15/24 E04H15/34 E04H15/60 F41H5/24 E04H9/024 E04B1/08 E04B1/61 E04B1/942 E04B1/98 E04B2/58 E04B1/34321 E04B1/40 E04B2001/0084 E04B2001/6195 E04B2103/06

US class: 1/1 52/125.2 52/166 52/19 52/27 52/745.12 52/90.1

Family:

Publication number	Pub. date	Application number	App. date
US2015300035 AA	20151022	US20140121037	20140722
US2016376804 AA	20161229	US20160999814	20160701
US2016376805 AA	20161229	US20160999818	20160701
US9382721 BB	20160705	US20140121037	20140722
US9745769 BB	20170829	US20160999818	20160701

Priority: US20130958513P 20130729; US20140121037 20140722; US20160999814 20160701; US20160999818 20160701;

Cited documents: US9303426 BB, US8071206 BA, US7736729 BB, US7600348 BA, US7497048 BB, US6861151 BA, US6833012 BB, US6814765 BA, US6689470 BA, US6656239 BA, US6656238 BA, US6412231 BA, US6151841 A, US6131343 A, US5930961 A, US5867947 A, US5400541 A, US5297012 A, US490779 A, US4838293 A, US4838292 A, US4265261 A, US4258514 A, US2876872 A, US2282433 A, US2015159393 AA, US2011197746 AA, US2010107938 AA, US2010107547 AA, US2010107545 AA, US2010107518 AA, US2008283106 AA, US2007039639 AA, US2007000183 AA, US2005257479 AA, US2004177568 AA, US2002083651 AA, US2002046515 AA, US1672306 A,

Assignee(s): (std): HERMSDORF HORST G ; MORTA STEVEN P

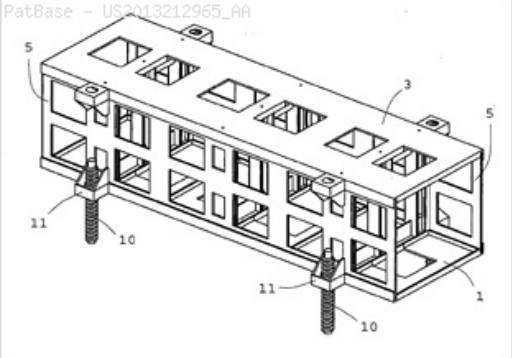
Inventor(s): (std): MORTA STEVEN P ; HERMSDORF HORST G

6) Family number: 50961782 (US2013212965A)

Title: ASSEMBLABLE DISPOSABLE SHUTTERING FOR CONSTRUCTING MODULAR FORMWORKS FOR MAKING CONCRETE FOUNDATIONS

Abstract:

Source: US2013212965A Assemblable disposable shuttering, for constructing modular formworks suitable for making foundations, said shuttering substantially configured as the lateral surface of a parallelepiped, having on the lateral faces a plurality of openings suitable toe release, during the filling casting, a part of the cement mixture into the foundation trench.



International class (IPC 8-9): E02D27/01 E02D27/02 E02D27/32 E04B1/16 E04B2/00 E04C2/34 E04C3/00 E04G13/00 (Advanced/Invention); E04G13/00 (Advanced/Non-invention); E04G13/00 (Core/Invention)

International class (IPC 1-7): E02D27/01 E02D27/02 E04G13/00

CPC: E02D27/013 E04B1/167 E04G13/00

European class: E04G13/00

US class: 1/1 52/294

Family:

Publication number	Pub. date	Application number	App. date
AP201306865 A0	20130531	AP20130006865	20110513
AP3328 A	20150630	AP20130006865	20110513
AU2011319442 AA	20120426	AU20110319442	20110513
AU2011319442 BB	20160915	AU20110319442	20110513
BR112013009437 A2	20160809	BR20131109437	20110513
CA2814137 AA	20130409	CA20112814137	20110513
CN103237942 A	20130807	CN201180050379	20110513
CN103237942 B	20160217	CN201180050379	20110513
CO6710953 A2	20130715	CO20130122299	20130517
CR20130218 A	20130705	CR20130000218	20130514
CU20130056 A7	20130731	CU20130000056	20130419
DE602011012539 D1	20150219	DE201160012539T	20110513
DK2630306 T3	20150330	DK20110728073T	20110513
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GT201300101 A	20140805	GT20130000101	20130419
IN04399DN2013 A	20160610	IN2013DN04399	20130516
IT1408522 B1	20140627	IT2010FI00214	20101020
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MA34667 B1	20131102	MA20130035905	20130514
MX2013004484 A1	20130702	MX20130004484	20110513
PE00622014 A1	20140130	PE20130000879	20110513
PT2630306 T	20150407	PT20110728073T	20110513
TN2013000156 A1	20141110	TN20130000156	20130410
US2013212965 AA	20130822	US20110879640	20110513
US9045877 BB	20150602	US20110879640	20110513
VN16054 A1	20161125	VN20130001528	20110513
WO12053021 A1	20120426	WO2011IT00149	20110513

Priority: EP20110728073 20110513; IT2010FI00214 20101020; WO2011IT00149 20110513;

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Assignee(s): (std): FABRIZIO MARTIGLI ; MADDALENA MARTIGLI ; MARTIGLI ; MARTIGLI FABRIZIO ; MARTIGLI MADDALENA ; MARTIGLI MASSIMO ; SERAFINI MONICA ; MONICA SERAFINI ; SERAFINI

Assignee(s): MARTIGLI MASSIMO DECEASED

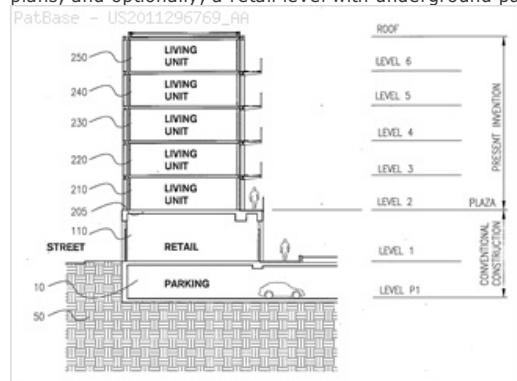
Inventor(s): (std): MARTIGLI FABRIZIO ; MARTIGLI MADDALENA ; MARTIGLI MASSIMO ; SERAFINI MONICA ; MARTIGLI MASSIMO FALLECIDO ; MASSIMO MARTIGLI

Inventor(s): MASSIMO MARTIGLI FALECIDO ; FABRIZIO MARTIGLI ; MADDALENA MARTIGLI ; MARTIGLI MASSIMO DECEASED ; MONICA SERAFINI

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 RO RS RU 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

7) Family number: 50071814 (US2011296769A)**Title:** PREMANUFACTURED STRUCTURES FOR CONSTRUCTING BUILDINGS**Abstract:**

Source: US2011296769A The present premanufactured structures for constructing buildings comprises a construction system for an energy efficient multi-story building with a plurality of standard single or mixed units. The multi-story building is constructed using premanufactured structures comprising: a plurality of non-weight bearing walls, the plurality of non-weight bearing walls with finished exterior including all electrical, insulating, plumbing and communications components that are premanufactured at a site distant from a building site, and the plurality of non-weight bearing walls are attached to a plurality of floor and ceiling slabs and interfacing with each other to enclose the plurality of units of the building; a plurality of interior components that are premanufactured at the site distant from the building site to connect to inside portions of the non-weight bearing walls; and a plurality of exterior components that are premanufactured at the site distant from the building site to attach to exterior surfaces of the building. The plurality of non-weight bearing walls, the plurality of interior components, and the plurality of exterior components are installed and connected together to provide the energy efficient multi-story building with the plurality of units with different floor plans, and optionally, a retail level with underground parking.



International class (IPC 8-9): B23P11/00 E04B1/00 E04B1/18 E04B1/19 E04B1/24 E04B1/343 E04B1/348 E04B1/35 E04B1/38 E04B1/66 E04B1/70 E04B1/74 E04B1/94 E04B2/28 E04B2/40 E04B2/56 E04B2/58 E04B2/72 E04B2/74 E04B2/82 E04B2/90 E04B5/48 E04C2/00 E04C2/52 E04F13/08 E04F13/12 E04G21/00 E04G23/00 E04H1/00 E04H1/04 E04H1/06 E04H14/00 E04H3/00 E04H5/00 E04H6/00 (Advanced/Invention);

E04B2/74 E04B2/82 E04F13/08 E04H1/04 E04H3/08 (Advanced/Non-invention)

CPC: E04B2/72 E04C2/52 E04B1/003 Y10T29/49826 E04B2/7411 E04B2/82 E04B2/825 E04B2001/2481 E04B2001/2484 E04B2001/2496 E04F13/0826 E04F13/12 E04H3/08 E04B2/58 E04B2/28 E04B1/66 E04B1/94 E04B1/946 E04B1/74 Y02B30/94 E04B1/18 E04B1/343 E04C2/00 E04B2/7448 E04B2/90 E04F13/08 E04H1/06 E04B2/56 E04B1/945 E04B1/941 E04B1/948 E04B2/40 E04B1/34807 E04B1/3511 E04B1/3516 E04B1/24 E04B1/34869 E04H3/02 E04H1/04 Y02A30/261

European class: E04B1/00D E04B1/24 E04B2/74C4 E04B2/82 E04B2/90 E04B5/48 E04C2/52A E04F13/08B2C8F E04F13/12 E04H1/04 E04H1/06 P04B1/24D P04B1/24E P04B2/74C2F P04F13/08

US class: 1/1 29/428 29/428S 52/125.1 52/173.1 52/173.100S 52/220.1 52/220.100P 52/220.100S 52/220.2 52/234 52/236.3 52/279 52/283 52/302.1 52/302.100S 52/309.1 52/404 52/404.1 52/479 52/741.3 52/741.4 52/741.400P 52/745.02 52/745.1 52/745.100S 52/745.13 52/745.130S 52/745.16 52/745.2 52/745.200S 52/745.21 52/745.210S 52/79.1 52/79.100P 52/79.5

Family:

Publication number	Pub. date	Application number	App. date
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US2011296769 AA	20111208	US20100796603	20100608
US2011296778 AA	20111208	US20110155319	20110607
US2011296789 AA	20111208	US20100796625	20100608
US2013067832 AA	20130321	US20110700429	20110607
US2014069035 AA	20140313	US20130077565	20131112
US2015211227 AA	20150730	US20150616460	20150206
US2016312462 AA	20161027	US20160201167	20160701
US2017037613 AA	20170209	US20160299163	20161020
US8701371 BB	20140422	US20100796625	20100608
US8950132 BB	20150210	US20100796603	20100608
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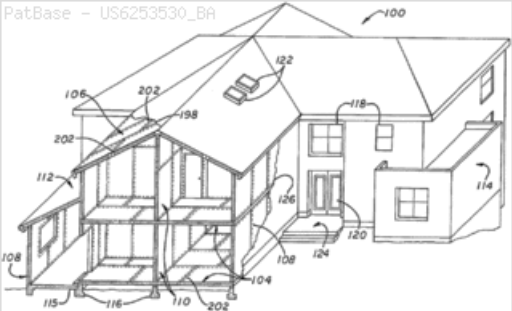
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Cited documents: WOPW30060, WO9722770, WO9107557 A1, WO10037938 A2, WO10030060, WO07059003, WO0235029 A1, WO0058583, USRE39462 E, US9027307 BB, US8997424 BA, US8978324 BB, US8950132 BB, US8769891 BB, US8733046 BB, US8621806 BB, US8555589 BB, US8555581 BB, US8539732 BB, US8505259 BA, US8490349 BB, US8424251 BB, US8359808 BB, US8322086 BB, US8276328 BB, US8251175 BA, US8234833 BB, US8166716 BB, US8109058 BB, US8051623 BB, US7966778 BB, US7921965 BA, US7908810 BB, US7748193 BB, US7721491 BB, US7694462 BB, US7676998 BB, US7658045 BB, US7574837 BB, US7484339 BB, US7484329, US7467469 BB, US7444793 BB, US7395999 BB, US7389620 BA, US7143555 BB, US7059017 BA, US7007343 BB, US6922960 BB, US6837013 BB, US6748709 BA, US6729094 BA, US6651393 BB, US6625937 BA, US6484460 BB, US6481172 BA, US6446396 BA, US6430883 BA, US6393774 BA, US6371188 BA, US6340508 BA, US6308491 BA, US6308465 BA, US6301838 BA, US6289646 BA, US6260329 BA, US6244008 BA, US6244002 BA, US6243993 BA, US6170214 B1, US6154774 A, US6086350 A, US6076319 A, US6073413 A, US6073401 A, US6055787 A, US6000194 A, US5997792 A, US5992109 A, US5987841 A, US5921041 A, US5870867 A, US5867964 A, US5850686 A, US5755982 A, US5746034 A, US5724773 A, US5699643 A, US5697189 A, US5678384 A, US5660017 A, US5628158 A, US5592796 A, US5528877 A, US5519971 A, US5509242 A, US5493838 A, US5471804 A, US5459966 A, US5412913 A, US5402612 A, US5361556 A, US5359820 A, US5307600 A, US5233810 A, US5205091 A, US5185971 A, US5127203 A, US5079890 A, US5076310 A, US4991368 A, US4919164 A, US4856244 A, US4757663 A, US4688750 A, US4655011 A, US4646495 A, US4528793 A, US4513545 A, US4507901 A, US4477934 A, US4447996 A, US4441286 A, US4435927 A, US4397127 A, US4361994 A, US4341052 A, US4327529 A, US4325205 A, US4314430 A, US4280307 A, US4226061 A, US4221441 A, US4214413 A, US4178343 A, US4176504 A, US4171545 A, US4142255 A, US4107886 A, US4078345 A, US4050215 A, US4038796 A, US3974618 A, US3971605 A, US3926486 A, US3921362 A, US3906686 A, US3853452 A, US3845601 A, US3823520 A, US3821818 A, US3766574 A, US3762115 A, US3755974 A, US3751864 A, US3742666 A, US3727753 A, US3722169 A, US3721056 A, US3713265 A, US3707165 A, US3638380 A, US3604174 A, US3594965 A, US3590393 A, US3579935 A, US3490191 A, US3460302 A, US3411252 A, US3388512 A, US3315424 A, US3281172 A, US3245183 A, US3236014 A, US3221454 A, US3184893 A, US3065575 A, US3053509 A, US3053015 A, US3052449 A, US3017723 A, US2871997 A, US2871544 A, US2866420 A, US2562050 A, US2495862 A, US2419319 A, US2160161 A, US2015096251 AA, US2014130441 AA, US2014083046 AA, US2014069050 AA, US2014069040 AA, US2014069035 AA, US2014059960 AA, US2014047780 AA, US2014013695 AA, US2014013678 AA, US2013133277 AA, US2013111840 AA, US20131067832 AA, US2013036688 AA, US2013025222 AA, US2012151869 AA, US2011300386 AA, US2011296789 AA, US2011296778 AA, US2011296769 AA, US2011268916 AA, US2011162167 AA, US2011113709 AA, US2011056147 AA, US2011023381 AA, US2010325989 AA, US2010325971 AA, US2010263308 AA, US2010235206 AA, US2010229472 AA, US2010218443 AA, US2010212255 AA, US2010186313 AA, US2010146874 AA, US2010064601 AA, US2009293395 AA, US2009205277 AA, US2009165399 AA, US2009134287 AA, US2009113820 AA, US2009107065 AA, US2009100769 AA, US2009090074 AA, US2009077916 AA, US2009038764 AA, US2009031652 AA, US2008295450 AA, US2008289265 AA, US2008282626 AA, US2008202048 AA, US2008178542 AA, US2008168741 AA, US2008104901 AA, US2008057290 AA, US2007294954 AA, US2007209306 AA, US2007163197 AA, US2007157539 AA, US2007107349 AA, US2007074464 AA, US2006248825 AA, US2006179764 AA, US2006137293 AA, US2006117689 AA, US2006096202 AA,

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Assignee(s): (std): COLLINS ARLAN ; COLLINS ARLAN E ; INNOVATIVE BUILDING TECH LLC ; INNOVATIVE BUILDING TECHNOLOGIES LLC ; SUSTAINABLE LIVING TECHNOLOGY LLC ; WOERMAN MARK L ; WOERMAN MARK
Inventor(s): (std): WOERMAN MARK L ; COLLINS ARLAN E ; WOERMAN MARK ; COLLINS ARLAN
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 RO RS RU 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

8) Family number: 15420449 (US6253530B)
Title: STRUCTURAL HONEYCOMB PANEL BUILDING SYSTEM

Abstract:
Source: US6253530B A structural honeycomb panel building system including fabrication methods and equipment provides integrated, modular structural components such as floors, walls, ceilings, trusses and roof members that can replace materials conventionally used in frame buildings. The panels are substantially impervious to moisture and other environmental hazards and may be inexpensively fabricated and assembled at the building site. The structural panels are fabricated, oriented depending upon the load bearing characteristics of each individual panel, interfitted and assembled to provide an assembly of structural panels with predetermined load bearing properties.



International class (IPC 8-9): E04B1/12 E04B7/20 E04C2/36 E04C3/28 (Advanced/Invention);
E04B1/00 E04B1/61 (Advanced/Non-invention);
E04B1/02 E04B7/00 E04C2/34 E04C3/02 (Core/Invention);
E04B1/00 E04B1/61 (Core/Non-invention)
International class (IPC 1-7): E04B1/00 E04C2/30
CPC: E04B1/12 E04B1/6145 E04B7/20 E04B2001/2684 E04C2/365 E04C3/28 Y10T428/24149
European class: E04B1/12 E04B7/20 E04C2/36B E04C3/28 P04B1/26B40A P04B1/61D3C
US class: 156/71 156/920 428/116 52/270 52/309.14 52/592.1 52/793.1 52/794.1 527/931
Family:

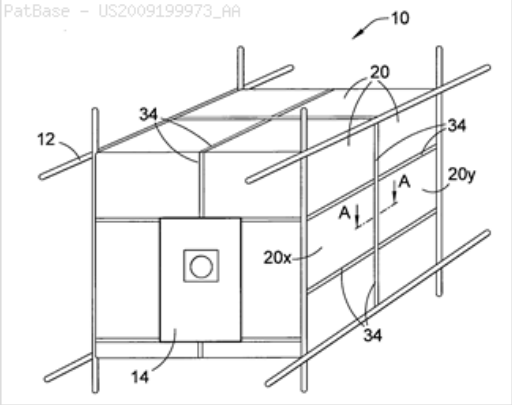
Publication number	Pub. date	Application number	App. date
US6253530 BA	20010703	US19970916900	19970825

Priority: US19950535315 19950927; US19970916900 19970825;

Cited documents: US5305577 A, US5209805 A, US4841710 A, US4603531 A, US4340682 A, US4294055 A, US4150175 A, US3420023 A,
Assignee(s): PRICE TRACY ; TIMBROOK ROBERT L
Inventor(s): (std): PRICE TRACY ; TIMBROOK ROBERT L

9) Family number: 33301938 (US2009199973A)
Title: PANEL

Abstract:
Source: US2009199973A The present invention relates to a panel (20) for use in the assembly of a modular hot work habitat (10) so as to form an enclosure to facilitate hot working. The panels (20) comprise a first layer of flexible structural material (22), and a second layer of flexible fireproof material (24) fixed to the structural layer. A habitat (10) comprising a plurality of interconnected panels (20) is described.



International class (IPC 8-9): B23K9/32 B32B5/12 B32B5/26 B32B7/00 B32B7/12 E04B1/12 E04B1/94 E04C2/02 E04H15/54 E06B9/38 (Advanced/Invention); B32B5/22 B32B7/12 E04B1/94 E04C2/02 E04H15/32 E06B9/38 (Core/Invention)
CPC: B32B7/005 E04C2/02 E04B1/94 E04H15/54 Y10T428/2476 Y10T428/31663 B32B27/12 E04B1/942 B32B5/12 E04B1/12 B32B5/26 B32B5/02 B32B7/12 B32B2255/02 B32B2255/26 B32B2307/3065 B32B2607/00 B23K9/321
European class: B32B27/12 E04B1/94B1 E04C2/02
US class: 135/115 135/87 135/87S 160/19 160/19P 428/190 428/190S 428/447 428/447S 428/78 52/2.17 52/222 52/273 52/588.1 52/63 52/784.1 52/784.11 52/787.11
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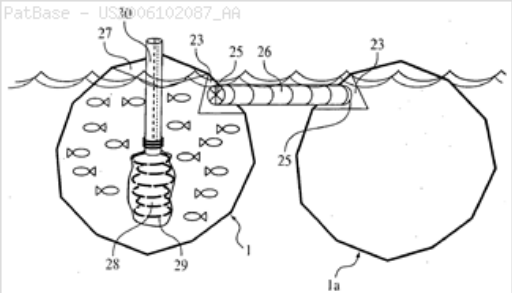
Publication number	Pub. date	Application number	App. date
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CA2655773 AA	20081219	CA20072655773	20070620
GB200612266 A0	20060802	GB20060012266	20060621
GB2439316 A1	20071227	GB20060012266	20060621
GB2439316 B2	20101124	GB20060012266	20060621
MY147540 A	20121231	MY20080005205	20070620
NO20090319 A	20090120	NO20090000319	20090120
NO20090319 L	20090120	NO20090000319	20090120
NO340345 B1	20170403	NO20090000319	20090120
US2009199973 AA	20090813	US20070305866	20070620
US2013284223 AA	20131031	US20130847403	20130319
US8397439 BB	20130319	US20070305866	20070620
US8667743 BB	20140311	US20130847403	20130319
WO07148075 A1	20071227	WO2007GB02284	20070620

Priority: GB20060012266 20060621; US20070305866 20070620; WO2007GB02284 20070620; US20090305866 20090211; US20130847403 20130319;

Cited documents: WO05118973 A1, WO0218692 A2, WO0120088 A2, US8397439 BB, US7897235 BA, US7189349 BB, US7091848 BB, US6013586 A, US5685771 A, US5660916 A, US5032447 A, US5018321 A, US4583331 A, US4500592 A, US4467005 A, US4433700 A, US3991583 A, US3715843 A, US3452764 A, US3318063 A, US3307306 A, US227934 A, US2006260271 AA, US2005136760 AA, US2005013676 AA, US2004074155 AA, US2002053176 AA, JP11062051, EP1541338 A1, EP1154138 A2, EP0609600 A1, DE4304079 C1, DE29515205 U1, DE29515205, CN1384268 A, Assignee(s): (std): SAFEHOUSE HABITATS ; SAFEHOUSE HABITATS SCOTLAND LT ; SAFEHOUSE HABITATS SCOTLAND LTD ; WATTERS PHILIP GRAHAM Assignee(s): SAFEHOUSE HABITATS (SCOTLAND) LTD ; SAFEHOUSE HABITATS LTD ; SAFEHOUSE HABITATS SCOTLAND LIMITED Inventor(s): (std): GRAHAM WATTERS PHILIP ; WATTERS PHILIP GRAHAM Inventor(s): PHILIP GRAHAM WATTERS Designated states: AE AG AL AM 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 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 ZA ZM ZW

10) Family number: 32887877 (US2006102087A)
Title: CONTAINMENT PENS FOR FINFISH AQUACULTURE

Abstract:
Source: US2006102087A A containment pen for finfish aquaculture, comprising a supporting structure, a net attached to the supporting structure and defining a containment volume for containing finfish, wherein the net comprises a plurality of removable net panels, wherein each of the removable net panels comprises a discrete piece of flexible netting attached along its perimeter to one or more substantially rigid members, and wherein the removable net panels are configured to be removable from the containment pen with the piece of flexible netting remaining attached to the substantially rigid members.



International class (IPC 8-9): A01K A01K61/00 A01K61/60 A01K61/90 A01K63/00 A01K71/00 E04B1/32 E04B1/35 F16M11/24 (Advanced/Invention);
A01K61/00 F16M11/24 (Advanced/Non-invention);
A01K61/00 A01K63/00 F16M11/20 (Core/Invention);
A01K (Subclass/Invention)

International class (IPC 1-7): A01K61/00
CPC: E04B2001/3276 E04B2001/3294 E04B2001/3583 A01K61/90 A01K79/00 A01K61/60 Y02A40/826
European class: A01K61/00F P04B1/32P1 P04B1/32S P04B1/35T
US class: 1/1 119/215 119/219 119/223 119/226 119/228
Family:

Publication number	Pub. date	Application number	App. date
AT540577 E	20120115	AT20050815661T	20051028
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AU2005302222 BB	20110623	AU20050302222	20051028
AU2006236485 AA	20061026	AU20060236485	20060414
AU2006236485 BB	20130131	AU20060236485	20060414
BRPI0518232 A2	20081111	BR2005PI18232	20051028
BRPI0518232 B1	20141111	BR2005PI18232	20051028
CA2585661 AA	20070427	CA20052585661	20051028
CA2585661 C	20131008	CA20052585661	20051028
CA2605033 AA	20071015	CA20062605033	20060414
CN101052297 A	20071010	CN200580037507	20051028
CN101052297 B	20111228	CN200580037507	20051028
DE602005032200 D1	20120308	DE200560032200T	20051028
DK1806964 T3	20120410	DK20050815661T	20051028
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EP1868429 A2	20071226	EP20060758374	20060414
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ES2395165 T3	20130208	ES20050815661T	20051028
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MX2007004697 A1	20070803	MX20070004697	20051028
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PT1806964 T	20120306	PT20050815661T	20051028
US2006102087 AA	20060518	US20040976641	20041029
US2006288950 AA	20061228	US20060404383	20060414
US2008000429 AA	20080103	US20070851625	20070907
US2009266304 AA	20091029	US20090416062	20090331
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US7284501 BB	20071023	US20040976641	20041029
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WO6113619 A3	20070920	WO2006US14404	20060414

Priority: EP20050815661 20051028; US20040976641 20041029; US20050671861P 20050414; US20070851625 20070907;
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WO2005US39536 20051028; WO2006US14404 20060414; US20140176239 20140210; US20160184582 20160616;

Cited documents: WO9514374 A2, WO9306720 A1, WO9203921 A1, WO8912388 A1, WO8703170 A1, WO04073396 A1, US8683955 BB, US8651059 BB, US8468974 BB, US7617813 BB, US7316534 BB, US7284501 BB, US6679644 BA, US6628279 BA, US6520115 BB, US6481378 BA, US6386146 BA, US6282849 BA, US6216635 BA, US6145866 A, US5713303 A, US5704169 A, US5628279 A, US5617813 A, US5549076 A, US5438958 A, US5412903 A, US5299530 A, US5251571 A, US5207017 A, US5201571 A, US5172649 A, US4957064 A, US4380213 A, US4312296 A, US4257350 A, US4244323 A, US4054880 A, US3063521 A, US2011174232 AA, US2006102087 AA, US2006096548 AA, US1504880 A, US1054880 A, JPS60191173 U, JPS60191173, JPS5973175 U, JPS5973175, JPS5414998 U, JP9275856 A2, JP60191173 U1, JP60191173 U, JP60191173 A2, JP59073175 U1, JP59073175 U, JP59073175 A2, JP59073175 A2, JP54014998 U1, JP54014998 U, JP2006517107 T2, GB2078473 A1, GB2031251 A1, GB1436125 A, FR2533112 A1,

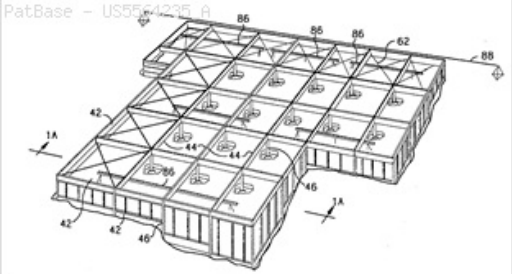
FR2531835 A1, EP1806964 A2, EP0060792 A1, CN86107981 A, CH86107981, CA2514053 AA, AU637128 B2, AU637128 A1,
Assignee(s): (std): CARTWRIGHT PAUL ; OCEAN FARM TECH INC ; OCEAN FARM TECHNOLOGIES ; OCEAN FARM TECHNOLOGIES INC ; PAGE STEPHEN H
Assignee(s): OCEAN FARM TECHNOLOGIES INC SEARSMONT ; OCEANOS LLC
Inventor(s): (std): PAGE STEPHEN H ; PAGE STEPHEN ; CARTWRIGHT PAUL
Inventor(s): PAGE STEPHEN H SEARSMONT ; PAUL CARTWRIGHT ; STEPHEN H PAGE
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
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11) Family number: 30220580 (US5564235A)

Title: FOUNDATION AND FLOOR CONSTRUCTION MEANS

Abstract:

Source: US5564235A A foundation structure comprises a plurality of light metal parts which assemble and secure in place prior to placement of foundation in situ concrete. Assemblage is supported by coarsely threaded rods which screw directly into earth and attach to parts by various methods. Some parts remain in place as permanent supporting members for superimposed structure. Others, which generally form surfaces of foundation concrete, subsequently relocate to become either similar permanent structural members, or inventory for subsequent projects. Use of a computer aided design program assists in optimal configuration of parts, and creates a list of parts with necessary cut and piecemark information for automated fabrication of any particular length parts. This information, along with a computer produced schematic plan, allows use of parts as collocation elements which define a distinct foundation design by simple field assembly. Variations in assemblage of parts accommodate requirements of site, user needs, and materials of subsequent structure. Specific versions offer an integral joist floor structure, a free standing wall, or a concrete slab on grade. Interface with subsequently superimposed walls is specific to those of either framed members, or concrete type materials.



International class (IPC 8-9): B28B7/22 E02D27/00 E02D27/02 E04B5/10 E04B5/14 E04G13/00 (Advanced/Invention);

E02D27/00 E04B5/10 E04B5/14 E04G13/00 (Core/Invention)

International class (IPC 1-7): B28B7/22 E01C7/00 E01C7/14 E02D20/00 E02D27/00 E02D27/32 E04B5/10 E04B5/17 E04G11/00

CPC: E02D27/02 Y10T16/536 E04B5/14 E02D27/00 E02D2220/00 E04B5/10 E04G13/00

European class: E02D27/00 E02D27/02 E04B5/10 E04B5/14 E04G13/00 P02D220/00

US class: 16/260 249/13 249/18 249/210 249/3 249/34 249/4 249/47 249/6 249/7 249/93 249/97 264/333 405/229 405/259.1 411/397 52/126.6 52/169.12 52/263 52/274 52/292 52/293.1 52/293.3 52/294 52/295 52/299 52/528 52/537 52/588.1 52/630 52/650.3 52/741.15 52/742.14 52/783.11 522/920 522/940

Family:

Publication number	Pub. date	Application number	App. date
AU199534189 A1	19960322	AU19950034189	19950828
AU199721311 A1	19970828	AU19970021311	19970211
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US6076320 A	20000620	US19970871395	19970609
US6120723 A	20000919	US19970831592	19970409
US6205725 BA	20010327	US19980201741	19981201
US6367764 BA	20020409	US19980185336	19981103
US6550213 BA	20030422	US19970831591	19970409
WO9606985 A1	19960307	WO1995US10951	19950828
WO9728939 A1	19970814	WO1997US02599	19970211

Priority: US19940299474 19940829; US19950398356 19950303; US19960013589P 19960315; US19970818497 19970314; US19970067741P 19971202; US19960600408 19960212; US19960022443P 19960805; US19960019551P 19960610; US19960015159P 19960410; WO1995US10951 19950828; WO1997US02599 19970211; US19980185336 19981103; US19970831592 19970409; US19980201741 19981201; US19970871395 19970609; US19970831591 19970409;

Cited documents: US5873689 A, US5830378 A, US5817247 A, US5664377 A, US5564235 A, US5402614 A, US5399050 A, US5366328 A, US5343667 A, US5240224 A, US5224321 A, US5205942 A, US5165213 A, US5154560 A, US4930278 A, US4843793 A, US4738061 A, US4699547 A, US4656797 A, US4630971 A, US4618291 A, US4573302 A, US4536115 A, US4533112 A, US4490958 A, US4464873 A, US4451022 A, US4340200 A, US4263762 A, US4258514 A, US4202145 A, US4142705 A, US4066237 A, US3977536 A, US3903626 A, US3826460 A, US3820295 A, US3810364 A, US3797800 A, US3785606 A, US3753323 A, US3397494 A, US3378968 A, US3262236 A, US3207465 A, US3176432 A, US2846749 A, US2835017 A, US2743602 A, US2731700 A, US2611169 A, US2490228 A, US2200636 A, US2144700 A, US1975815 A, US1897530 A, US1576846 A, US1512165 A, US1484398 A, SU1035172 T, JP6180063 A2, JP6116966 A2, JP6057761 A2, JP4228724 A2, JP4092021 A2, JP3199528 A2, GB2147635 A1, DE2829249 A1, CH293955 A, CA743322 A, CA1145179 A1, BE688535 A,

Assignee(s): (std): BUTLER MICHAEL ; BUTLER MICHAEL G ; MICHAEL BUTLER ; MICHAEL G BUTLER

Inventor(s): (std): BUTLER MICHAEL ; BUTLER MICHAEL G

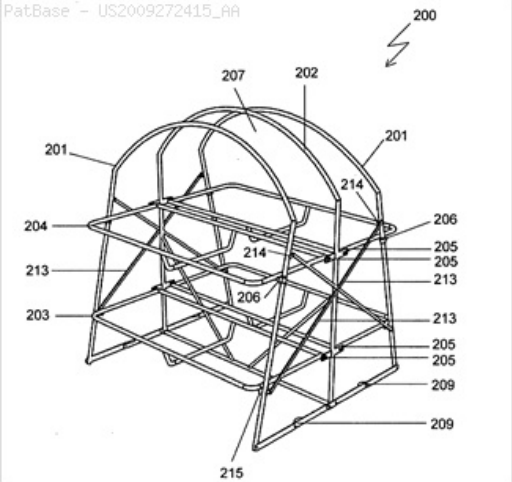
Inventor(s): MICHAEL BUTLER ; MICHAEL G BUTLER

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 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 TT UA US UZ VN

12) Family number: 43691840 (US2009272415A)
Title: MODULAR TENTS

Abstract:

Source: US2009272415A The present invention provides a modular, collapsible, multifunctional tent or shelter. Specifically, the tent is comprised of at least two interior structures with a central space between them that form a frame which can be covered by a fabric or similar material. Each interior structure is comprised of at least three vertical arches and two horizontal rectangular frames so as to form a tent structure with a built-in berth. The horizontal rectangular frames can be vertically collapsed to form a multifunctional space. A plurality of interior structures can be attached together to form different-sized shelters.



International class (IPC 8-9): A47C17/64 A47C17/70 A47C19/20 E04B1/00 E04H15/00 E04H15/34 E04H15/36 E04H15/44 (Advanced/Invention);
E04H15/00 E04H15/34 (Core/Invention)
CPC: E04H15/34 E04H15/52
European class: E04H15/34 E04H15/52
US class: 135/128 135/130
Family:

Publication number	Pub. date	Application number	App. date
CL2008001284 A1	20090102	CL20080001284	20080502
CO6050061 A1	20090630	CO20080130784	20081210
PE01122010 A1	20100219	PE20080002036	20081218
US2009272415 AA	20091105	US20080347509	20081231

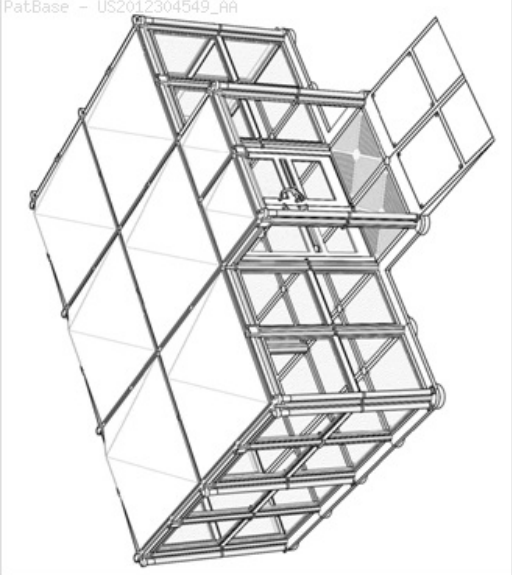
Priority: CL20080001284 20080502;

Cited documents: US665535 A, US5662132 A, US5205089 A, US4649947 A, US3536083 A, US2230623 A, US1961915 A, US1291758 A,
Assignee(s): (std): SEPULVEDA ZEPEDA PILAR ; ZEPEDA PILAR SEPULVEDA
Assignee(s): PILAR SEPULVEDA ZEPEDA
Inventor(s): (std): ZEPEDA PILAR SEPULVEDA ; SEPULVEDA ZEPEDA PILAR
Inventor(s): ASESORIAS MILENA ALCAYAGA ; PILAR SEPULVEDA ZEPEDA

13) Family number: 52528386 (US2012304549A)
Title: HANDMADE STRUCTURE SYSTEM

Abstract:

Source: US2012304549A A system of prefabricated **modular** components, designed to fit and connect together using no tools other than human hands, allowing persons with little or no construction experience to assemble floored/partitioned/roofed structures of variable shape and surface area. Flooring panels are inserted and secured into flooring frames that have been inserted and secured into frame connectors. Flooring frames may be anchored into an outdoor installation surface for long term use. Certain configurations of the frame connector allow for the installation of variable height partition supports, as well as partition panels. A special configuration of the flooring frame allows for wheeled implement/conveyance access to the floored surface from the surrounding surface. Open, unfloored areas may be created within the periphery of a structure. Roof Panels are installed onto and supported by Roof Brackets, Roof Beams and Integrated Gutter Sections. Precipitation is conveyed to Downspout Pipes and Fittings via Downspouts.



International class (IPC 8-9): E04B1/00 E04B1/02 E04B1/343 E04B1/38 E04B1/70 E04B7/02 E04D13/064 E04D13/08
E04H1/00 (Advanced/Invention);
E04C3/32 (Advanced/Non-invention)
CPC: E04B1/34315 E04B7/026 E04B7/028 E04C3/32 E04D13/064 E04D13/0645 E04D13/08
US class: 1/1 52/11 52/16 52/302.1 52/582.1 52/745.06
Family:

Publication number	Pub. date	Application number	App. date
US2012304549 AA	20121206	US20110153453	20110605
US9206595 BB	20151208	US20110153453	20110605

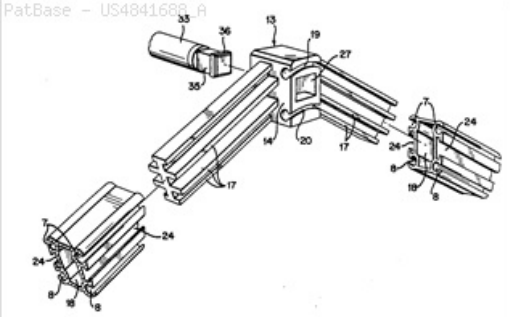
Priority: US20110153453 20110605;

Cited documents: USD529186 S1, US8776449 BA, US8650807 BB, US8596012 BB, US8584404 BB, US8424258 BB, US8353131 BB, US8011148 BB, US7895794 BB, US7895793 BA, US7509776 BB, US7487622 BB, US7395634 BB, US7007429 BB, US6889475 BB, US6796087 BA, US6721967 BB, US6701678 BA, US6694689 BA, US6209267 BA, US5779517 A, US5323575 A, US4567709 A, US4561232 A, US4074488 A, US3571965 A, US3504472 A, US2841977 A, US2011179722 AA, US2010287848 AA, US2007074462 AA, US2007056223 A9, US2005246968 AA, US2005076590 AA,
Assignee(s): (std): RUTLEDGE RICHARD BRUCE
Inventor(s): (std): RUTLEDGE RICHARD BRUCE

14) Family number: 18912815 (US4841688A)
Title: Modular pavilion

Abstract:

Source: US4841688A A pavilion is comprised of a plurality of spaced, generally parallel frames, each having elongated modular elements connected one to the other by joints. Adjustable spacers are provided to connect the frames one to the other. Each modular element includes a pair of channels along opposite sides thereof for receiving enlarged margins of internal and external canvases, respectively, extending between the modular elements of adjacent frames. The spacers are adjusted to tension the canvases between the frames. Each modular element has a spigot as its central core to ensure rigidity. The modular elements are secured at their ends to joints which have channels forming continuations of the channels of the elements whereby the canvases may be drawn through the channels. The pavilion is thus extendable by the additional of further frames and canvases and readily and easily knocked down for transport.



International class (IPC 8-9): E04H15/32 E04H15/34 E04H15/54 E04H15/64 (Advanced/Invention);
E04H15/32 E04H15/34 (Core/Invention)

International class (IPC 1-7): E04B E04H15/02 E04H15/18 E04H15/34 E04H15/54 E04H15/64

CPC: E04H15/322 E04H15/34 E04H15/54 E04H15/644

European class: E04H15/32B E04H15/34 E04H15/54 E04H15/64B2

US class: 52/63 52/641 52/86

Family:

Publication number	Pub. date	Application number	App. date
DE3707621 A1	19880218	DE19873707621	19870310
IT1197845 A	19881206	IT19860021411	19860805
IT8621411 A0	19860805	IT19860021411	19860805
US4841688 A	19890627	US19870082002	19870805

Priority: IT19860021411 19860805;

Cited documents: US4644706 A, US4583331 A, US4137687 A, US4076431 A, US3855643 A, US3780477 A, US3563257 A, US3255769 A, US3165110 A, US2986150 A, GB2099880 A1,

Assignee(s): (std): RIRI ITALIA SPA ; RIRI SPA

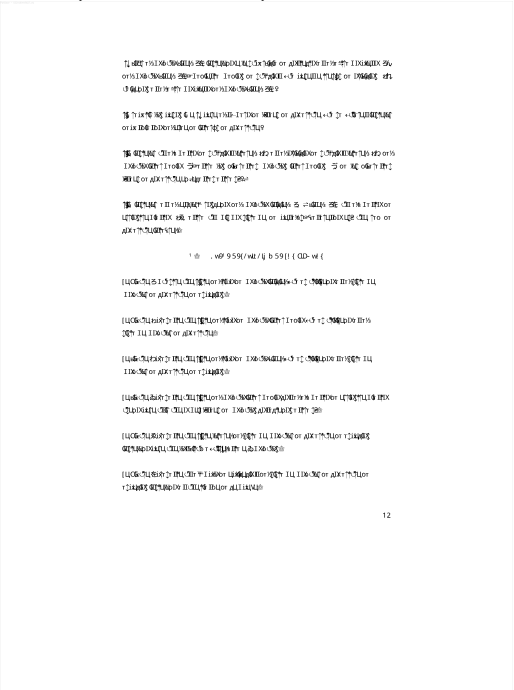
Assignee(s): RIRI ITALIA A CORP OF ITALY SPA ; RIRI ITALIA S P A

Inventor(s): (std): RINALDI RINALDO

Inventor(s): RINALDO RINALDI

15) Family number: 65747310 (CO20160005627A)

Title: SISTEMA Y METODO MODULAR MULTIPROPOSITO DE COBERTURA DE ESPACIOS Multipurpose modular system and space coverage method (Machine translation)



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

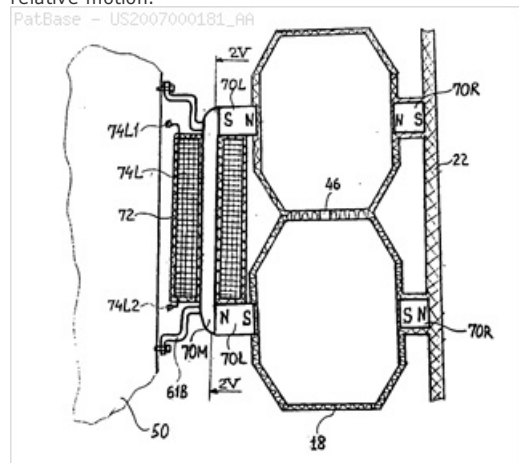
Publication number	Pub. date	Application number	App. date
CO20160005627 A1	20170310	CO20160005627	20161221

Priority: CO20160005627 20161221;

Assignee(s): UNIVERSIDAD DE MEDELLIN
Inventor(s): ALBERT LEONARD ALZATE RAMIREZ ; JAIME ALBERTO ECHEVERRI ARIAS ; JUAN MANUEL MONTES HINCAPIE

16) Family number: 34068343 (US2007000181A)**Title:** MAGNETIC INDUCTION DYNAMICAL DEVICES FOR DAMPING IMPACTS AND HEATING OBJECTS**Abstract:**

Source: US2007000181A Proposed MID-devices comprise magnetic and electro-conductive means. High winds impacts or intermittent loads actuate a relative motion of the magnetic and electro-conductive means, inducing electric current within the latter, providing a damping of said impacts or loads, providing a heating usable for warming up homes, clothes (in gloves-by clapping hands), footwear (by a walking person), etc. Some embodiments include impact absorbing insertions (sometimes comprising spring-like materials, pneumatic chambers, or bladder-panels), disposed between or within the magnetic and electro-conductive means, and returning them toward their start position. Other embodiments deploy magnetic means facing each other with the same polarity, providing said returning. MID-devices combined with the pneumatic chambers or bladder-panels produce more efficient damping. Said electro-conductive means may include flexible conducting sheets, or coils with soft iron cores usable in damping, repulsing control, and power-generating modes. Said magnetic means may be concavely or convexly shaped stabilizing said relative motion.

**International class (IPC 8-9):** E04B1/98 E04H9/00 E04H9/02 (Advanced/Invention);

E04B1/98 E04H9/00 E04H9/02 (Core/Invention)

CPC: Y02A50/14 E04H9/14**European class:** E04H9/14**US class:** 52/1 52/167.1 52/167.7 52/167.700S 52/1P**Family:**

Publication number	Pub. date	Application number	App. date
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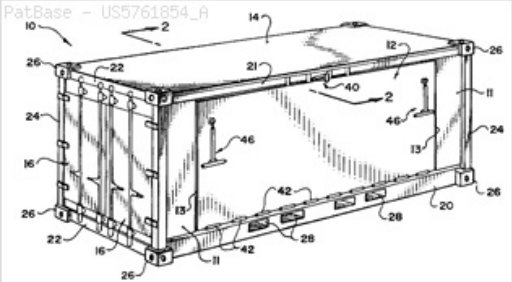
US2007000181 AA	20070104	US20060341059	20060127
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US2007000188 AA	20070104	US20050171179	20050630
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Priority: US20050171179 20050630; US20060341059 20060127;**Cited documents:** US6860069 BB, US6363661 BA, US6029405 A, US4672888 A, US4607655 A, US4114325 A, US3823711 A, US3332177 A, US3008214 A, US2718014 A, US2411316 A, US2028060 A, US2007220817 AA, US2006277830 AA, US2006260226 AA, US2006070305 AA, US2006059788 AA, US2002184841 AA,**Assignee(s):** (std): SMUSHKOVICH ALEKSANDR**Inventor(s):** (std): SMUSHKOVICH ALEKSANDR

18) Family number: 29237538 (US5761854A)
Title: Collapsible portable containerized shelter

Abstract:
Source: US5761854A PCT No. PCT/CA94/00384 Sec. 371 Date Oct. 5, 1995 Sec. 102(e) Date Oct. 5, 1995 PCT Filed Jul. 6, 1994 PCT Pub. No. WO95/03457 PCT Pub. Date Feb. 2, 1995Currently portable industrial camp shelters will be either wood frame construction or fabric **tents**. The former have restriction on size and require special skills and equipment to install on site. The latter require plumbing and electrical installation to be installed on site. The present invention combines the advantages of frame structures and **tents** in a portable collapsible shelter by modifying standard shipping container structures to provide fold-down side walls which extend the floor space of the container and are provided with a retractable fabric **cover** to enclose the extended space.



International class (IPC 8-9): B60P3/34 B60P3/35 E04B1/344 E04H1/12 E04H15/00 E04H5/02 (Advanced/Invention); E04H1/12 (Advanced/Non-invention); B60P3/32 E04B1/344 E04H1/12 E04H15/00 E04H5/00 (Core/Invention)
International class (IPC 1-7): B60P3/35 E04B1/344 E04B1/346 E04H1/12 E04H5/02
CPC: B60P3/34 E04B1/3444 E04H15/008
European class: B60P3/34 E04B1/344C1 E04H15/00D
US class: 135/116 52/64 52/646 52/68 52/69 52/690 52/79.5 52/795
Family:

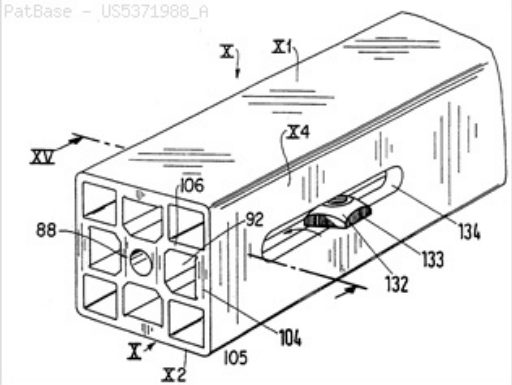
Publication number	Pub. date	Application number	App. date
AT151142 E	19970415	AT19940921562T	19940706
AU199472249 A1	19950220	AU19940072249	19940706
CA2100845 AA	19950120	CA19932100845	19930719
CA2100845 C	19981215	CA19932100845	19930719
CN1065309 C	20010502	CN19941093437	19940706
CN1131447 A	19960918	CN19941093437	19940706
DE69402426 D1	19970507	DE19946002426	19940706
DE69402426 T2	19971204	DE19946002426T	19940706
EP0710311 A1	19960508	EP19940921562	19940706
EP0710311 B1	19970402	EP19940921562	19940706
JP3023177 B2	20000321	JP19950504824T	19940706
JP9500183 T2	19970107	JP19950504824T	19940706
US5761854 A	19980609	US19950532783	19951005
WO9503457 A1	19950202	WO1994CA00384	19940706

Priority: CA19932100845 19930719; WO1994CA00384 19940706;

Cited documents: WO8100989 A1, WO8000145 A1, US5444944 A, US5417468 A, US5398463 A, US5319895 A, US5283993 A, US5237784 A, US5185973 A, US5054295 A, US5038517 A, US4912892 A, US4603518 A, US4599829 A, US3830541 A, US3633324 A, US3514147 A, US3461890 A, US3445134 A, US3226890 A, US3095616 A, US3070399 A, FR2535658 A1, FR1030136 A,
Assignee(s): (std): JOHNSON BRIAN ; JOHNSON BRIAN D ; THORNE GLEN ; THORNE GLEN V ; WEATHER HAVEN RESOURCES LT ; WEATHER HAVEN RESOURCES LTD ; WEATHERHAVEN RESOURCES LTD
Assignee(s): WEATHER HAVEN RESOURCES LT BURNABY BRITISH COLUMBIA CA ; WEATHERHAVEN GLOBAL RESOURCES LTD ; WEATHER HAVEN RESOURCES LT BURNABY BRITISH COLUMBI
Inventor(s): (std): JOHNSON BRIAN ; JOHNSON BRIAN D ; THORNE GLEN ; THORNE GLEN V ; TOHNSON BRIAN D ; GLEN V THORNE ; BRIAN D TOHNSON ; BRIAN D JOHNSON
Inventor(s): THORNE GLEN V BURNABY BRITISH COLUMBIA V5J 5C8 CA ; JOHNSON BRIAN D BURNABY BRITISH COLUMBIA V5J 5C8 C
Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA US UZ VN

19) Family number: 17975399 (US5371988A)
Title: MODULAR BUILDING SYSTEM AND FRAME MEMBERS

Abstract:
Source: US5371988A A modular building system having two or more elongated hollow profiled frame members and female and/or male fasteners which separately connect the frame members to each other. Each frame member has smooth, plane and at least substantially uninterrupted external surfaces, at least one longitudinally extending stiffening core with a longitudinally extending at least partially tapped hole, at least one longitudinally extending outer wall adjacent an external surface and spaced apart from the core, and at least one pair of longitudinally extending sidewalls which connect the core with the outer wall. The outer wall, the core and the sidewalls define a longitudinally extending chamber which is located between the outer wall and the core and is flanked by the sidewalls. Male fasteners can extend transversely of the outer wall and core and into the holes in the cores of adjacent frame members or into transversely extending tapped bores of adjacent frame members.



International class (IPC 8-9): A47B57/26 E04B1/58 E04B2/76 F16B7/18 F16S3/00 (Advanced/Invention); F16B37/04 (Advanced/Non-invention); A47B57/00 E04B1/58 E04B2/76 F16B7/18 F16S3/00 (Core/Invention); F16B37/04 (Core/Non-invention); A47B F16S (Subclass/Invention)
International class (IPC 1-7): A47B A47B57/26 E04C3/00 F16B12/28 F16S F16S3/00 F16S3/02 F16S3/04
CPC: A47B57/26 F16S3/00 Y10T403/345 Y10T403/349 Y10T403/44 B21C35/026 E04B1/5831 E04B2/765 E04B2/766 E04B2001/5856 E04B2001/5881 F16B7/187 F16B37/045
European class: B21C35/02B2 E04B1/58C1 E04B2/76C3 E04B2/76D F16B7/18N P04B1/58C5 P04B1/58L R16B37/04E
US class: 403/174 403/178 403/217 52/282.1 52/656.1 52/656.9 52/710 52/731.2 52/731.3 52/731.4 D25/060 D25/122 D25/60
Family:

Publication number	Pub. date	Application number	App. date
DE4139185 A1	19920611	DE19914139185	19911128
DE4143352 C2	19950720	DE19914143352	19911128
DE9116442 U1	19930311	DE19910016442U	19911128
FR2669714 A1	19920529	FR19910014579	19911126
FR2669714 B1	19941209	FR19910014579	19911126
GB2251010 A1	19920624	GB19910025174	19911127
GB2251010 B2	19950531	GB19910025174	19911127
GB9125174 A0	19920129	GB19910025174	19911127
IT1252104 B	19950602	IT1991MI03162	19911127
ITMI913162 A0	19911127	IT1991MI03162	19911127
ITMI913162 A1	19920529	IT1991MI03162	19911127
US5371988 A	19941213	US19910800939	19911126

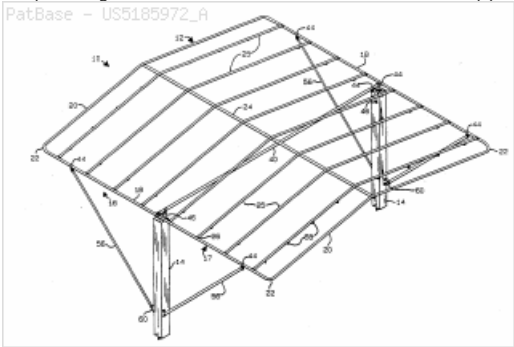
Priority: DE19904037871 19901128; DE19914139185 19911128; DE19914143352 19911128;

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Assignee(s): (std): HANNES PAUL
Assignee(s): HANNES PAUL HAGUENAU FR ; NORCAN BP SA ; NORCAN SA ; PAUL HANNES
Inventor(s): (std): HANNES PAUL ; PAUL HANNES
Inventor(s): HANNES PAUL HAGUENAU FR

20) Family number: 11055941 (US5185972A)
Title: MODULAR CANOPY

Abstract:

Source: US5185972A An all-purpose **modular** canopy system including a canopy frame formed of a plurality of interconnected sections, the sections being formed of welded tubular elements. The sections are **modular** in configuration including end and central portions whereby the sections may be selectively assembled to produce the desired length. The canopy frame includes transversely disposed brace elements associated with supporting columns and adjustable fittings to facilitate alignment of the columns and canopy frame, and the canopy frame is **covered** by a flexible **covering** using a lacing system between the frame and **covering** to maintain **covering** tension. The **covering** may include a skirt cooperating with skirt stabilizers formed in the canopy frame corners for maintaining the skirt properly oriented.



International class (IPC 8-9): E04H15/58 (Advanced/Invention);
E04H15/32 (Core/Invention)

International class (IPC 1-7): E04B1/12 E04B15/18

CPC: Y10S135/908 E04H15/58

European class: E04H15/58

US class: 135/101 135/105 135/121 135/908 52/63 52/630 52/646 52/73 52/90 52/92.2

Family:

Publication number	Pub. date	Application number	App. date
US5185972 A	19930216	US19910661208	19910227

Priority: US19910661208 19910227;

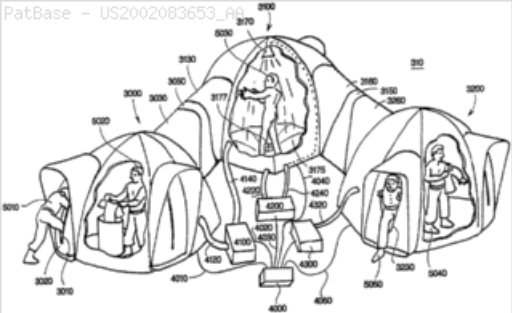
Cited documents: US498583 A, US493305 A, US4865066 A, US4726153 A, US4683901 A, US4347690 A, US4285355 A, US3182672 A, US3023732 A, US2845078 A, US2808065 A, US2130919 A, DE1122223 B,

Assignee(s): (std): MARKIEWICZ RICHARD A

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

21) Family number: 28254252 (US2002083653A)
Title: RAPIDLY DEPLOYABLE PROTECTIVE ENCLOSURE

Abstract:
Source: US2002083653A A rapidly deployable protective enclosure is constructed from a flexible membrane surrounding a framework of inflatable support members each individually coupled to a central fluid distribution system. Each inflatable support member is individually repairable or replaceable from within the enclosure without effecting the structural integrity of the remaining framework. A system is provided to make the enclosure air tight along interlocking tongue and groove tracks, and an air tight passage between modularly connected enclosures is also provided.

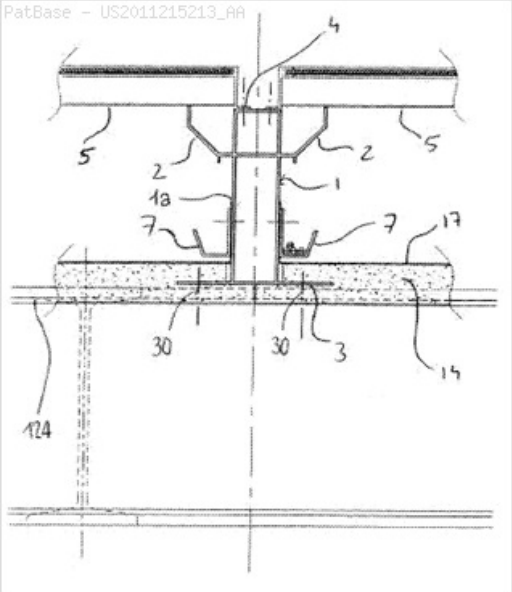


22) Family number: 44998954 (US2011215213A)

Title: DEVICE FOR SUPPORTING PHOTOVOLTAIC CELL PANELS, SUPPORT SYSTEM AND INSTALLED ASSEMBLY

Abstract:

Source: US2011215213A Device for supporting photovoltaic cell panels, which is formed from a section with a height between 5 and 25 cm, comprising a central portion (1), two gutters (2) symmetrical with respect to the support and running along the section over the entire length thereof, a retaining rail (3) at the base, fastening means (4), for fastening two photovoltaic cell panels (5), a thermal insulation, and a complementary sealing device.



International class (IPC 8-9): A01G9/14 A01G9/24 A47B97/00 E04B1/346 E04D13/18 E04D3/40 E04F13/072 F24J2/52 H01L23/12 H01L31/048

H02S20/23 (Advanced/Invention);

E04D13/18 F24J2/00 H01L31/048 (Core/Invention)

CPC: F24J2/5201 F24J2/4614 F24J2/5207 F24J2/5211 F24J2002/5215 F24J2002/5294 Y02B10/12 Y02B10/20 Y02E10/47 F24J2/5245 F24J2/0444

F24J2/045 F24J2/461 F24J2/5232 F24J2/5233 F24J2/5258 F24J2002/522 F24J2002/5226 F24J2002/5279 Y02E10/44 H01L31/0521 Y02E10/50

F24J2/51 F24J2/5256 F24J2002/0046 F24J2002/0092 F24J2002/5281 H02S20/22 H02S20/26 E04D3/40 E04F13/072 H02S20/23 B25J9/00

Y02A30/62 Y02A40/266 F24J2002/5479 F24J2002/5462 F24J2002/5458 F24J2/5406 F24J2/5269 A01G9/243 Y02P60/124 E04B7/163

European class: F24J2/46B18B F24J2/52A4B4 F24J2/52A4E H01L31/048B R24J2/52A4P4 R24J2/52P24 Y02B10/12 Y02E10/47

Y02E10/50

US class: 248/228.2 248/309.1 248/309.100P 248/316.4 248/500 47/17 52/1 52/173.1 52/173.3 52/65 52/741.1 901/50

Family:

Publication number	Pub. date	Application number	App. date
EP2366196 A1	20110921	EP20090793554	20091117
FR2938566 A1	20100521	FR20080006419	20081117
FR2938566 B1	20120113	FR20080006419	20081117
US2011215213 AA	20110908	US20090129378	20091117
US2013139468 AA	20130606	US20130760965	20130206
US2014041321 AA	20140213	US20130831496	20130314
US2014259899 AA	20140918	US20140217288	20140317
US2016365825 AA	20161215	US20150970431	20151215
US8794583 BB	20140805	US20090129378	20091117
WO10055235 A1	20100520	WO2009FR01322	20091117
WO14145988 A1	20140918	WO2014US30855	20140317
WO14145988 A9	20141113	WO2014US30855	20140317
WO14159566 A1	20141002	WO2014US24219	20140312

Priority: FR20080006419 20081117; US20110129378 20110513; US20130760965 20130206; US20130831496 20130314;

US20130801089P 20130315; US20130789607P 20130315; WO2009FR01322 20091117; US20140217427 20140317; US20140217288 20140317;

US20150970431 20151215;

Cited documents: WO9947761 A1, WO9835766 A1, WO10055235 A1, US8459249 BB, US8426792 BB, US8347556 BB, US8344239 BB, US8336261 BB, US8181402 BB, US8136783 BB, US8039733 BB, US7956280 BB, US7774998 BB, US7748175 BB, US7745723 BB, US7661391 BB, US7600349 BB, US7592537 BA, US7299591 BB, US6799398 BA, US6617507 BB, US6354289 BA, US6108597 A, US6105317 A, US6065252 A, US5968287 A, US5813169 A, US5802762 A, US5787653 A, US5576947 A, US5528789 A, US5189851 A, US5164020 A, US5134827 A, US5109566 A, US5092939 A, US5038517 A, US4936096 A, US4928444 A, US4917004 A, US4883340 A, US4751800 A, US4677248 A, US4594470 A, US4526161 A, US4426999 A, US4393859 A, US4324232 A, US4280484 A, US4274395 A, US4239555 A, US4233958 A, US4223667 A, US4215677 A, US4212291 A, US4184479 A, US4184476 A, US4178910 A, US4175542 A, US4171694 A, US4150660 A, US4136669 A, US4119084 A, US4098260 A, US4096861 A, US4073283 A, US4033327 A, US4029080 A, US4014133 A, US4010733 A, US3895604 A, US3800358 A, US2014041321 AA, US201223033 AA, US2012199266 AA, US2012152877 AA, US2012132262 AA, US2012117890 AA, US2012027550 AA, US2011284057 AA, US2011215213 AA, US2011209745 AA, US2011137458 AA, US2011126378 AA, US2010235206 AA, US2010212654 AA, US2010206294 AA, US2010155547 AA, US2010000570 AA, US2009266353 AA, US2009241994 AA, US2009165843 AA, US2008302407 AA, US2008176504 AA, US2008139106 AA, US2008012310 AA, US2007289227 AA, US2007079861 AA, US2005171644 AA, US2005144903 AA, US2005050811 AA, US20042231089 AA, US2004144043 AA, US2004124711 AA, US2003201009 AA, JP6229080 A2, JP2003343057 A2, JP2001164713 A2, JP2000154625 A2, JP11013224 A2, EP2422889 A1, DE20219173 U1, DE20219173,

DE202005012993 U1

DE202005012993,

DE202005007855 U1

DE202005007855,

DE102005039495 A1

Assignee(s): (std): CHAMEAU ERIC ; POIVET ALAIN ; KBFX LLC

Assignee(s): ERIC CHAMEAU ; ALAIN POIVET

Inventor(s): (std): CHAMEAU ERIC ; POIVET ALAIN

Inventor(s): ERIC CHAMEAU ; ALAIN POIVET

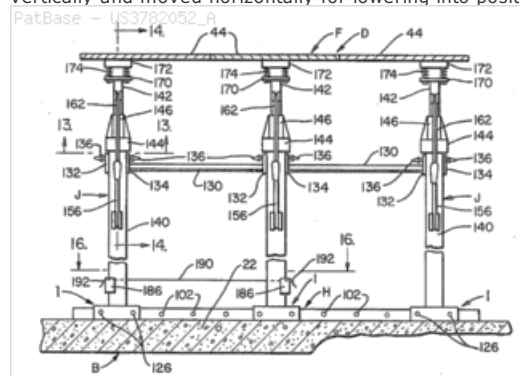
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23) Family number: 7579802 (US3782052A)

Title: APPARATUS AND METHOD FOR BUILDING CONSTRUCTION

Abstract:

Source: US3782052A A plurality of **modular** wall units are constructed on a base area within a temporary shelter removably positioned on the base area. The temporary shelter is then moved from the base area. With the shelter removed from the base area, the wall units are first lifted vertically and moved horizontally for lowering into position on a building foundation.



International class (IPC 8-9): E04B1/35 E04C2/04 E04G21/14 E04G21/28 (Advanced/Invention);

E04B1/35 E04C2/04 E04G21/14 E04G21/24 (Core/Invention)

International class (IPC 1-7): E04B1/04 E04B1/35 E04C2/06

CPC: Y10S52/12 E04G21/14 E04B1/35 E04C2/041 E04C2002/002 E04G21/28 E04G21/147

European class: E04B1/35 E04C2/04B E04G21/14 E04G21/28 P04C2/00A1

US class: 156/71 248/354.3 249/1 52/125.2 52/127.2 52/66 52/74.5 52/745 52/745.02 52/747.12 52/DIG.12

Family:

Publication number **Pub. date** **Application number** **App. date**

US3782052 A 19740101 US19720292171 19720925

Priority: US19720292171 19720925;

Cited documents: US3585092 A, US3574981 A, US3238589 A, IT525930 A, GB1028318 A, AU125709 A1,

Assignee(s): (std): VETOVITZ W

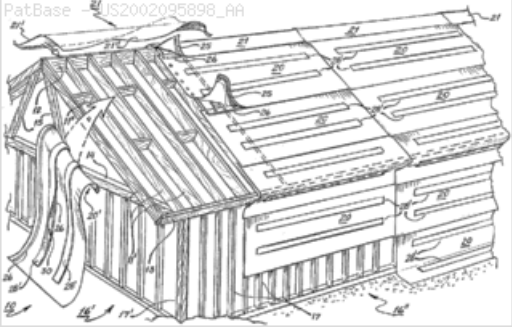
Assignee(s): VETOVITZ W US

Inventor(s): (std): VETOVITZ W

Inventor(s): VETOVITZ W US

24) Family number: 28223728 (US2002095898A)
Title: MODULAR-TARP BUILDING-ROOF/WALL SHIELDING AND SYSTEM

Abstract:
Source: US2002095898A An environmentally conservative and more cost-effective apparatus and method for protecting architectural-building construction work in progress from potential damaging effects of rain-storms, temporarily sealing-off exposed roof and wall structures from penetration by water; -heretofore only facilitated by use of awkward to handle disposable plastic-film sheets or general use tarpaulins. The new specialized tarp-system employs a modular array of prefabricated rectangular tarp-panels fabricated from flexible impermeforate light-weight/high-strength material sized both for easy one-man handling which proportional dimensions are quickly and easily assembled over exposed-framing of a building. Each identical tarp-panel and optional ridge-panel employs either a linear anchoring-strip device, or a plurality of spaced apart perimeter and field-area grommethole reinforced points, either of which accepting easily removable nail or screw fasteners. Abutting modular tarp-panels can be readily assembled as necessary via interconnecting tarp-panel perimeter edges optionally provided with integral weather-flaps configured to close-over the linear-rows of incrementally installed fasteners. The tarp-panels thus become interdependent from wind displacement, and their impermeforate interlocking design can also (similar to, but not to be confused with the preferably lighter weight linear retention devices employed upon the weatherizing flaps) be facilitated via use of tongue- and -groove interlock, cleat-zipper, or hook- and -loop type couplings; making the tarp-panels readily avulsable when weather clears, allowing rapid disassembly for stacking and stowing in rolled-bundles for future reuse.



International class (IPC 8-9): E04G21/28 (Advanced/Invention);
E04G21/24 (Core/Invention)
International class (IPC 1-7): E04B2/00 E04B9/00
CPC: E04G21/28 E04G2021/248
European class: E04G21/28
US class: 52/127.8 52/506.01 52/506.05 52/90.1 52/901
Family:

Publication number	Pub. date	Application number	App. date
US2002095898 AA	20020725	US20010768757	20010125

Priority: US20010768757 20010125;

Assignee(s): (std): BETTENCOURT JOSEPH A
Inventor(s): (std): BETTENCOURT JOSEPH A

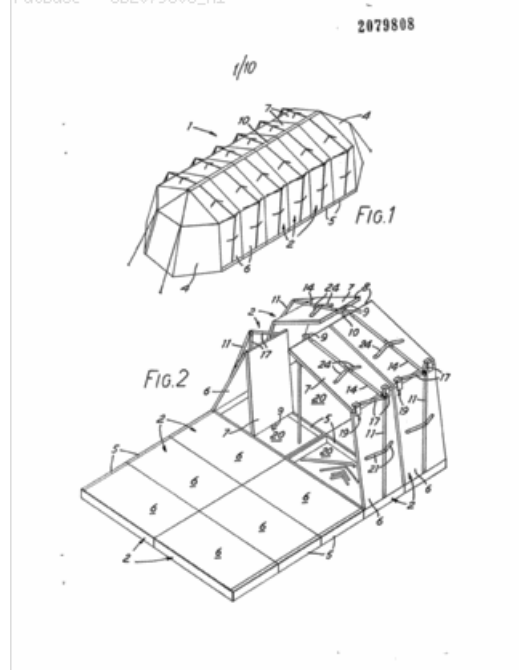
25) Family number: 5161954 (GB2079808A)

Title: Improvements in or relating to building structures

Abstract:

Source: GB2079808A A building structure that is readily erectable (e.g. in an emergency to provide housing, offices, or other accommodation) from a plurality of like **modular** units, each unit being composed of a plurality of elements pivotally interconnected and unfoldable from a box-like structure in which the elements lie for transportation. Each **modular** unit comprises a base member to engage the ground, a wall panel, first pivot means pivotally mounting the wall panel to the base member, a roof panel, second pivot means pivotally mounting the roof panel to the wall panel at a location distal from the first pivot means, a first bracing strut for connection by one end to the wall panel adjacent the base member, and a second bracing strut for connection by one end to the other end of said first bracing strut, the other end of the second bracing strut being for connection to the roof panel adjacent the edge thereof distal from the wall panel, and the base member consisting of a framework dimensioned to accommodate the panels within it. The roof panel is foldable about the second pivot means to lie substantially against the wall panel and the wall panel is foldable about the first pivot means to lie, with the roof panel, within the framework which has a box-like form.

PatBase - GB2079808_A1



International class (IPC 8-9): E04B1/343 E04B1/344 (Advanced/Invention); E04B1/343 E04B1/344 (Core/Invention)

International class (IPC 1-7): E04B1/344

CPC: E04B1/34331 E04B1/3442

European class: E04B1/343C3 E04B1/344C

Family:

Publication number	Pub. date	Application number	App. date
GB2079808 A1	19820127	GB19800022193	19800807

Priority: GB19800022193 19800807;

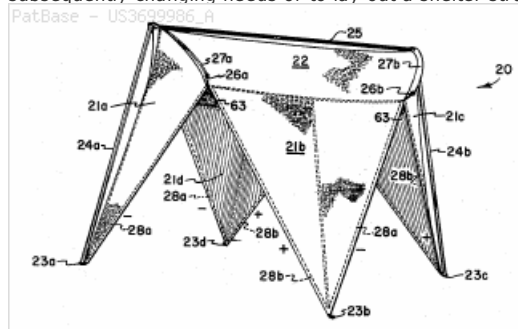
Assignee(s): (std): PLATTNER BERNARD ; RICE PETER RONAN

26) Family number: 1027610 (US3699986A)

Title: MODULAR SHELTER SYSTEM

Abstract:

Source: US3699986A A number of **tent** modules are arranged to be interconnected, as desired, to form various arrangements of combined shelter configurations. A single **modular** unit can be used and other modules can be acquired as necessary to accommodate immediate and subsequently changing needs or to lay out a shelter structure conforming to the natural terrain and terrain obstacles.



International class (IPC 8-9): E04H15/18 E04H15/30 (Advanced/Invention);
E04H15/00 (Core/Invention)

International class (IPC 1-7): A45F1/00 E04B1/347

CPC: E04H15/18 E04H15/30

European class: E04H15/18 E04H15/30

US class: 135/116 135/117 135/119 135/1R 135/87 135/97

Family:

Publication number	Pub. date	Application number	App. date
US3699986 A	19721024	US19710104298	19710106

Priority: US19710104298 19710106;

Assignee(s): (std): KIRKHAM ARTHUR J

Assignee(s): ARTHUR J KIRKHAM

Inventor(s): (std): KIRKHAM ARTHUR J

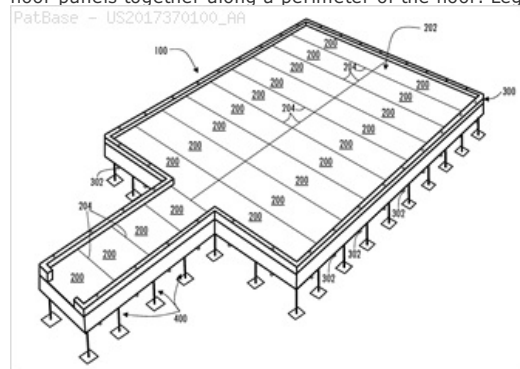
Inventor(s): ARTHUR J KIRKHAM

27) Family number: 68006417 (US2017370100A)

Title: MODULAR FLOOR PLATFORM

Abstract:

Source: US2017370100A A **modular** floor platform includes a floor made of a plurality of individual composite floor panels interconnected by tongue and groove joints. The individual composite floor panels have a foam core and a rigid **cover** over the foam core. A frame attaches the floor panels together along a perimeter of the floor. Legs beneath the frame and upwardly support the floor.



International class (IPC 8-9): E04B5/02 E04B5/08 E04C2/22 E04C2/34 E04C2/38 (Advanced/Invention); E04B1/61 E04C2/00 (Advanced/Non-invention)

CPC: E04B5/08 E04C2/34 E04B5/026 E04C2/22 E04C2/38 E04B1/6137 E04B2103/04 E04C2/50 E04C2002/001 E02D27/02 E04B1/0007

Family:

Publication number	Pub. date	Application number	App. date
US2017370100 AA	20171228	US20170585884	20170503

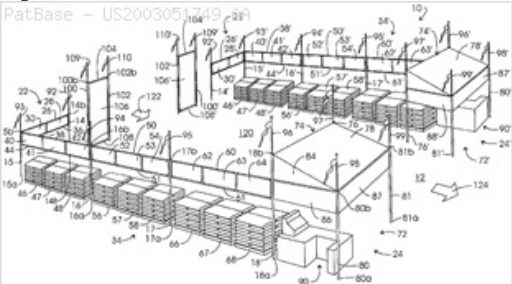
Priority: US20160330924P 20160503; US20170585884 20170503;

Assignee(s): (std): WORLD HOUSING SOLUTION INC

Inventor(s): (std): BEN ZEEV RON STOCKNOPF

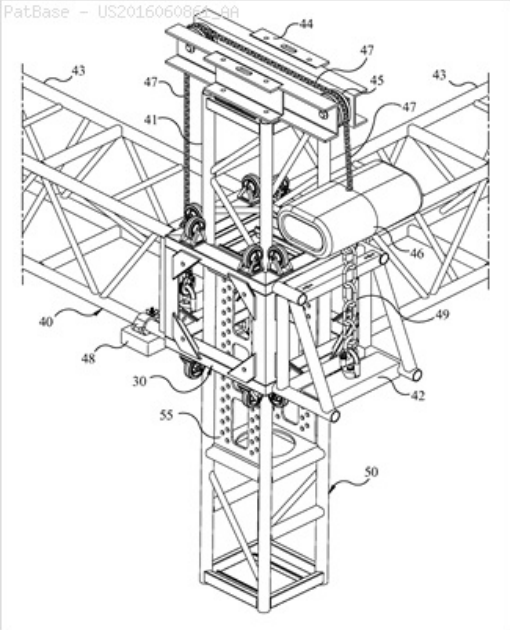
28) Family number: 32395119 (US2003051749A)
Title: METHOD AND SYSTEM FOR PRESENTING MERCHANDISE AT AN OUTDOOR PAVED SURFACE

Abstract:
Source: US2003051749A A method and system for presenting merchandise on a paved surface which employs permanently installed anchors each having a vertical sleeve. Poles of common height are inserted within the sleeves of the anchors in a manner defining a three dimensional merchandising region. The tops of the poles are interconnected by tensioned cable assemblies from which informational signage is suspended and retained by lower disposed retainer tensioned cables. Merchandising bays are established between mutually adjacent poles and entrance and exit regions are established in conjunction with a shopper aisle. A canopy is supported by poles and anchors over a cash/wrap station at the exit region.



29) Family number: 58736323 (US2016060861A)
Title: POWER LOCK SYSTEM FOR STAGE TRUSS TOWERS
Abstract:

Source: US2016060861A A power lock system for stage truss towers for remotely locking a climbing truss sleeve block with its tower, thereby distributing the downward load directly into the tower and preventing upward motion. The power lock system for stage truss towers generally includes a remotely controlled locking mechanism that is mounted within a truss tower section with adjustable locations. The sleeve that slides or rolls up the tower is equipped with stirrups to provide a structural receptacle for the locking forks. The sleeve and the locking mechanism are equipped with sensors that indicate the sleeve is in the correct location for locking. The control system displays the status of the sensors and limit switches and uses logic to exercise the rules of operation.



International class (IPC 8-9): E04B1/34 E04B1/343 E04B1/41 E04C3/02 E04C3/04 E04C3/08 E04H12/10 E04H12/18 E04H12/34 G05B19/05 (Advanced/Invention); E04C3/04 (Advanced/Non-invention)
CPC: E04B1/34331 E04B1/34384 E04B1/40 E04C3/08 E04H12/18 G05B19/058 E04C2003/0486 E04H3/24
US class: 1/1 52/111 52/741.1 700/275
Family:

Publication number	Pub. date	Application number	App. date
EP3044394 A2	20160720	EP20140843367	20140908
EP3044394 A4	20170621	EP20140843367	20140908
US2016060861 AA	20160303	US20140474171	20140831
US9297159 BB	20160329	US20140474171	20140831
WO15038479 A2	20150319	WO2014US54626	20140908
WO15038479 A3	20150618	WO2014US54626	20140908

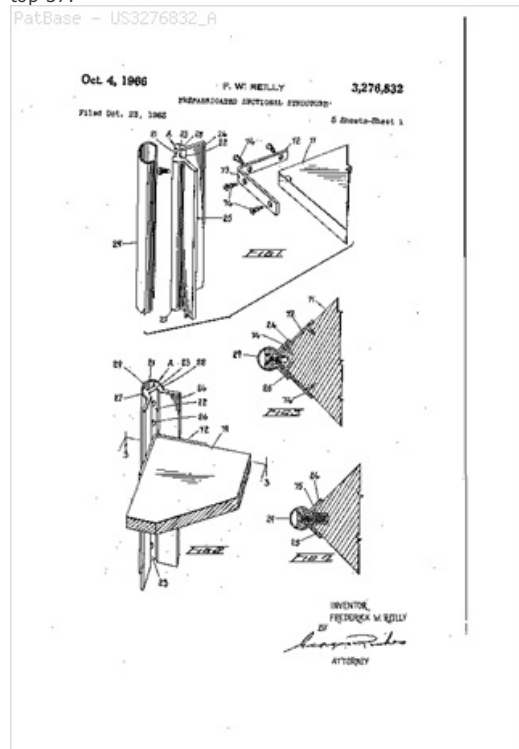
Priority: US20130875937P 20130910; US20140474171 20140831; WO2014US54626 20140908;

Cited documents: US896792 A, US8210311 BA, US6446757 BA, US5551199 A, US5368125 A, US5180275 A, US4600085 A, US4512117 A, US4484421 A, US4015686 A, US3722863 A, US2008300713 AA, US2007204520 AA, US2003213647 AA,
Assignee(s): (std): DARDEN BRUCE W ; DARDEN BRUCE WILLIAM
Inventor(s): (std): DARDEN BRUCE W ; DARDEN BRUCE WILLIAM
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

30) Family number: 31158431 (US3276832A)
Title: PREFABRICATED SECTIONAL STRUCTURE

Abstract:

Source: GB1033489A 1,033,489. Sectional furniture. F. W. REILLY. Sept. 9, 1964 [Sept. 28, 1963], No. 36822/64. Headings A4B and A4H. Prefabricated sectional furniture, e.g. tables, counters, showcases and shelving, is formed from horizontal beams supported and interconnected by elongated upright posts A, each having an inwardly facing longitudinal channel 22 with side walls extended to form diverging wings 24, 25, between which are clamped the ends of the beams, by means of corner blocks D, Fig. 5, or corner plates 72, Fig. 3 (not shown). The posts A may also have an outwardly facing channel 21 with apertures through which are passed screws 75 to secure the blocks D or plates 72 and beams to the posts A. An arcuate **cover** 32 or 29 may conceal the channel 21. A pair of posts B, C, Fig. 11 (not shown), connected by a web 38 may be used to connect aligned beams. Each beam has mitred ends and a U-shaped channel defined between walls 46, 47, 48 in which a corner block D or plate 72 is positioned. A key 55 may be provided to engage in a channel in the corner block D. The corner plates 72 may be secured to shelves 71. The beams may also have tracks 50 to receive the ends of sliding doors or walls, and a recess above wall 46 is provided to accommodate a top 37.



International class (IPC 8-9): A47B47/00 A47B47/02 A47B47/03 A47B47/04 A47B47/05 A47B57/06 A47B57/18 A47B96/06 A47F3/00 A47F3/06 A47F5/00 B66B1/34 B66B3/00 B66B5/00 E06B3/96 F16B12/00 F16B12/44 F16B12/50 F16B2/24 F16B5/02 F16B5/12 F16B9/02 (Advanced/Invention);

A47B47/00 A47B57/00 A47F3/00 B66B1/34 B66B3/00 B66B5/00 E06B3/96 F16B12/00 (Core/Invention)

International class (IPC 1-7): A47B19/04 A47B27/02 A47B55/00 A47B57/18 A47B96/14 A47F3/00 B66B1/34 B66B5/00 E04B1/18 F16B12/46

CPC: A47B47/021 A47B47/03 A47B47/04 A47B47/05 A47B57/18 A47B2230/01 A47F3/005 E06B3/9645 F16B12/02 F16B12/44 F16B12/50

European class: A47B47/02R A47B47/03 A47B47/04 A47B47/05 A47B57/18 A47F3/00G B66B1/34 B66B5/00B B66B5/00B2B E06B3/964H F16B12/02 F16B12/44 F16B12/50 K47B230/01

US class: 220/668 312/140
Family:

Publication number	Pub. date	Application number	App. date
AT255060 B	19670626	AT19640008261	19640928
AU4978464 A1	19660331	AU19640049784	19640928
BE652533 A	19641231	BE19640652533	19640901
CH431855 A	19670315	CH19640011869	19640911
DE1429658 A1	19690320	DE19641429658	19640928
FI43098 B	19701001	FI19640001901	19640904
FI43098 C	19710111	FI19640001901	19640904
FR1432551 A	19660325	FR19640988947	19640922
GB1033489 A	19660622	GB19640036822	19640909
LU47030 A	19641128	LU19640047030	19640928
NL6410411 A	19650329	NL19640010411	19640908
SE331170 B	19701214	SE19640010459	19640901
US3276832 A	19661004	US19630318363	19631023

Priority: CA19630318363 19631023; CA19630885585 19630928; US19630318363 19631023; EP19980810931 19980917;

Cited documents: US960677 A, US855195 A, US2980285 A, US2788096 A, US2764314 A, US2580029 A, US2344161 A, US2205826 A, US1548706 A, GB191228692 A,

Assignee(s): (std): FREDERICK WILLIAM REILLY ; INVENTIO AG ; REILLY FREDERICK W ; WILLIAM REILLY FREDERICK ; BEAUTILINE LTD

Assignee(s): FREDERICK W REILLY

Inventor(s): (std): FREDERICK W REILLY ; REILLY F ; REILLY FREDERICK W ; W REILLY FREDERICK ; WILLIAM REILLY FREDERICK ; RICHTER LUTZ

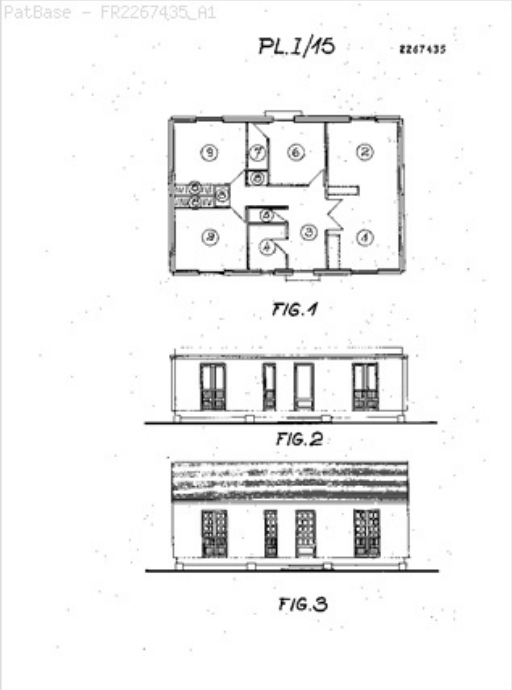
Inventor(s): FREDERICK WILLIAM REILLY ; REILLY FREDERICK WILLIAM

31) Family number: 3330558 (FR2267435A)

Title: MODULAR STEEL-FRAMED BUILDING CONSTRUCTION - HAS WELDED CROWNS JOINING POSTS, FLOOR BASE AND FOUNDATION

Abstract:

Source: FR2267435A (Claim 1) 1/ Construction prefabriquee,modulaire et evelutive a structure metallique caracterisee on ce quelle est constituee par un ou plusieurs ensembles @odu- les composes d'une plateforme plancher reposant sur des embases metalliques par l'intermediaire d'une couromme soudee sur celle-ci ou sur des plots de fondation; de poteaux metalliques porteurs de section appropriee aux efforts, reposant sur les embases metalliques par l'intermediaire d'une couronne soudee a la base des poteaux; d'une plateforme plafond reposant sur les poteaux par l'intermediaire d'une couronne metallique soudee en tete des poteaux; de panneaux de facades realises a l'aide de materieux tre divers tels que le beton, acier, bois, materiau de synthese; d'ensemble @enuises constituant les fermetures exterieures; de centreclaisnns permettant l'habillage interieur des panneaux de facades et de dissimuler les poteaux metalliques porteurs; de bacs en matiere plastique armee de fibre de verre pour assurer l'etancheite et d'une acrotere en tole pour assurer l'etancheite entre les bacs et les panneaux de fa cades. The construction is designed for use over a range of domestic and public buildings, and constitutes floor, wall and roof panels bolting onto a horizontal and vertical membered steel space frame, i.e. floor and roof frames with intermediate vertical posts. Floor slabs are supported by metal floor frames via weld fixed crowns or on concrete foundation blocks. The posts are of a size dictated by imposed loads and bear on floor and roof frames via welded crowns on opposed ends. The wall panels are of concrete, steel, timber and synthetics. Reinforced glass fibre cappings are used to effect weather seals and sheet metal flashings **cover** inter-panel joints.



International class (IPC 8-9): E04B1/348 (Advanced/Invention);
E04B1/76 (Advanced/Non-invention);
E04B1/348 (Core/Invention);
E04B1/76 (Core/Non-invention)
International class (IPC 1-7): E04B1/00 E04B1/18 E04B1/348 E04H1/00
CPC: E04B1/3483 E04B2001/7679
European class: E04B1/348C3 P04B1/76M
Family:

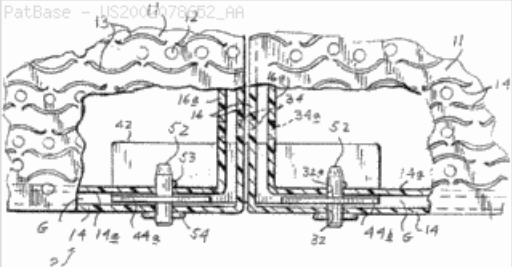
Publication number	Pub. date	Application number	App. date
FR2267435 A1	19751107	FR19740012901	19740412
FR2267435 B3	19770218	FR19740012901	19740412

Priority: FR19740012901 19740412;

Assignee(s): (std): LEMETTRE GERARD
Assignee(s): LEMETTRE GERARD FR

32) Family number: 28221854 (US2002078652A)
Title: MODULAR STRUCTURAL SURFACE ASSEMBLY

Abstract:
Source: US2002078652A A **modular** surface assembly includes a plurality of panels, each panel having a planar top surface, a double-wall skirt extending around the perimeter of the planar surface and defining a narrow gap between the two walls of the skirt. Collinear first **holes** extend through the skirt at a first location along the skirt and collinear second **holes** extend through the skirt at a second location along the skirt spaced from the first location. A first connector extends through the first **holes** and into the gap of one panel for connecting the one panel to an adjacent similar panel at the first location, and a second connector extends through the second **holes** and into the gap of the one panel for connecting that panel to the adjacent panel at the second location. Various connector designs are also disclosed.



International class (IPC 8-9): E01C5/00 E01C9/08 E04F15/10 (Advanced/Invention);
E04B1/61 (Advanced/Non-invention);
E01C5/00 E01C9/00 E04F15/10 (Core/Invention);
E04B1/61 (Core/Non-invention)
International class (IPC 1-7): E04B1/18 E04C2/38 E04F17/04 E04F17/08
CPC: E01C9/086 E01C5/005 E04B1/6187 E04F2201/0505 Y10T403/75 E04F15/02194 E04F15/082 E04F15/105
European class: E01C5/00D E01C9/08C E04F15/10 P04B1/61D4 P04F201/05A
US class: 403/408.1 52/302.3 52/414 52/578 52/582.1 52/585.1 52/801.11
Family:

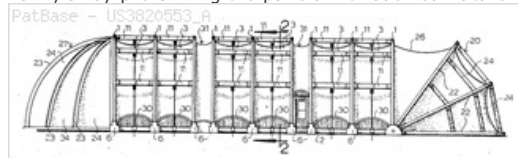
Publication number	Pub. date	Application number	App. date
US2002078652 AA	20020627	US20000748988	20001227

Priority: US20000748988 20001227;

Assignee(s): (std): HAWKES E GERRY
Assignee(s): BIKE TRACK INC
Inventor(s): (std): HAWKES E GERRY

33) Family number: 24050686 (US3820553A)**Title:** PAVILION WITH SERIES OF ARCHES AND METHOD OF ASSEMBLING AND ERECTING IT**Abstract:**

Source: US3820553A A **tent**-like structure, hereafter called a pavilion, with a series of curved arches and a panel of flexible membranous material attached to each pair of arches and tensioned in both directions with the panels concavely curved in the direction of the spacing of the arches as well as convexly curved in the other direction to minimize flutter and vibration and to enhance its loadcarrying capacity. The panels are attached to the arches by inserting beads on their edges into tunnels in the arches so that the panels may slide lengthwise of the arches to tension them lengthwise. The arches are mounted on rails to swing from recumbent to upright positions and slide toward each other to facilitate assembly of the panels and away from each other to tension the panels transversely. To move the arches apart and tension the panels transversely, extensible struts, such as toggles or jack-screws, are provided between each pair of arches. Alternate arches may be made larger or smaller than the other arches to enable inside struts to be used without interference with the panels. End closures, of the same general construction as the body of the pavilion, which may close the ends of the pavilion or nest with the body of the pavilion to open the ends, may also be provided. The concave transverse curvature may be imparted to the panels in the manner disclosed in the applicant's application, S.N. 93293, filed Nov. 27, 1971, or by preforming the panels with such curvature. Claims, 16 Drawing Figures

**International class (IPC 8-9):** E04B1/343 E04B1/344 E04H15/18 E04H15/20 E04H15/26 E04H15/32 E04H15/34 E04H15/38 E04H15/40 E04H15/52 E04H15/64 (Advanced/Invention);

E04B1/344 E04H15/00 E04H15/32 E04H15/34 (Core/Invention)

International class (IPC 1-7): A45F1/12 A45F1/16 E04B1/00 E04B1/32 E04B1/347 E04G21/00**CPC:** E04H15/322 E04H15/40 E04H15/648 E04H15/644 E04H15/646 E04H15/32 Y10S135/905 Y10S135/906 Y10S160/07 Y10S52/13 E04B1/3441

E04H15/18 E04H15/26 E04H15/34 E04H15/38 E04H15/52

European class: E04B1/344B E04H15/18 E04H15/26 E04H15/32 E04H15/32B E04H15/34 E04H15/38 E04H15/40 E04H15/52 E04H15/64B2

E04H15/64B4 E04H15/64B6

US class: 135/0.4R 135/117 135/119 135/123 135/124 135/129 135/130 135/132 135/135 135/137 135/156 135/4R 135/905 135/906 135/97

160/DIG.7 52/222 52/63 52/745 52/745.08 52/86 52/DIG.13

Family:

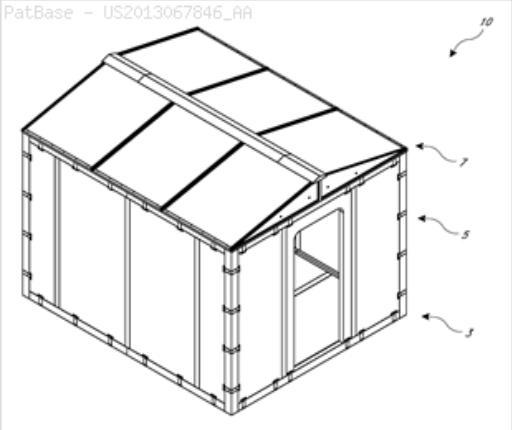
Publication number	Pub. date	Application number	App. date
AU197135184 A1	19730621	AU19710035184	19711101
CA1049369 A1	19790227	CA19710125745	19711021
DE2155445 A1	19720608	DE19712155445	19711108
DE2155445 B2	19770518	DE19712155445	19711108
DE2155445 C3	19780105	DE19712155445	19711108
FR2115364 A1	19720707	FR19710042023	19711124
FR2115364 B1	19740405	FR19710042023	19711124
GB1375180 A	19741127	GB19710049650	19711026
JP51026727 B4	19760809	JP19710091443	19711115
SE407251 B	19790319	SE19710015066	19711124
SE407251 C	19790628	SE19710015066	19711124
US3820553 A	19740628	US19720225899	19720214
US3958588 A	19760525	US19740469814	19740621
US3961638 A	19760608	US19740467906	19740523
US4028861 A	19770614	US19760700846	19760629
US4034772 A	19770712	US19750597970	19750721
US4034772 B1	19850514	US19750597970	19750721
US4036244 A	19770719	US19750576101	19750612
US4148332 A	19790410	US19770815650	19770714
USRE30044 E	19790717	US19780908518	19780522

Priority: US19700093293 19701127; US19720225899 19720214; US19730339333 19730308; US19730399333 19730508; US19720255899 19720214; US19730339333 19730508; US19740469814 19740621; US19740467906 19740523; US19760700846 19760629; US19750576101 19750612; US19750597970 19750721;**Cited documents:** US554792 A, US4028861 A, US3990194 A, US3961638 A, US3958588 A, US3953955 A, US3820553 A, US3811454 A, US3802450 A, US3563257 A, US3535834 A, US3534750 A, US3496686 A, US3469587 A, US3424179 A, US3273574 A, US3240217 A, US3215153 A, US3121439 A, US3054413 A, US2986150 A, US2969075 A, US2953145 A, US2948287 A, US2828756 A, US2806477 A, US2802478 A, US2797969 A, US2797696 A, US2627865 A, US2615458 A, US2522645 A, US2465140 A, US2225972 A, US2014336 A, US1701428 A, US1428343 A, JP43028826 Y1, CA639161 A,**Assignee(s):** (std): HUDDLE C F ; TENSION STRUCTURES CO ; HUDDLE CARL FREDERICK ; HUDDLE CARL F ; HUDDLE CARL ; HUDDLE CARL FREDERICK PLEASANT RIDGE MICH V ST A**Assignee(s):** TENSION STRUCTURES CO US ; HUDDLE CARL US ; CARL FREDERICK HUDDLE ; HONDA GIKEN KOGYO KK ; HOTTEL A CORP OF DE CORP ; HOTTEL A DE CORP CORP ; HOTTEL CORP**Inventor(s):** (std): SOK ; HUDDLE CARL FREDERICK PLEASANT RIDGE MICH ; HUDDLE CARL FREDERICK ; CARL F HUDDLE ; HUDDLE CARL FRED ; HUDDLE C ; HUDDLE CARL F**Inventor(s):** HUDDLE C US ; CARL FREDERICK HUDDLE

34) Family number: 53272059 (US2013067846A)
Title: BUILDING SYSTEM AND METHOD

Abstract:

Source: US2013067846A A building system can comprise wall, floor, and/or ceiling panels. A first profile with two cavities extending along different sides of the profile can be used to connect similar panels together. A second profile can be used to connect dissimilar panels. A plurality of fastening clips can be used to lockingly engage a wall panel at one end and one of either a wall panel, a floor panel, or a ceiling panel at the other end. The building system can be configured to not require other fasteners besides the clips and profiles to hold the panels together.



International class (IPC 8-9): E04B1/38 E04C1/00 (Advanced/Invention)
CPC: E04B1/6116 E04B2001/34389 E04B2001/6195 E04H1/1205 E04B1/34315
US class: 52/586.1
Family:

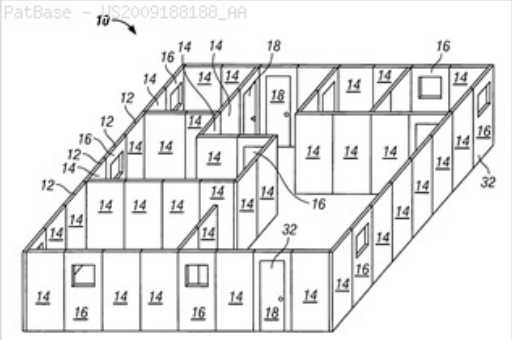
Publication number	Pub. date	Application number	App. date
US2013067846 AA	20130321	US20120619546	20120914

Priority: US20110535785P 20110916; US20120619546 20120914;

Cited documents: US8631617 BB, US7395634 BB, US7127865 BB, US6843025 BB, US6604328 BA, US6006480 A, US5647181 A, US4557091 A, US3349533 A, US2388297 A, US2168911 A, US2013192155 AA, US2011197521 AA, US2009013615 AA, US2008295439 AA, US2008216426 AA, US2004074158 AA, US2003205005 AA,
Assignee(s): (std): DIVERSIFIED FIXTURES INC ; HERTEL DANIEL J ; KVOLS KEVIN
Inventor(s): (std): KVOLS KEVIN ; HERTEL DANIEL J

36) Family number: 42925143 (US2009188188A)
Title: BUILDING SIMULATING APPARATUS AND METHOD FOR TRAINING EMERGENCY PERSONNEL

Abstract:
Source: US2009188188A The present invention provides an apparatus and method for simulating a building environment through which emergency personnel may be trained by practicing search and rescue. The present invention provides an apparatus including a plurality of wall panels which can be joined together and simulate a floor plan of a building. The wall panels preferably are **modular** prefabricated wall panels adapted to be assembled and disassembled permitting the same wall panels to be adapted for use to provide different floor plans. Thus, a **modular** kit incorporating a plurality of different wall panels may be arranged and subsequently rearranged into as many different floor plans as desired thus providing a variety of different floor plans which will provide challenging training in search and rescue.



International class (IPC 8-9): A62C99/00 E04B1/343 E04B1/61 E04C2/30 E04C2/38 E04C2/52 E04H1/00 G09B9/00 (Advanced/Invention); A62C99/00 E04B1/61 E04C2/30 E04C2/38 E04C2/52 (Core/Invention)
CPC: A62C99/0081 E04B1/10 E04B1/6183 E04B2001/0076 E04B2001/6195
European class: A62C99/00D E04B1/10 P04B1/00S4 P04B1/61D3F P04B1/61E
US class: 52/127.7 52/220.1 52/270 52/656.1
Family:

Publication number	Pub. date	Application number	App. date
CA2638123 AA	20090130	CA20082638123	20080723
US2009188188 AA	20090730	US20080219621	20080724

Priority: US20070935175P 20070730; US20080219621 20080724;

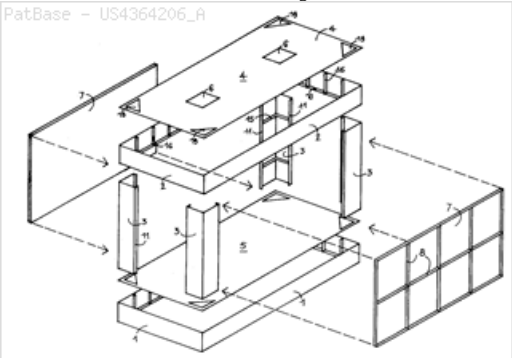
Cited documents: US7074043 BA, US6907698 BA, US6889473 BB, US6854234 BB, US6675091 BB, US6598363 BA, US6438903 BA, US6405491 BA, US6179620 BA, US6088980 A, US6018920 A, US5752835 A, US5203707 A, US4779393 A, US4594829 A, US4567699 A, US4258856 A, US4223500 A, US4074141 A, US3813832 A, US3748793 A, US3604146 A, US3390497 A, US3353314 A, US3309115 A, US2647287 A, US2540468 A, US2191804 A,
Assignee(s): (std): RIVET ROBERT
Inventor(s): (std): RIVET ROBERT

37) Family number: 18925834 (US4364206A)

Title: PREFABRICATED BUILDING UNITS FOR CONSTRUCTING BUILDING, AND BUILDINGS WHOSE FABRIC COMPRISES ASSEMBLED UNITS OF THIS KIND

Abstract:

Source: US4364206A The invention provides prefabricated building units for constructing buildings. Each unit consists of a structure having the shape of a right prism comprising a lower frame, an upper frame and uprights having a V-shaped section. In general a building unit also comprises an upper wall and a lower wall connected to the top portion of the upper frame and lower frame respectively. Each of these walls forms with the frame which supports it an empty box open at the bottom. The joining by bolting together superposed and/or juxtaposed building units constitutes the fabric of a building.



International class (IPC 8-9): E04B1/00 E04B1/08 E04B1/348 (Advanced/Invention);
E04B1/00 (Advanced/Non-invention);
E04B1/348 (Core/Invention);
E04B1/00 (Core/Non-invention)

International class (IPC 1-7): E04B1/00 E04B1/08 E04B1/12 E04B1/343 E04B1/348 E04C2/30 E04F E04H E04H1/00

CPC: E04B1/3483 E04B2001/0076 E04B2001/0084 E04B2001/34892

European class: E04B1/348C3 P04B1/00S4 P04B1/00S6 P04B1/348S

US class: 52/185 52/79.1 52/79.7 52/79.9 52/797

Family:

Publication number	Pub. date	Application number	App. date
AR221389 A1	19810130	AR19790279223	19791210
AT755079 A	19850315	AT19790007550	19791128
AU197953303 A1	19800710	AU19790053303	19791129
AU530363 B2	19830714	AU19790053303	19791129
BE880525 A	19800610	BE19790198496	19791210
BR7908052 A	19800708	BR19790008052	19791210
CA1129617 A1	19820817	CA19790339943	19791115
CH635641 A	19830415	CH19790010747	19791204
CU21044 A	19820328	CU19790035191	19791212
CU35191 O	19820328	CU19790035191	19791212
DD147702 A5	19810415	DD19790217514	19791210
DE2965875 D1	19830818	DE19792965875	19791126
DE7934285 U1	19800626	DE19790034285U	19791206
DK523979 A	19800612	DK19790005239	19791210
EP0012736 A1	19800625	EP19790870028	19791126
EP0012736 B1	19830713	EP19790870028	19791126
ES257026 U	19811216	ES19790257026U	19791203
ES257026 Y	19820601	ES19790257026U	19791203
FI793850 A	19800612	FI19790003850	19791210
FR2444130 A1	19800711	FR19780034744	19781211
FR2444130 B1	19820226	FR19780034744	19781211
FR2455657 A1	19801128	FR19790011027	19790502
FR2455657 B1	19821001	FR19790011027	19790502
FR2458638 A2	19810102	FR19790014983	19790612
GB2040334 A1	19800828	GB19790040632	19791123
GB2040334 B2	19830511	GB19790040632	19791123
GR73603 B	19840326	GR19790169434	19791106
IE49009 B	19850710	IE19790002375	19791210
IE792375 L	19800611	IE19790002375	19791210
IL58909 A0	19800331	IL19790058909	19791210
IL58909 A1	19820430	IL19790058909	19791210
IN153401 A	19840714	IN1979DE00818	19791115
IT1119965 A	19860319	IT19790069369	19791210
IT7953791 U0	19791210	IT19790053791U	19791210
IT7969369 A0	19791210	IT19790069369	19791210
JO1045 B	19820710	JO19790001045	19791210
JP1348481 C3	19861113	JP19790159861	19791211
JP55081949 A2	19800620	JP19790159861	19791211
JP61014299 B4	19860418	JP19790159861	19791211
KE3638 A	19860620	KE19860003638	19860522
LU81973 A	19800701	LU19790081973	19791210
MA18642 A1	19800701	MA19790018843	19791112
MX149994 A	19840227	MX19790180400	19791210
MY8500986 A	19851231	MY19850000986	19851230
NO794015 A	19800612	NO19790004015	19791210
NZ192297 A	19830715	NZ19790192297	19791204
OA6422 A	19810731	OA19790056971	19791211
PL128820 B1	19840331	PL19790220316	19791211
PL220316 A1	19801020	PL19790220316	19791211
PT70541 A	19800101	PT19790070541	19791204
TR22071 A	19860311	TR19790022071	19791210
US4364206 A	19821221	US19790100374	19791205
ZA7906670 A	19801126	ZA19790006670	19791210

Priority: CA19790339943 19791115; FR19780034744 19781211; FR19790011027 19790502; FR19790014983 19790612;

Cited documents: US4065905 A, US3971172 A, US3818654 A, US3727753 A, US3623296 A, US3550334 A, US3484999 A, US3461633 A, US3430398 A, US3293814 A, US3256652 A, US1995573 A, US1362069 A, GB1257500 A, GB1067888 A, FR89760 E, FR2329814 A1, FR2320398 A1, FR2234431 A1, FR2211630 A1, FR2171448 A1, FR1334474 A, FR1260059 A, DE2719953 A1, DE2601850 A1, DE2437400 A1, DE2386482 A1, DE2118859 A1, DE2018402 A1, DE1965417 A1, DE1953657 A1, DE1928917 A1, AU5045169 A1, AU50451 A1, AU290175 A1, Assignee(s): (std): JACQUES WYBAUW BE ; JIYATSUKU UIBOO ; WYBAUW JACQUES AUGUSTE RENE ; WYBAUW J ; WYBAUW JACQUES ; WYBAUM JACQUES ; WYRAUW JACQUES BE ; REBUILD WORLD RBW SA ; WYBAUW JACQUES BE Assignee(s): JACQUES WYBAUW ; REBUILD WORLD RBW S A A CORP OF LUXEMBURG ; REBUILD WORLD RBW S A ; WYBAUW JACQUES AUGUSTE RENE

BRUESSEL ; REBUILD WORLD R B W SA ; JATSUKU UIBOO

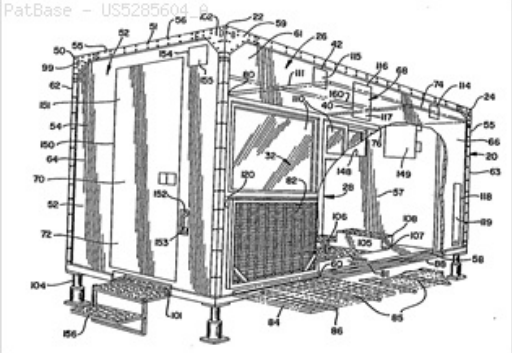
Inventor(s): ^(std) WYBAUW JACQUES ; WYRAUW JACQUES ; WYRAUW JACQUES BE ; WYBAUW JACQUES BE ; WYBAUW J ; WYBAUM JACQUES ;
JIYATSUKU UIBOO ; JATSUKU UIBOO ; JACQUES WYBAUW

Designated states: DE FR NL SE

38) Family number: 9769535 (US5285604A)
Title: Containerized field kitchen

Abstract:

Source: US5285604A A special mobile kitchen provides an impact-resistant food service trailer and a rapid deployment, containerized field kitchen unit which can be quickly transported to a remote field location by helicopter or other aircraft as well as by ship or land transportation. Advantageously, the mobile kitchen has thermally insulating composite walls so that the kitchen unit can effectively function even at freezing temperatures and dessert conditions. The composite walls can be readily assembled from **modular** components comprising lightweight, high strength fiberglass panels for easy storage and economical transport. Desirably, the high tech panels are constructed with numerous access openings for ready access to work stations in the kitchen for better service, repair, maintenance, and adjustments and for enhanced supply and delivery of food. During storms and inclement weather, the access openings can be closed and secured with impact-resistant doors and shutters.



International class (IPC 8-9): B60P3/14 E04B1/343 E04H1/12 (Advanced/Invention);
B60P3/14 E04B1/343 E04H1/12 (Core/Invention)
International class (IPC 1-7): B60P3/025 E04B1/343 E04H1/12 E04H3/04
CPC: B60P3/14 E04B1/34336 E04H1/1205 E04H2001/1283
European class: B60P3/14 E04B1/343D E04H1/12B P04H1/12R
US class: 52/143 52/36.2 52/362 52/79.1 52/79.5 52/791 52/795 D25/033 D25/33
Family:

Publication number	Pub. date	Application number	App. date
AT180299 E	19990615	AT19920921989T	19921006
DE69229231 D1	19990624	DE19926029231	19921006
DE69229231 T2	19990923	DE19926029231T	19921006
EP0607318 A1	19940727	EP19920921989	19921006
EP0607318 A4	19951004	EP19920921989	19921006
EP0607318 B1	19990519	EP19920921989	19921006
US5285604 A	19940215	US19910775705	19911010
WO9307348 A1	19930415	WO1992US08496	19921006

Priority: US19910775705 19911010; WO1992US08496 19921006;

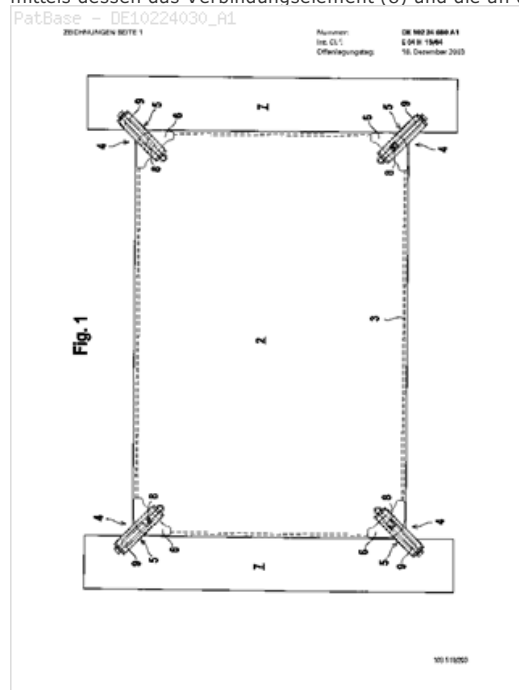
Cited documents: WO8602688 A1, US4955752 A, US4817360 A, US4601509 A, US3441975 A, US2904850 A, US2893075 A, US2866235 A, US2219837 A, LU74492 A, DE3241242 A1,
Assignee(s): (std): CARLIN MANUFACTURING INC ; CARLIN MFG ; TCBY ENTERPRISES INC
Assignee(s): CARLIN MFG INC ; CARLIN MFG INC FRESNO CALIF US
Inventor(s): (std): CARLIN KEVIN
Inventor(s): CARLIN KEVIN FRESNO CA 93711 US
Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL SE

39) Family number: 30158883 (DE10224030A1)

Title: System for stretching flexible areal objects comprises corner clamping units with clamping elements movable by means of a connector element in a guide attached to a support structure Spannsystem

Abstract:

Source: DE10224030A1 The system for stretching flexible areal objects (2) comprises corner clamping units (4) with clamping elements (6) movable by means of a connector element (8) in a guide (5) attached to a support structure (7). The connector element is attached to a clamping bolt (9) by means of which it is stoppable together with the clamping element (6) in a specified position in the guide (5). Die Erfindung betrifft ein Spannsystem (1) zum Spannen von flexiblen Flächengebilden (2) mit an deren Ecken fixierten Spannvorrichtungen (4). Jede Spannvorrichtung (4) weist eine Fixiereinheit (6) zur Fixierung einer Ecke des Flächengebildes (2) auf. Die Fixiereinheit (6) ist mittels eines Verbindungselements (8) in einer an einer Unterlage (7) fixierten Fuehrung (5) gefuehrt, wobei das Verbindungselement (8) an einen Spannbolzen (9) gekoppelt ist, mittels dessen das Verbindungselement (8) und die an diese gekoppelte Fixiereinheit (6) in einer Sollposition der Fuehrung (5) arretierbar sind.



International class (IPC 8-9): B63B17/02 E04B9/30 E04H15/64 F16B5/06 F16B7/06 G09F15/00 (Advanced/Invention); B63B17/00 E04B9/30 E04H15/32 F16B5/06 F16B7/00 G09F15/00 (Core/Invention)

International class (IPC 1-7): B63B17/00 D06C3/08 E04B9/04 E04F13/00 E04H1/12 E04H15/32 E04H15/64

CPC: B63B17/02 E04B9/303 E04H15/64 F16B5/0692 F16B7/06 G09F15/0025

European class: B63B17/02 E04B9/30B E04H15/64 F16B5/06D F16B7/06 G09F15/00B4

Family:

Publication number	Pub. date	Application number	App. date
DE10224030 A1	20031218	DE20021024030	20020531
DE10224030 B4	20050310	DE20021024030	20020531

Priority: DE20021024030 20020531;

Cited documents: JP10231646 A2, FR2262167 A1, EP0980947 A1, DE3830576 A1, DE122167 B2,

Assignee(s): (std): GINZINGER HELMUT

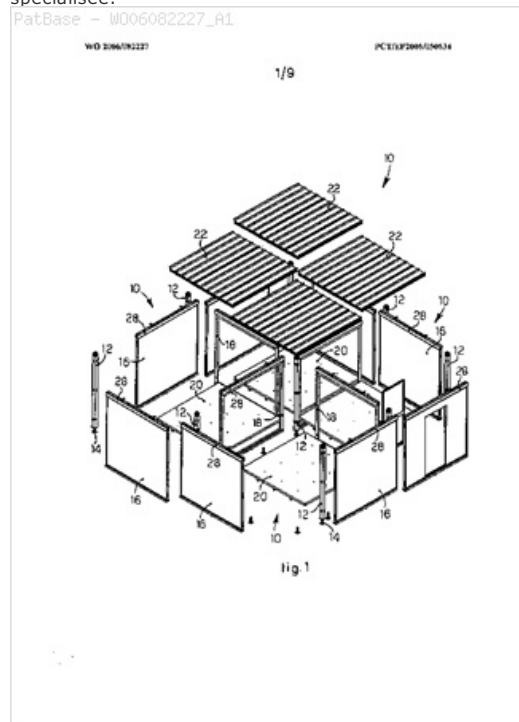
Inventor(s): (std): GINZINGER HELMUT

40) Family number: 33189138 (WO06082227A1)

Title: PREFABRICATED SECTIONAL LIVING MODULE, EXTENDABLE IN EVERY DIRECTION ACCORDING TO DESIGNS OF ANY SHAPE MODULE D'HABITATION A ELEMENTS PREFABRIQUES EXTENSIBLE DANS TOUTES LES DIRECTIONS ET TOUTES LES FORMES

Abstract:

Source: WO06082227A1 The prefabricated module (10) according to the present invention is the elementary living unit, made up with an unlimited number of units of the same type, so as to create spaces of any size (multiples of the size of the single module) usable for living purposes. Each of the unitary modules (10) consists of the easy aggregation of components (16, 18, 20, 22) of limited weight, transportable both by hand and also in the form of pallets where mechanical lifting and transport means are available. The module (10) is designed mainly for use in emergency situations, where there is a need to create living spaces (of different sizes for the different functional requirements) in prefabricated structures with suitable heat insulation, but where frequently there are no mechanical lifting and transport means available, which on the contrary are necessary for positioning and using the usual prefabricated modules. Apart from the easy transport, even by hand, of the individual elements (16, 18, 20, 22) which make up the living module, it is also characterized by an assembly system which is extremely rapid and equally easy, and which does not require specialized manpower. La presente invention a pour objet un module prefabrique (10) qui constitue l' unite d'habitation elementaire, compose d'un nombre illimite d'unites du meme type afin de creer des espaces de toutes tailles (multiples de la taille du module simple) utilisables a des fins d'habitation. Chacun des modules unitaires (10) est compose par l'accumulation facile d'elements (16, 18, 20, 22) de poids limite, pouvant etre transportes a la main ou sous forme de palettes lorsque des moyens de levage mecanique et de transport sont disponibles. Le module (10) est concu principalement pour un usage en situation d'urgence lorsqu'il est necessaire de creer des espaces d'habitation (de tailles differentes selon les differentes fonctionnalites) dans des structures prefabriquees a isolation thermique adaptee mais qu'aucun moyen de levage mecanique et de transport n'est disponible, moyens en revanche necessaires pour le positionnement et l'utilisation des modules prefabriques traditionnels. Outre le transport facile, meme a la main, des elements individuels (16, 18, 20, 22) qui composent le module d'habitation, ce dernier est aussi caracterise par un systeme d'assemblage extremement rapide et facile ne requerant aucune main-d'oeuvre specialisee.



International class (IPC 8-9): E04B1/343 E04H1/02 (Advanced/Invention); E04B1/343 E04H1/02 (Core/Invention)

CPC: E04B1/34315 E04H1/02

European class: E04B1/343C E04H1/02

Family:

Publication number	Pub. date	Application number	App. date
EP1863981 A1	20071212	EP20060707995	20060203
ITPN20050003 U1	20060805	IT2005PN00003U	20050204
WO06082227 A1	20060810	WO2006EP50634	20060203

Priority: IT2005PN00003U 20050204; WO2006EP50634 20060203;

Cited documents: US3461633 A, FR2838765 A3, FR2610964 A1, EP0974705 A1, EP0039592 A1,

DE202004014164 U1

Assignee(s): (std): TRAVAN FRANCO MARIA LEONE ; TRIMED PRO SRL

Inventor(s): (std): TRAVAN FRANCO MARIA LEONE

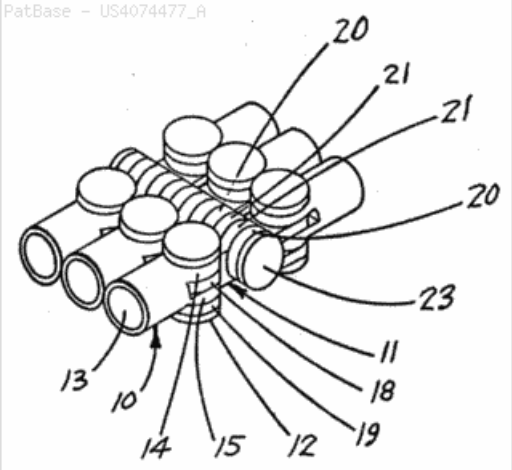
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG 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

41) Family number: 6930432 (US4074477A)

Title: Modular building structure

Abstract:

Source: US4074477A Building structures formed from repeating alternating mirror-image forms of basic mathematically determinate structural modules. The structure is applicable to the construction of buildings without internal supporting pillars or other structural supports which form interior obstructions. Such structures are especially adapted for such uses as auditoriums, concert halls, exhibition halls, field houses, storage buildings, stadium covers, etc. The structures are readily adapted for factory fabrication and partial assembly, shipment as partially assembled components and final on-site assembly. The structural modules are foldable. Structures may be assembled from modules in folded or collapsed condition at or near ground level and then erected by unfolding into structures of substantial length, width and height. The completed structures may take the form of a surface of revolution, such as a hemisphere, toroid, catenoid, etc., cylindrical surface, such as a barrel vault, free-form vault, plane, or various combinations of these forms.



International class (IPC 8-9): E04B1/32 E04B1/343 E05D3/10 F16B7/00 (Advanced/Invention);

E04B1/32 (Advanced/Non-invention);

E04B1/32 E04B1/343 E05D3/00 F16B7/00 (Core/Invention);

E04B1/32 (Core/Non-invention)

International class (IPC 1-7): E04B1/32 F16D3/00

CPC: E04B1/32 E04B1/34378 Y10S52/10 F16B7/00 E04B2001/3235 E04B2001/3241 E04B2001/327 E04B2001/3294 E05D3/10 Y10T403/32016 Y10T403/32049 Y10T403/32081

European class: E04B1/32 E04B1/343F3 E05D3/10 F16B7/00 P04B1/32M P04B1/32M1 P04B1/32P P04B1/32S

US class: 403/54 403/58 403/62 52/646 52/653.1 52/71 52/86 52/DIG.10

Family:

Publication number	Pub. date	Application number	App. date
US4074477 A	19780221	US19730397765	19730917
US4111574 A	19780905	US19760744984	19761126
US4145850 A	19790327	US19780879073	19780221

Priority: US19710145768 19710521; US19730397765 19730917; US19760744984 19761126; US19780879073 19780221;

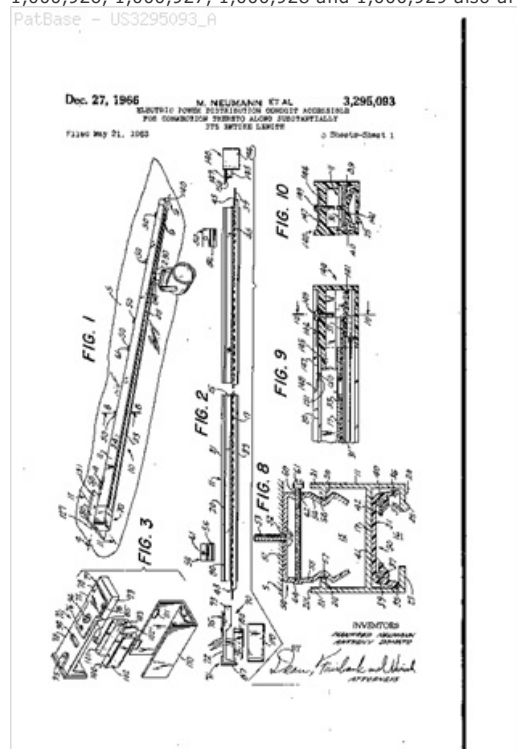
Cited documents: US430597 A, US4074477 A, US3894352 A, US3830031 A, US3656267 A, US3584400 A, US3531851 A, US3524288 A, US3445970 A, US3374588 A, US3346998 A, US3325958 A, US3186524 A, US1506114 A, US1336324 A, US1284984 A, US1185199 A, GB391127 A, GB1170786 A, FR905185 A, FR405398 A, FR25503 E, FR2255434 A1, FR1340142 A, AT224317 B,

Assignee(s): (std): RUNYON JOHN F

Inventor(s): (std): RUNYON JOHN F

42) Family number: 30985139 (US3295093A)**Title:** ELECTRIC POWER DISTRIBUTION CONDUIT ACCESSIBLE FOR CONNECTION THERETO ALONG SUBSTANTIALLY ITS ENTIRE LENGTH**Abstract:**

Source: GB1000923A 1,000,923. Power-distribution tracks. LIGHTOLIER Inc. Nov. 15, 1963 [May 21, 1963], No. 45145/63. Drawings to Specification. Heading H2E. The entire subject-matter of this Specification is contained within Specification 1,000,930 but the claims are directed to the conductor support for mounting within the channel-shaped member of the power-distribution track. Specifications 1,000,924, 1,000,925, 1,000,926, 1,000,927, 1,000,928 and 1,000,929 also are referred to.



International class (IPC 8-9): F16B7/04 F16K15/02 F16K17/10 F21V21/34 F21V21/35 H01R13/629 H01R13/64 H01R17/20 H01R25/12 H01R25/14 H02B1/04 H02B1/052 H02B1/34 H02G3/04 H02G3/08 H02G3/16 H02G3/20 H02G3/26 H02G3/34 (Advanced/Invention); H01R13/20 H01R13/64 (Advanced/Non-invention); F16B7/04 F21V21/34 H01R25/00 H02B1/00 H02B1/015 H02G3/04 H02G3/08 H02G3/16 H02G3/18 H02G3/30 (Core/Invention); H01R13/02 H01R13/64 (Core/Non-invention)

International class (IPC 1-7): E04B5/54 F16B7/04 F21V21/34 H01R25/14 H01R25/16 H01R41/00 H02B1/04 H02B9/00 H02G1/02 H02G3/04 H02G3/16 H02G3/26 H02G5/04 H02G5/08

CPC: F21V21/35 H02G3/16 H02G3/266 H01R13/20 H01R13/64 H01R25/14 H01R25/142 H02G3/04 H02G3/263 F21V21/025

European class: F21V21/34 H01R25/14 H01R25/14B H02G3/04 H02G3/16 H02G3/26B H02G3/26C R21V21/02A T01R13/20 T01R13/64

US class: 174/48 174/491 174/493 200/51R 248/228.1 248/317 248/343 248/72 439/110 439/118 439/65 52/220.1

Family:

Publication number	Pub. date	Application number	App. date
AU4487964 A1	19651125	AU19640044879	19640522
AU4488364 A1	19651125	AU19640044883	19640522
BE648180 A	19640916	BE19640648180	19640520
CH410102 A	19660331	CH19640006603	19640521
DE1465875 A1	19690703	DE19631465875	19631213
DE1465875 B2	19721026	DE19631465875	19631213
DE1465875 C3	19730517	DE1963L046581	19631213
DE1465876 A1	19690703	DE19631465876	19631213
DE1465876 B2	19731011	DE19631465876	19631213
DE1465900 A1	19690508	DE19641465900	19640403
DE1996965 U	19681121	DE19691996965U	19631213
DE1996965 U	19681121	DE19681996965U	19680808
DE6600375 U	19690116	DE19660000375U	19631213
DK106440 C	19670206	DK19640002518	19640520
DK109096 C	19680318	DK19640003357	19640703
DK109750 C	19680624	DK19640002519	19640520
ES300113 A1	19641201	ES19640300113	19640521
FR1398249 A	19650507	FR19640975226	19640521
GB1000923 A	19650811	GB19630045145	19631115
GB1000924 A	19650811	GB19630045146	19631115
GB1000925 A	19650811	GB19630045147	19631115
GB1000926 A	19650811	GB19630045148	19631115
GB1000927 A	19650811	GB19630045149	19631115
GB1000928 A	19650811	GB19630045150	19631115
GB1000929 A	19650811	GB19630045151	19631115
GB1000930 A	19650811	GB19630045152	19631115
NL141334 B	19740215	NL19640002600	19640312
NL147286 B	19750915	NL19640002601	19640312
NL6402589 A	19650215	NL19640002589	19640312
NL6402600 A	19641123	NL19640002600	19640312
NL6402601 A	19641123	NL19640002601	19640312
SE315319 B	19690929	SE19640006141	19640520
SE321518 B	19700309	SE19640006451	19640527
US3246074 A	19660412	US19630301481	19630812
US3286052 A	19661115	US19630288420	19630617
US3295093 A	19661227	US19630282538	19630521

Priority: FR19640975226 19640521; US19630282538 19630521; US19630288429 19630617; US19630288420 19630617; US19630301481 19630812;

Cited documents: US3094584 A, US3051772 A, US3042889 A, US3019332 A, US3015897 A, US2977566 A, US2968690 A, US2966542 A, US2924804 A, US2888113 A, US2743423 A, US2384487 A, US2220825 A, US2209560 A, US2170300 A, US2134753 A, US2103072 A, US2039957 A, US1742850 A, US1298842 A, FR1250965 A,

Assignee(s): (std): LIGHTOLIER INC ; LIGHTOLIER INC NEW YORK

Assignee(s): LIGHTOLIER INC NEW YORK N Y V ST A ; LIGHTOLLER INC

Inventor(s): (std): NJ ; NEUMANN MANFRED RIVER EDGE ; NEUMANN M ; MANFRED NEUMANN ; DONATO ANTHONY WOODRIDGE ; DONATO ANTHONY ; DONATO A ; ANTHONY DONATO ; NEUMANN MANFRED ; DONATO ANTONY

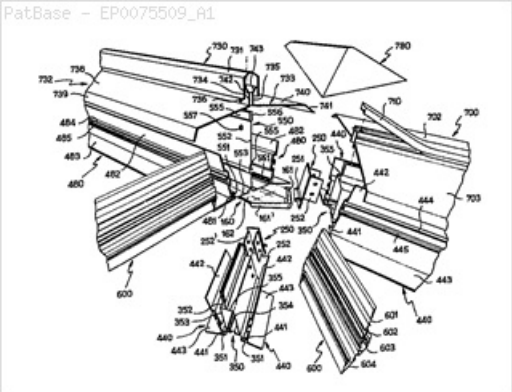
Inventor(s): MANFRED NEUMANN AND ANTHONY DONATO ; DONATO ANTONY WOODRIGE

43) Family number: 18279047 (EP0075509A1)

Title: Hinged girder composed of light metal sections. Gelenkige Traegerkonstruktion aus Leichtmetallprofilen. Charpente articulee formee de profiles en alliage leger.

Abstract:

Source: EP0075509A1 1. Structure intended for supporting the roofing of a construction, in which the said roofing consists of different non-coplanar faces which intersect to form edges, characterised in that it consists of: - at least one elongate base profile (300, 350) which forms an edge between two of the said faces of the roofing, and comprises a central web (302, 352) on either side of which are positioned, in longitudinal direction, elements (301, 351), for a longitudinal hinge, so called first hinge, - bearing profiles (400, 440) supporting the elements of the roofing and each one being provided with a longitudinal hinge element (401, 441) complementary to those of the base profile, with one of which the said element is intended to engage to form the said first hinge, - a first support section (100, 120, 140, 160) provided with at least one element (101, 121, 141, 161) for a transverse hinge, so called second hinge, - at least one second support section (200, 250), provided with a transverse hinge element (201, 251), complementary to that of the first support section, with which it is intended to engage to form the said second hinge, the said base profile (300, 350) being fixed to this second support section (200, 250) in a position, such that the axis of the longitudinal hinge elements (301, 351; 401, 441) and the transverse hinge elements (101, 121, 141, 161; 201, 251) are oblique with respect to each other and in a common plane. La charpente articulee comprend au moins un profile de base (350) muni d'elements (351) d'articulation longitudinale, des profiles d'appui (440) supportant les elements de la couverture et munis egalement d'elements d'articulation longitudinale (441) complementaire de ceux du profile de base, une premiere piece de soutien (160) munie d'au moins un element (161) d'articulation transversale et au moins une seconde piece de soutien (250) munie d'un element d'articulation transversale (251) complementaire de celui de la premiere piece de soutien, seconde piece de soutien sur laquelle est immobilise le profile de base.



International class (IPC 8-9): E04B7/02 E04B7/06 E04D3/06 E04D3/08 (Advanced/Invention); E04B7/02 E04B7/06 E04D3/02 (Core/Invention)

International class (IPC 1-7): E04B7/00 E04B7/02 E04B7/16 E04C3/40 E04D3/06 E04D3/08

CPC: E04B7/02 E04B7/06 E04B7/063 E04B2007/066 E04D3/06 E04D3/08 E04D2003/0806 E04D2003/0875 E04D2003/0881

European class: E04B7/02 E04B7/06 E04B7/06A E04D3/06 E04D3/08 P04B7/06A1 P04D3/08P1 P04D3/08S1 P04D3/08S2

Family:

Publication number	Pub. date	Application number	App. date
DE3262437 D1	19850328	DE19823262437	19820913
EP0075509 A1	19830330	EP19820401658	19820913
EP0075509 B1	19850220	EP19820401658	19820913
ES281696 Y	19851116	ES19820281696U	19820911
ES537241 A0	19850201	ES19820537241	19820911
ES8502753 A1	19850201	ES19820537241	19820911
FR2512866 A1	19830318	FR19810017498	19810916
FR2512866 B1	19840113	FR19810017498	19810916
OA7211 A	19840430	OA19820057803	19820916
PT75566 A	19821001	PT19820075566	19820915
PT75566 B	19840810	PT19820075566	19820915

Priority: FR19810017498 19810916;

Cited documents: US3928951 A, US3830029 A, US2541784 A, GB1562688 A, DE2328665 A1, DE2250314 A1, DE1189254 B, DE1189254 A, BE663041 A,

Assignee(s): (std): TECHNAL ; TECHNAL FRANCE

Inventor(s): (std): BRUNIQUEL SILVIE ; BRUNIQUEL SYLVIE ; CACHIA YVES

Inventor(s): SILVIE BRUNIQUEL ; YVES CACHIA ; YVES CACHIA ET SYLVIE BRUNIQUEL

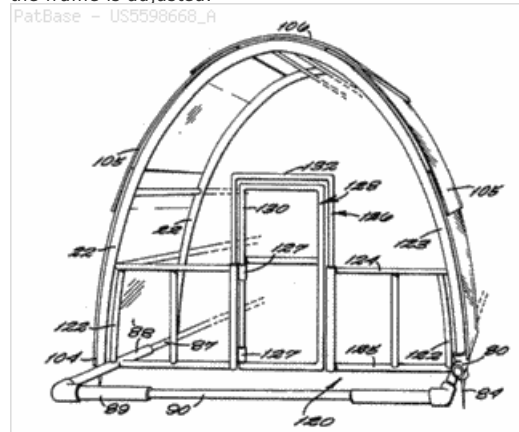
Designated states: BE CH DE GB IT LI LU NL

44) Family number: 12935323 (US5598668A)

Title: ADJUSTABLE BUILDING FRAME

Abstract:

Source: US5598668A The invention is an adjustable building frame comprising a plurality of interfitting parts. The frame includes a base having a pair of opposing receiving surfaces and several parallel roof members received and connected by and between the receiving surfaces. The roof members are generally perpendicular to the opposing receiving surfaces of the base. Each roof member comprises at least two telescoping sections which may be telescoped together or apart to adjust the length of the roof member. Increasing the length of each roof member of the frame increases the height and volumetric area defined by the frame, and decreasing the length of the roof members decreases the height and volumetric area defined by the frame. A flexible **cover** is attachable to the roof members by a plurality of clasps or a flexible but more rigid **cover** is attachable to the roof members by a series of bolts. The **cover** ideally overlaps itself, so that it will expand or retract as the height of the frame is adjusted.



International class (IPC 8-9): A01G9/16 E04B1/32 E04H15/36 E04H15/46 (Advanced/Invention);

A01G9/16 E04B1/32 E04H15/34 (Core/Invention)

International class (IPC 1-7): E04B1/32

CPC: Y02A40/254 E04B1/3205 A01G9/16 E04B2001/3247 E04B2001/3252 E04H15/36 E04H15/46

European class: A01G9/16 E04B1/32B E04H15/36 E04H15/46 P04B1/32M1B P04B1/32M2

US class: 135/118 135/119 135/120.3 135/121 135/138 135/140 135/142 52/64 52/81.3 52/813 52/86 52/860

Family:

Publication number	Pub. date	Application number	App. date
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US5598668 A	19970204	US19950539191	19951004
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Priority: US19950539191 19951004;

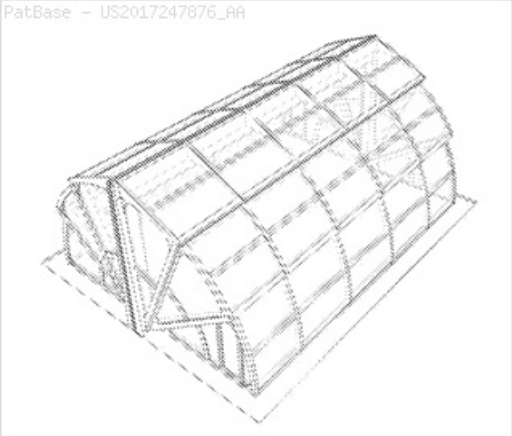
Cited documents: US5487402 A, US5255698 A, US4414993 A, US4257132 A, US4091584 A, US3995649 A, US3957069 A, US3855643 A, US3480023 A, US3441037 A, US3424178 A, US3423767 A, US3165110 A, US3051185 A, US2964759 A, US2771896 A, US2565746 A, US2488809 A, US246118 A, US2182283 A, US2144747 A, US1061547 A, FR1276112 A, FR1159914 A, FR1115615 A,

Assignee(s): (std): ISOM FRED S

Inventor(s): (std): ISOM FRED S

45) Family number: 62735712 (US2017247876A)
Title: MULTIFUNCTIONAL ENCLOSURE

Abstract:
Source: US2017247876A A manual or motor activated enclosure, appropriate for any surface to be enclosed, comprising matching opposite cross-linked structures containing a set of profiles that fits in the field of telescopic modular pivoting roof structures, that upon retraction it is housed underground such that none of its components are visible above ground, and upon deployment it achieves complete enclosure of the area while providing for openings.



International class (IPC 8-9): E04B1/343 E04D13/035 E04H3/00 E04H5/00 E04H7/00 E04H9/00 (Advanced/Invention)
CPC: E04B1/34305 E04B1/34363 E04D13/035 E04H3/165
Family:

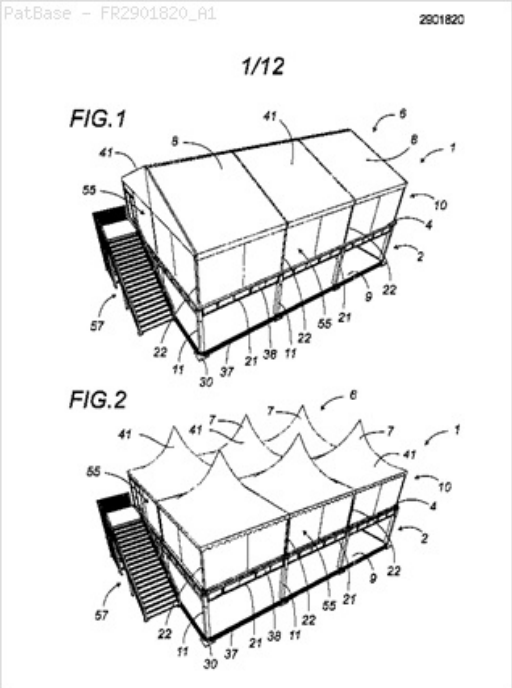
Publication number	Pub. date	Application number	App. date
AR092636 AA	20150429	AR2013P103381	20130920
US2017247876 AA	20170831	US20140491947	20140919
US9797126 BB	20171024	US20140491947	20140919

Priority: AR2013P103381 20130920; US20140491947 20140919;

Cited documents: ZA02072969 A1, WO02072969 A1, US6604327 BA, US6430879 BA, US5687816 A, US5233799 A, US5203125 A, US3845591 A, US2016281349 AA, US2015121778 AA, US2011308173 AA, US2003014927 AA, ES2063610 AB, EP0253411 A3, EP0253411 A2,
Assignee(s): (std): SAGGESE SEBASTIAN
Inventor(s): (std): SAGGESE SEBASTIAN ; SEBASTIAN SAGGESE

46) Family number: 40924945 (FR2901820B)
Title: CONSTRUCTION PREFABRIQUEE MODULAIRE LEGERE, A DEUX NIVEAUX ET A CARACTERISTIQUES ARCHITECTURALES MULTIPLES
Abstract:

Source: FR2901820B The construction (1) has four lower posts (11) connected to each other in two by two manner in an upper part by a connection beam (21). Each post is articulated on a ground plate (30) in pivot manner. The beam presents, with two of the adjacent posts, a single retractable portal frame in constitution with its homologous portal frame of a cell (3). A head of upper posts (22) placed on a **cover** edge receives an end of a gutter (42) evacuating rain water by a decent formed by succession of inner hollow volumes of the upper posts and the lower posts on which the upper posts are mounted.



International class (IPC 8-9): E04B1/19 E04B1/24 E04B1/343 E04B1/348 E04H15/00 (Advanced/Invention);
E04B1/19 E04B1/24 E04B1/343 E04B1/348 E04H15/00 (Core/Invention)
CPC: E04B2001/2415 E04B2001/2454 E04B2001/246 E04B2001/2463 E04H15/18
European class: E04H15/18 P04B1/24B4 P04B1/24B42 P04B1/24B51 P04B1/24B52
Family:

Publication number	Pub. date	Application number	App. date
FR2901820 A1	20071207	FR20060004893	20060601
FR2901820 B1	20080711	FR20060004893	20060601

Priority: FR20060004893 20060601;

Cited documents: US5596860 A, FR2652113 A1, FR1386121 A,
Assignee(s): (std): BRELET SAS SOC PAR ACTIONS SIM
Assignee(s): BRELET SAS SOC PAR ACTIONS SIMPLIFIEE ; BRELET SAS SOCIETE PAR ACTIONS SIMPLIFIEE ; BRELET SAS
Inventor(s): (std): PENTECOTE BRUNO
Inventor(s): BRUNO PENTECOTE

47) Family number: 65747438 (CO20160004361A)
Title: SISTEMA CONSTRUCTIVO CON ELEMENTOS ESTRUCTURALES OPTIMIZADOS PARA LA CONSTRUCCION DE DOMOS GEODESICOS PORTATILES PREFABRICADOS Constructive system with structural elements optimized for the construction of prefabricated geodesic domes.
(Machine translation)

- 30 -

geodésica (10). Por medio de la unión (3.3) se pueden ensamblar entre sí múltiples elementos estructurales optimizados (2) de diferentes formas geométricas, con el fin de conformar un sistema constructivo de domos geodésicos prefabricados (10), en donde la unión (3.3) de elementos estructurales optimizados (2) proporciona una estructura constructiva auto-portante, sólida, flexible, resistente y sellada con el fin de garantizar su impermeabilidad y evitar filtraciones. (Ver figuras No.5, No.8, No.10, No.11, No.14, No.17, No.18, No.19, No.20, No.21, No.22, No.23, No.24, No.25 y No.26).

El sistema constructivo (1) con elementos estructurales optimizados (2) para la construcción de domos geodésicos prefabricados (10) proporciona la generación de espacios habitables mediante la interconexión de los elementos estructurales optimizados (2) a través de una unión (3) que tiene tres disposiciones constructivas (3.1, 3.2, 3.3), los cuales conforman construcciones habitables en forma de esfera o domo geodésico (10), estos domos geodésicos (10) están conformados por elementos estructurales optimizados (2) de formas geométricas tales como triángulos, rectángulos, pentágonos y hexágonos, sometidas a tensión, la cual funcionan con el principio del arco, el cual permite distribuir las fuerzas en tensión de forma homogénea a través de todo el sistema constructivo de domos geodésicos prefabricados (10), asimismo permite la acción de plegado o doblado según el ángulo o pliegue recomendado para empezar a formar la estructura geodésica (10) que se desea construir. (Ver figuras No.1, No.2, No.3, No.4, No.5, No.6, No.7, No.8, No.9, No.10, No.11, No.12, No.13, No.14, No.15, No.16, No.17, No.18, No.19, No.20, No.21, No.22, No.23, No.24, No.25, No.26, No.27, No.28, No.29 y No.30).

BREVE DESCRIPCIÓN DE LAS FIGURAS:

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

Publication number	Pub. date	Application number	App. date
CO20160004361 A1	20170228	CO20160004361	20161121

Priority: CO20160004361 20161121;

Assignee(s): GUSTAVO ADOLFO SANTANDER LORA
Inventor(s): GUSTAVO ADOLFO SANTANDER LORA

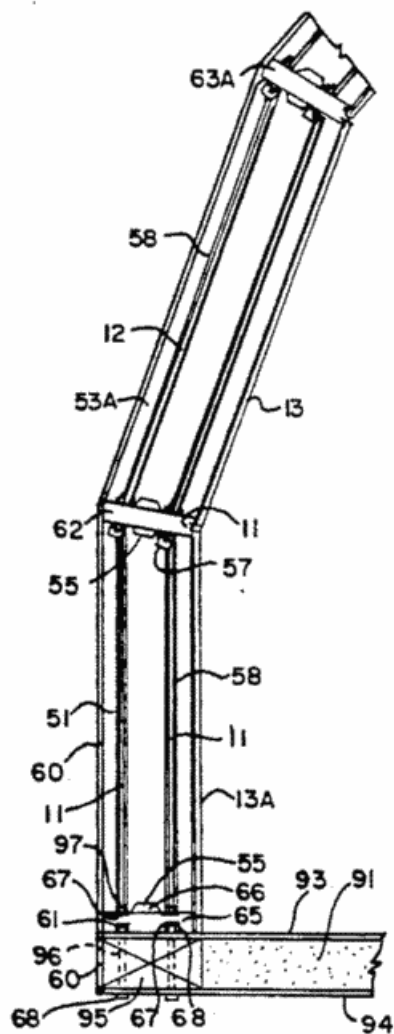
48) Family number: 11612326 (US5323573A)

Title: Building structure and method of erecting it

Abstract:

Source: US5323573A An easily transported and erected building structure formed of polystyrene foam blocks. The blocks are reinforced and held together by tension rods extending through the blocks and attached to connector boards between the blocks. Complex, habitable, highly energy-efficient structures are easily assembled and reassembled in various configurations by two workers without special skills or lifting equipment.

PatBase - US5323573_A



International class (IPC 8-9): E04B1/32 E04B1/343 (Advanced/Invention);
E04B1/35 (Advanced/Non-invention);
E04B1/32 E04B1/343 (Core/Invention);
E04B1/35 (Core/Non-invention)

International class (IPC 1-7): E04B1/32 E04G21/14

CPC: E04B1/3205 E04B1/34321 E04B2001/3217 E04B2001/3276 E04B2001/3583

European class: E04B1/32B E04B1/343C1 P04B1/32H P04B1/32P1 P04B1/35T

US class: 52/223.7 52/745.08 52/86 52/860

Family:

Publication number	Pub. date	Application number	App. date
US5323573 A	19940628	US19910748270	19910821

Priority: US19910748270 19910821;

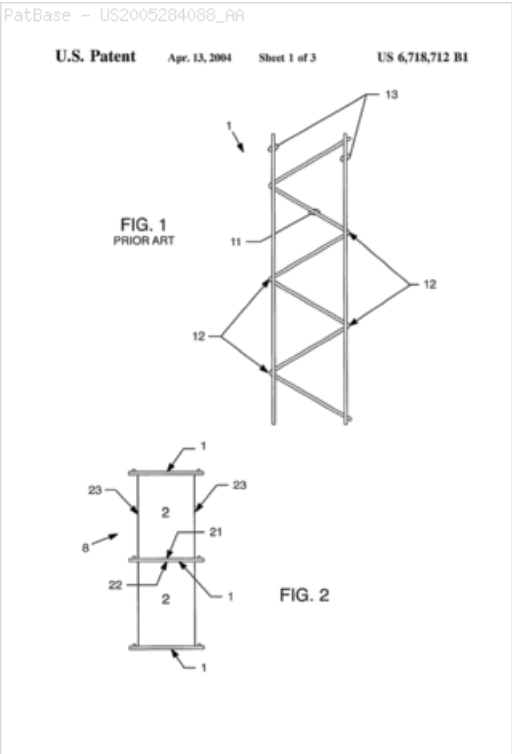
Cited documents: US4907383 A, US4903446 A, US4890437 A, US4887397 A, US4774794 A, US4731279 A, US4641468 A, US4403980 A, US4343125 A, US4294051 A, US4071986 A, US4071985 A, US4023317 A, US3984950 A, US3974601 A, US3815307 A, US3810337 A, US3310917 A, US3043054 A, US2874812 A, US2378275 A, US1723216 A, GB643355 A, GB1049861 A, EP0091534 A1, AU292650 A1,

Assignee(s): (std): HYPERTAT CORP

Inventor(s): (std): BAKEWELL III EDWARD L

49) Family number: 30465278 (US2005284088A)
Title: STRUCTURAL PANEL AND METHOD OF FABRICATION

Abstract:
Source: US2005284088A A process for manufacturing a structural panel includes determining structural loads to be placed upon the structural panel. The structural panel is manufactured from at least two generally parallel and spaced-apart thin-shell cementitious skins that are joined by a truss. The thickness of each cementitious skin is selected to meet the structural loads to be placed thereon and each skin is shaped to center reinforcement in the skin.



International class (IPC 8-9): E04B1/00 E04B2/00 E04B2/24 E04B2/84 E04C2/00 E04C2/04 E04C2/38 E04C3/02 E04F13/04 (Advanced/Invention); E04B2/86 (Advanced/Non-invention); E04C2/04 E04C3/02 E04F13/02 (Core/Invention)
International class (IPC 1-7): E04B1/00 E04B2/00 E04C1/00 E04F13/04
CPC: E04B2/845 E04B2/847 E04B2002/867 E04B2002/8688 E04C2/049 Y10S52/09 E04F13/047 E04C2/044 E04F13/04
European class: E04B2/84P2 E04B2/84P3 E04C2/04D E04C2/04F E04F13/04 E04F13/04C P04B2/86P P04B2/86S
US class: 52/309.12 52/368 52/405.3 52/454 52/633 52/741.1 52/741.100P 52/DIG.9
Family:

Publication number	Pub. date	Application number	App. date
CL2005002783 A1	20060901	CL20050002783	20051021
US2005284088 AA	20051229	US20050105177	20050412
US2006016146 AA	20060126	US20040823082	20040412
US6718712 BA	20040413	US20000539818	20000331
WO06047000 A2	20060504	WO2005US29419	20050817
WO06047000 A3	20070705	WO2005US29419	20050817

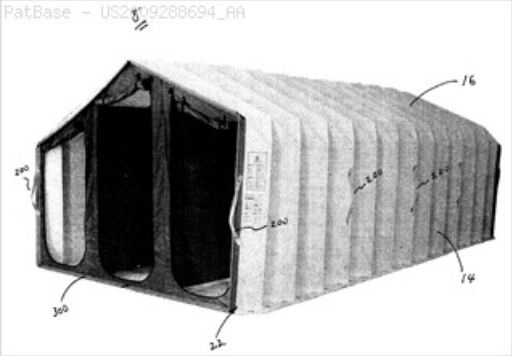
Priority: US19990127224P 19990331; US20000539818 20000331; US20040621195P 20041022; US20040823082 20040412; US20050105177 20050412;

Cited documents: US773244 A, US7073306 BA, US6898908 BB, US6705055 BB, US6622444 BB, US6272805 BA, US6244008 BA, US6226942 BA, US6185890 BA, US6061986 A, US5515659 A, US5487248 A, US5440845 A, US5398470 A, US5351454 A, US5119606 A, US5058345 A, US4785602 A, US4702053 A, US4669240 A, US4611450 A, US4541164 A, US4505019 A, US4454702 A, US4336676 A, US4297820 A, US4253288 A, US4226067 A, US4125981 A, US4104842 A, US4079560 A, US3879908 A, US3305991 A, US3232017 A, US1527805 A,
Assignee(s): (std): GREEN SANDWICH TECHNOLOGIES ; HEATH MARK D ; HEATH MARK DAVID
Assignee(s): MARK DAVID HEATH ; GREEN NDWICH TECHNOLOGIES SA
Inventor(s): (std): HEATH MARK DAVID ; HEATH MARK D
Inventor(s): HEATH MARK ; LTS LOHMANN THERAPIE SYSTEME AG ; BAYER SCHERING PHARMA AK
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

50) Family number: 34946491 (US2009288694A)
Title: COLLAPSIBLE SHELTER

Abstract:

Source: US2009288694 A shelter of the type having collapsed and expanded configurations. In one of several example embodiments, the expanded configuration includes a tunnel-shaped portion forming a pair of opposing side walls and a roof section. The roof section has a peak positioned above the side walls and the tunnel-shaped portion may include opposing ends with a first opening at the first end and a second opening at the second end, each opening capable of accommodating an end wall. A first sheet is foldable along at least first and second crease lines to define the walls and roof section, the walls having an upper separation distance between the first and second crease lines when the shelter is expanded. The first sheet is segmented into panels with pairs of adjoining panels forming pleats each having a vertex extending from a crease line to an adjoining footing flap, the walls having a lower separation distance between footing flaps on different walls when the shelter is expanded. The lower separation distance is greater than the upper separation distance resulting in at least one of the walls being canted with respect to a vertical orientation.



International class (IPC 8-9): B23P11/00 B23P17/00 E04B1/343 E04H15/32 E04H15/38 E04H15/40 E04H15/44 E04H15/48
E04H15/56 (Advanced/Invention);
E04B1/343 E04H15/32 E04H15/34 (Core/Invention)
CPC: E04B1/34378 Y10T29/49623 Y10T29/49947
European class: E04B1/343F3
US class: 135/121 135/121S 135/128 135/143 135/143S 135/144 135/148 135/157 29/525.01 29/525.010S 29/897.3 29/897.300S 52/18 52/79.5
52/83
Family:

Publication number	Pub. date	Application number	App. date
US2009288694 AA	20091126	US20070162023	20070124
US2011094554 AA	20110428	US20110985763	20110106
US7874304 BB	20110125	US20070162023	20070124
WO07087574 A2	20070802	WO2007US60994	20070124
WO07087574 A3	20081113	WO2007US60994	20070124

Priority: US20060762193P 20060125; US20070162023 20070124; WO2007US60994 20070124; US20070762193P 20070125;
US20090162023 20090209; US20110985763 20110106;

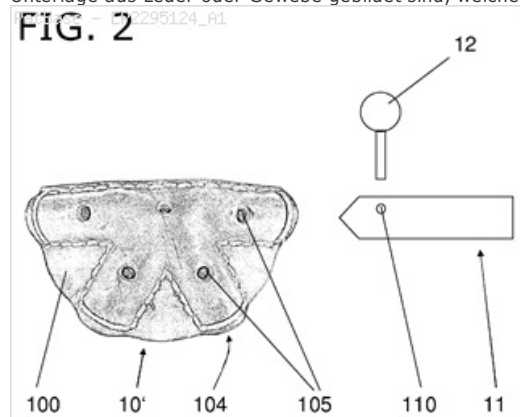
Cited documents: US6601598 BB, US6553725 BB, US6446397 BA, US6237668 BA, US6054194 A, US5234727 A, US4981732 A, US4120067 A, US3967023 A, US3854266 A, US3709237 A, US3629982 A, US3534512 A, US3443344 A, US3407546 A, US3346998 A, US3186524 A, US2007175162 AA, DE4003185 A1,
Assignee(s): (std): OSTROWSKI STEPHEN ; OSTROWSKI STEVE ; STRATEGIX LLC
Inventor(s): (std): OSTROWSKI STEPHEN ; OSTROWSKI STEVE
Designed 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

51) Family number: 48451702 (EP2295124A 1)

Title: KIT FOR CONSTRUCTING FRAMES AND METHOD FOR PRODUCING CONNECTION ELEMENTS AS SECTIONS OF THE KIT BAUSATZ ZUR BILDUNG VON GERUESTEN UND VERFAHREN ZUR HERSTELLUNG VON VERBINDUNGSELEMENTEN ALS TEILE DES BAUSATZES ENSEMBLE DE FORMATION D'ECHAFAUDAGES ET PROCEDE DE FABRICATION D'ELEMENTS DE LIAISON COMME ELEMENTS DE L'ENSEMBLE

Abstract:

Source: EP2295124A1 The kit comprises multiple edge bars (11) and multiple connecting elements (10') with multiple batten pockets (104), in which the ends of the edge bars are protected. The connecting elements have a top ply (100) and a lower ply made of leather or fabrics, which are connected by fastening units, particularly by a cord. An independent claim is also included for a method for manufacturing connecting elements of a kit. Es wird ein Bausatz fuer ein Geruest (1) in Form einer geodaetischen Kuppel beschrieben. Der Bausatz wird aus einer Mehrzahl von Kantenstaeben (11) und einer Mehrzahl von Verbindungselementen (10) gebildet, wobei die Kantenstaebe (11) in Stabtaschen der Verbindungselemente (10) drehgesichert fixierbar sind, wobei die Kantenstaebe (11) dreieckige ebene Flaechen bilden. Die Kantenstaebe (11) sind in Sicherungsaussparungen der Verbindungselemente (10) gehalten, wobei die Verbindungselemente (10) aus einer Oberlage und einer Unterlage aus Leder oder Gewebe gebildet sind, welche in einem speziellen Verfahren herstellbar sind.



International class (IPC 8-9): A63H33/00 E04B1/32 E04B1/58 E04B7/10 (Advanced/Invention); A63B9/00 (Advanced/Non-invention)

CPC: A63B9/00 E04B1/3211 E04B2001/3247 E04B2001/3294

European class: E04B1/32C K63B9/00 P04B1/32M1B P04B1/32S

Family:

Publication number	Pub. date	Application number	App. date
CH701821 A2	20110315	CH20090001422	20090915
CH701821 B1	20130131	CH20090001422	20090915
EP2295124 A1	20110316	EP20100175178	20100903

Priority: CH20090001422 20090915;

Cited documents: WO06079182 A1, US4876831 A,

Assignee(s): (std): DOMINIK ZILIOTIS ; ZILIOTIS DOMINIK

Inventor(s): (std): DOMINIK ZILIOTIS ; ZILIOTIS DOMINIK

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

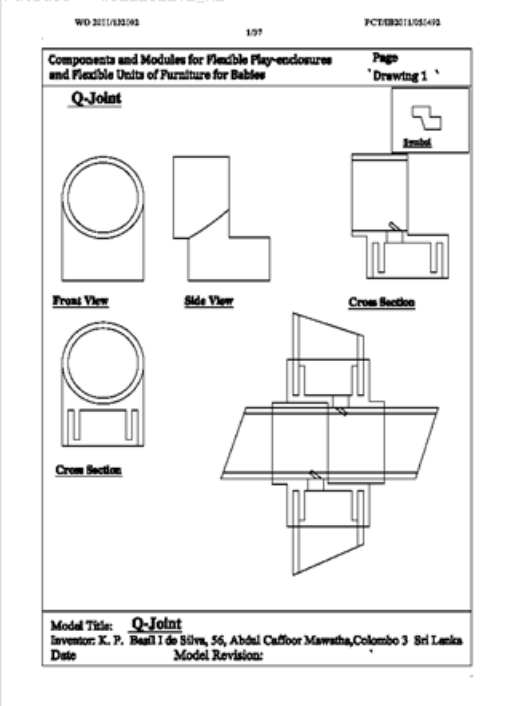
52) Family number: 49824865 (WO1132102A2)

Title: COMPONENTS AND MODULES FOR FLEXIBLE PLAY-ENCLOSURES WITH MULTI-PURPOSE PANELS COMPOSANTS ET MODULES POUR ENCEINTES DE JEU SOUPLES AVEC PANNEAUX A FONCTIONS MULTIPLES

Abstract:

Source: WO1132102A2 Multi-panel is primarily designed to achieve a gradual evolution of a simple and small enclosure for a child to a multi-faceted and multi-purpose enclosure for a child or several children. This possibility will enhance its usefulness beyond the normal use and also beyond the normal period of use of a playpen. Multi-Panel is also designed for assembly of expandable enclosures which have the attribute of (a) flexibility in taking numerous shapes and sizes in order to suit available floor area, (b) ability to be upgraded by adding one or many optional modules according to each customer's preferences and (c) ability to be folded and collapsed thus making its storage and transportability easier than any other play- enclosure. The flexibility of Multi-panels enables playpens, play-yards and other enclosures enhances their usefulness by being connected with said optional modules such as a door, toy-chest, table and/or a play-house. Due to the flexibility in the use of Multi-panels, the playpens and similar enclosures made with Multi-panels can be used for different purposes depending on each customer's preference. The new designs of components provide the flexibility in the making of many new designs: (a) of modules some of which are shown in the diagrams and (b) of end- products which are usable independently. The same components also make these end-products and modules, foldable and collapsible. L'invention porte sur un panneau multiple, qui est principalement concu pour permettre une evolution graduelle d'une enceinte simple et petite pour un enfant en une enceinte a facettes multiples et a fonctions multiples pour un enfant ou plusieurs enfants. Cette possibilite ameliorera son utilite au-dela de l'utilisation normale, et, egalement, au-dela de la periode d'utilisation normale d'un parc de jeu. Un panneau multiple est egalement concu pour l'assemblage d'enceintes extensibles qui ont l'attribut (a) de souplesse, du fait qu'elles peuvent prendre de nombreuses formes et tailles afin de s'adapter a la surface de sol disponible, (b) d'aptitude a etre transformees par addition d'un ou plusieurs modules optionnels en fonction des preferences de chaque utilisateur, et (c) d'aptitude a etre pliees et aplaties, de facon a rendre ainsi leur stockage et leur aptitude au transport plus faciles que pour tout autre enceinte de jeu. La souplesse de panneaux multiples permet a des parcs de jeu, a des terrains de jeu et a d'autres enceintes d'ameliorer leur utilite en etant reliees auxdits modules optionnels tels qu'une porte, une armoire a jouets, une table et/ou une maison de jeu. Du fait de la souplesse de l'utilisation des panneaux multiples, les parcs de jeu, et enceintes similaires, realisees avec des panneaux multiples, peuvent etre utilisees a differents usages en fonction de la preference de chaque utilisateur. Les nouvelles conceptions de composants procurent la souplesse dans la realisation de nombreuses configurations nouvelles: (a) de modules dont certains sont representes sur les schemas et (b) de produits finis qui sont utilisables de facon independante. Les memes composants permettent egalement a ces produits finis et a ces modules d'etre plies et aplaties.

PatBase - WO1132102_A2



International class (IPC 8-9): A47D13/06 A47D15/00 A63H33/00 E04B2/74 E04C2/52 (Advanced/Invention)

CPG: A47B47/005 A47D13/066 A47D15/003 A63H33/008 E04B2/7431 E04H15/006 F16B12/40

European class: A47B47/00H6 A47D13/06D A47D15/00B2 A63H33/00H E04B2/74C3D3B E04H15/00C F16B12/40

Family:

Publication number	Pub. date	Application number	App. date
IN02759MU0210 A	20120907	IN2010MU02759	20101004
WO1132102 A2	20111027	WO2011IB51492	20110407
WO1132102 A3	20120322	WO2011IB51492	20110407
WO1132102 A4	20120531	WO2011IB51492	20110407

Priority: LK20100015784 20100419; LK20110016218 20110318;

Cited documents: WO08152530 A1, US2007210293 AA, SL13948,

DE202006011605 U1

DE10342994 A1,

Assignee(s): (std): SILVA BASIL I DE

Assignee(s): K P BASIL IGNATIUS DE SILVA

Inventor(s): (std): SILVA BASIL I DE

Inventor(s): K P BASIL IGNATIUS DE SILVA

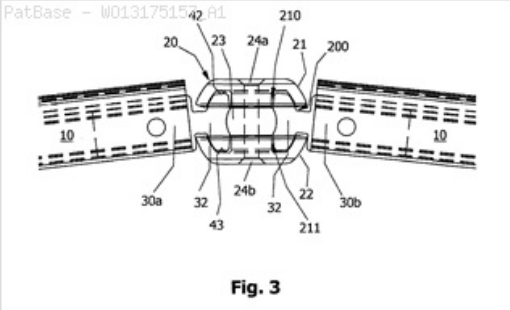
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ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

53) Family number: 51710345 (WO13175157A1)

Title: FRAME ASSEMBLY SYSTEM FOR GEODESIC FRAMED STRUCTURES SYSTEME D'ASSEMBLAGE D'OSSATURE POUR DES STRUCTURES A OSSATURE DU TYPE GEODESIQUE

Abstract:

Source: WO13175157A1 A node assembly for connecting a plurality of struts (10) in a framework (6) of a geodesic dome or other structure (2), comprising a hub (20) defining a toroidal retaining channel (42, 43) therewithin, and one or more retention elements (30a, 30b) each carried on or attachable to an end of a respective strut (10) and insertable into the retaining channel (42, 43). The hub (20) includes clamping means (24a, 24b) for clamping the or each retention element (30a, 30b) within the retaining channel (42, 43) once inserted therein, and the side walls defining the retaining channel (42, 43) in the hub (20) are configured and dimensioned such that the respective retention heads (32a, 32b) of the retention elements (30a, 30b) are substantially completely enclosed therein. The retention elements (30a, 30b) each preferably have a bifurcated retention head (32a, 32b) angled with respect to the main body (34) of the retention element for insertion into and retention within the retaining channel (42, 43) and pivotable therein to provide adjustment of the strut (10) before the clamping means (24a, 24b) are actuated to tighten and clamp the retention elements (30a, 30b) within the retaining channel (42, 43) in the hub (20). The system of node assemblies comprising hubs (20) and retention elements (30a, 30b) carried on the struts (10) allows for a simplified modular frame construction system based on a minimised number of different structural components. Once the frame is constructed, it may be clad by conventional means such as sheeting or discrete panels (120) of glass or plastics material anchored to the struts (10) via panel restraining devices (118, 130, 136). L'invention concerne un assemblage a noeuds a des fins de raccordement d'une pluralite de traverses (10) dans une charpente (6) d'un dome geodesique ou autre structure (2), comportant un moyeu (20) definissant un profile de retenue toroidal (42, 43) dans celui-ci, et un ou plusieurs elements de retenue (30a, 30b) portes chacun sur une ou en mesure d'etre attaches au niveau d'une extremite d'une traverse respective (10) et inserables dans le profile de retenue (42, 43). Le moyeu (20) comprend des moyens de serrage (24a, 24b) pour fixer ledit ou chaque element de retenue (30a, 30b) a l'interieur du profile de retenue (42, 43) une fois insere dans celui-ci, et les parois laterales definissant le profile de retenue (42, 43) dans le moyeu (20) sont configurees et dimensionnees de sorte que les tetes de retenue respectives (32a, 32b) des elements de retenue (30a, 30b) sont sensiblement entierement enfermees dans celui-ci. Les elements de retenue (30a, 30b) ont chacun de preference une tete de retenue bifurquee (32a, 32b) inclinee par rapport au corps principal (34) de l'element de retenue a des fins d'insertion dans le, et de retenue a l'interieur du, profile de retenue (42, 43) et en mesure de pivoter dans celui-ci pour permettre l'ajustement de la traverse (10) avant que les moyens de serrage (24a, 24b) ne soient actives pour serrer et fixer les elements de retenue (30a, 30b) a l'interieur du profile de retenue (42, 43) dans le moyeu (20). Le systeme des assemblages a noeuds comportant des moyeux (20) et des elements de retenue (30a, 30b) portes sur les traverses (10) permet un systeme de construction d'ossature modulaire simplifie base sur un nombre minimalise de differents composants de structure. Une fois l'ossature construite, elle peut etre revetue par des moyens traditionnels tels un revetement ou des panneaux discrets (120) en verre ou en plastique ancrés au niveau des traverses (10) par le biais de dispositifs de retenue de panneaux (118, 130, 136).



International class (IPC 8-9): E04B1/24 E04B1/32 (Advanced/Invention)
CPC: E04B1/3211 E04B2001/3247 E04B2001/3252 E04B2001/3294 E04B1/2403
Family:

Publication number	Pub. date	Application number	App. date
EP2852712 A1	20150401	EP20130729037	20130520
GB201208937 A0	20120704	GB20120008937	20120521
GB2502284 A1	20131127	GB20120008937	20120521
WO13175157 A1	20131128	WO2013GB00222	20130520

Priority: GB20120008937 20120521; WO2013GB00222 20130520;

Cited documents: US4843773 A, US3088559 A, US3006670 A, US2010139192 AA, GB2277539 A1,

Assignee(s): (std): SOLARDOME IND LTD

Assignee(s): SOLARDOME INDUSTRIES LTD

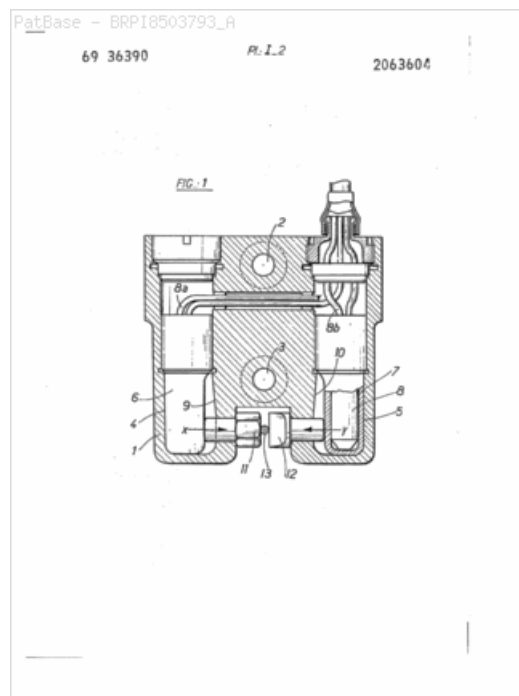
Inventor(s): (std): PRICE ANDREW JOHN

Inventor(s): ANDREW JOHN PRICE

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 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 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

54) Family number: 673909 (BRPI8503793A)**Title:** SISTEMAS DE COBERTURA AUTO-TENSIONADAS COVERAGE SYSTEMS AUTO-TENSIONED (Machine translation)**Abstract:**

Source: BRPI8503793A ii « •• >.....! «i =• y..;=- ! . RESITO ' Patente de invencao de "SISTEMAS.EE OCBEKTURA AinXMENSIONAnAS", - constituídas por arcos (2) tensionados, presos a sapata (3) e in ter ligados por cabos (4). Os elementos sao montados no chao e le 05 vantados com o auxilio de uma haste de alavanca (9). As sapatas de apoio dos arcos (3) sao constituídas -por duas placas rígidas e uma resiliente para apoio pivotante do pe de apoio (19) dos arcos (2)1 tensionados que sao formados por secoes de tubo (11), que poderao ser curvos ou retos, ligados por elementos de encaixe (8), todos - 10 sendo **modulares** o que possibilitara variacoes tanto nos arcos quan to na disposicao longitudinal da estrutura, e facil mobilidade cte vido ao fato do conjunto ser todo desmontavel. Ii ' •> •••••••• ! «i = • y..;=- !. RESITO ' patent of invention of "systems. EE OCBEKTURA AinXMENSIONAnAS "-made up of arches (2) tensioned, the shoe (3) and in having linked by cables (4). The elements are assembled on the ground and le 05 vantados with the help of a rod of lever (9). Support shoes of the arches (3) are made-by two rigid plates and a resilient to support pe pivoting support (19) of the arches (2) 1 tensioned which are formed by sections of pipe (11), that can be curved or straight, connected by plug-in elements (8), all-10 being what will permit variations both **modular** arches quan to the disposition of the longitudinal structure, and easy mobility etc came to set all desmontavel.

**International class (IPC 8-9):** E04F13/00 (Advanced/Invention); E04F13/00 (Core/Invention)**International class (IPC 1-7):** E04B5/57 E04F13/00**Family:**

Publication number	Pub. date	Application number	App. date
BRPI8503793 A	19870317	BR1985PI03793	19850812

Priority: BR1985PI03793 19850812;**Assignee(s):** (std): RICARDO MARCELLINO**Inventor(s):** (std): MARCELLINO RICARDO**Inventor(s):** RICARDO MARCELLINO

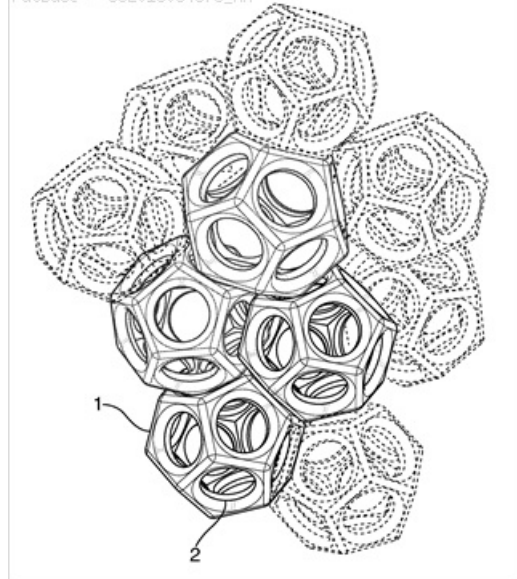
55) Family number: 58631253 (US2015064375A)

Title: MODULAR STRUCTURE AND METHOD FOR PREPARING SAME

Abstract:

Source: US2015064375A The invention is a structure comprising a tensioned skin filled with shaped modules for bearing compression. In an uncompressed state, the modules are pourable like sand, salt or sugar. When compressed by tensioning of the skin, the modules lock up so that the skin filled tightly with modules comprises a load-bearing structure.

PatBase - US2015064375_RR



International class (IPC 8-9): A47C7/00 A63B21/00 A63B23/16 B29C33/38 B29C61/02 B29C65/66 E04B1/35 F16S3/00 (Advanced/Invention); B32B37/14 E04B1/32 E04B2/22 E04B2/50 E04H15/20 E04H9/16 (Advanced/Non-invention)

CPC: A47C7/00 A63B21/00189 A63B23/16 B29C33/3821 B29C61/02 B29C65/66 B29K2995/0049 B32B37/144 E04B1/32 E04B1/35 E04B2/22 E04B2/50 E04B2001/327 E04H9/16 E04H15/20 Y10T29/49863 Y10T29/49865 Y10T29/49867 Y10T428/1328 Y10T428/1334 Y10T428/1345 Y10T428/1352 Y10T428/1372 Y10T428/1397 Y10T29/49616 Y10T428/13

US class: 29/897 428/34.1

Family:

Publication number	Pub. date	Application number	App. date
US2015064375 AA	20150305	US20130012069	20130828
US9498065 BB	20161122	US20130012069	20130828

Priority: US20130012069 20130828;

Cited documents: US6398992 BA, US5891000 A, US5558460 A,

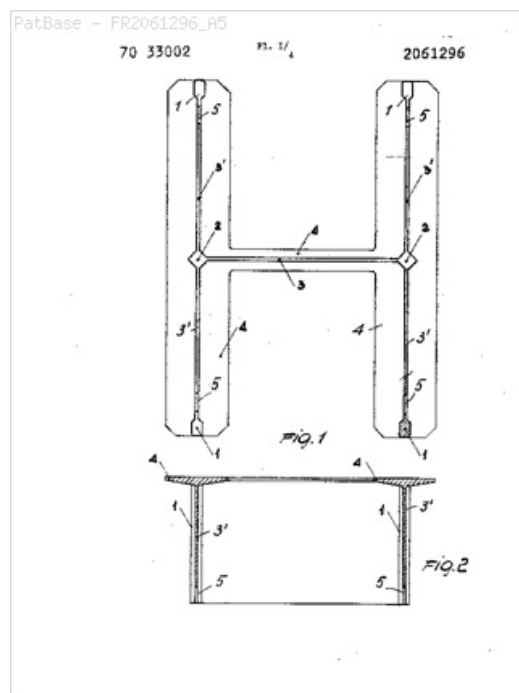
Assignee(s): (std): KUNSTADT ROBERT

Inventor(s): (std): KUNSTADT ROBERT

56) Family number: 19078693 (FR2061296A)**Title:** ESTRUCTURA MODULAR PARA ESTANTERIAS, HANGARES Y SIMILARES.**Abstract:**

Source: FR2061296A (Claim 1) REVENDICATIONS 10) Element prefabricé autoportant, en béton armé, apte à la fabrication de rayonnages et de hangars affectés au magasinage et analogues, caractérisé en ce qu'il présente, en plan, la forme d'un H, obtenu en une pièce unique ou par accouplement de plusieurs pièces, entre elles, et forme par des parois minces de hauteur préétablie, lesdites parois se terminant en haut par des ailes faisant saillie dans la direction perpendiculaire au plan desdites parois, et aptes à former support pour le rayonnage réalisé par lesdites pièces.

Machine translation: (Claim 1) CLAIMS 10) Prefabricated self-supporting, reinforced concrete, suitable for the manufacture of shelving and hangars affectes shopping and the like, characterized in that it presents, in plan, the form of H, obtained by a piece single or multiple mating pieces, each other and form by thin-walled high pre-set said walls ending up with wings protruding in the direction perpendicular to said walls and adapted to form support for the shelving realized by those pieces.



International class (IPC 8-9): A47B47/04 A47B55/04 B65G1/14 E04B1/348 (Advanced/Invention);

A47B47/00 A47B55/00 B65G1/14 E04B1/348 (Core/Invention)

International class (IPC 1-7): A47B87/00 E04B1/348 E04C2/48 E04H5/00 E04H5/02 E04H7/00 E04H7/28 F16S5/00

CPC: A47B55/04 E04B1/34823

European class: A47B55/04 E04B1/348C2

Family:

Publication number	Pub. date	Application number	App. date
CH526018 A	19720731	CH19700013502	19700910
DE2044765 A1	19720615	DE19702044765	19700910
DE2044765 B2	19780223	DE19702044765	19700910
DE2044765 C3	19780928	DE19702044765	19700910
ES161679 U	19701216	ES19700161679U	19700909
ES161679 Y	19710616	ES19700161679U	19700909
FR2061296 A5	19710618	FR19700033002	19700911
JP50007855 B4	19750329	JP19700079374	19700911
YU225170 A	19741031	YU19700002251	19700910
YU32667 B	19750430	YU19700002251	19700910

Priority: IT19690021920 19690911;

Assignee(s): (std): CICCOTELLI ; CICCOTELLI L ; CICCOTELLI LUCIANO ; FERRARI ; FERRARI R ; FERRARI RENZO DR ; FERRARI RENZO ; FERRARI Y CICCOTELLI RENZO Y L

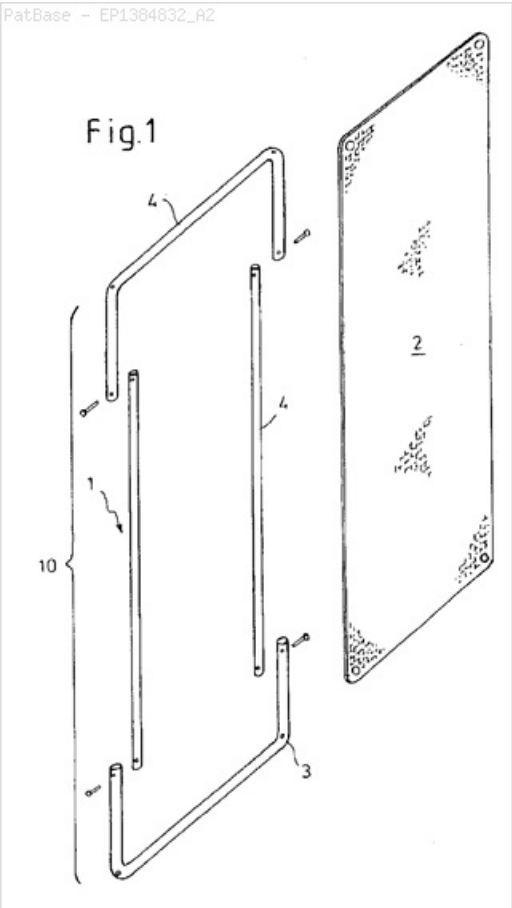
Assignee(s): FERRARI RENZO DR MAILAND

Inventor(s): (std): CICCOTELLI LUCIANO ; FERRARI RENZO DR ; LUCIANO CICCOTELLI ; RENZO FERRARI

Inventor(s): FERRARI RENZO DR MAILAND ; FERRARI RENZO

57) Family number: 30219668 (EP1384832A2)
Title: Privacy device Sichtschutzeinrichtung Dispositif de paravent

Abstract:
Source: EP1384832A2 The basic module (1) is assembled of two u-shaped pipes and two straight pipes (4) of a smaller diameter which are inserted with their ends into the ends of the u-shaped pipes and fixed with screws in order to form a rectangular frame (3, 10) for a cover (2) made of a suitable material. Two triangular stands (14) with insertion slots (20) located at their slightly elastic upper area can be clipped to the frame (3, 10). More modules (1) can be added and kept in place by specifically shaped clips (7) which are locked to one of the modules (1) and facilitate the rotation of the second module (1) around a vertical axis. A round bar carrying a parasol (15) can also be inserted into a clip (7) if required. Die Erfindung betrifft Sichtschutzeinrichtung, umfassend wenigstens zwei schwenkbeweglich miteinander verbundene Fluegel (1) als jeweils mit Sichtschutzbespannung (2) versehene Rahmen (3), von denen zwei sich etwa parallel zueinander erstreckende Rahmenschlenkel (10) benachbarter Fluegel (1) ueber jeweils mit dem betreffenden Rahmenschlenkel (10) ein Scharnier bildende Klammern miteinander verbunden sind, wobei die Klammern jeweils mit wenigstens einem Rahmenschlenkel (10) in wenigstens einer Winkelstellung eine formschluessige Arretierung bilden.



International class (IPC 8-9): A47G5/00 E04B2/74 (Advanced/Invention); F16B7/04 (Advanced/Non-invention)
International class (IPC 1-7): A47B97/00 A47G5/00 E04B2/74 F16B5/06
CPC: A47G5/00 E04B2/7431 E04B2002/7479 F16B7/0433
European class: A47G5/00 E04B2/74C3D3B P04B2/74G R16B7/04C
Family:

Publication number	Pub. date	Application number	App. date
AT431880 E	20090615	AT20030013918T	20030620
DE20211079 U1	20020926	DE20022011079U	20020722
DE50311530 D1	20090702	DE20035011530	20030620
DE50314748 D1	20130529	DE20035014748	20030620
EP1384832 A2	20040128	EP20030013918	20030620
EP1384832 A3	20041117	EP20030013918	20030620
EP1384832 B1	20090520	EP20030013918	20030620
EP2014844 A1	20090114	EP20080018439	20030620
EP2014844 B1	20130403	EP20080018439	20030620
EP2014844 B9	20130703	EP20080018439	20030620
ES2327400 T3	20091029	ES20030013918T	20030620

Priority: DE20022011079U 20020722; EP20030013918 20030620; EP20080018439 20030620;

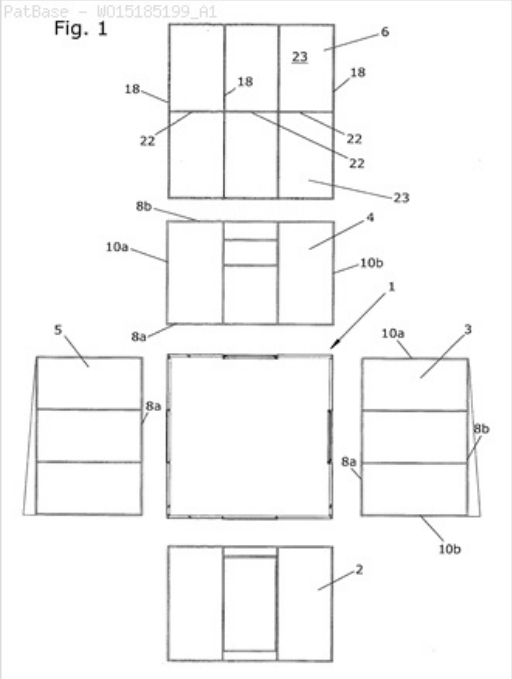
Cited documents: US6206079 BA, US5722477 A, US4774792 A, US4715072 A, US4134439 A,
Assignee(s): (std): MUELLER PEDDINGHAUS REINER ; MUELLER PEDDINGHAUS REINER PRO ; MUELLER PEDDINGHAUS REINER PROF DR ; MUELLER PEDDINGHAUS REINER PROF
Assignee(s): MUELLER PEDDINGHAUS REINER PROF DR
Inventor(s): (std): MUELLER PEDDINGHAUS REINER PRO ; MUELLER PEDDINGHAUS REINER PROF ; MUELLER PEDDINGHAUS REINER PROF DR ; MUELLER PEDDINGHAUS REINER
Inventor(s): MUELLER PEDDINGHAUS REINER PROF DR
Designated states: BE AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

58) Family number: 59688472 (WO15185199A1)

Title: SYSTEM FOR ERECTING HOUSE-LIKE ACCOMMODATION CONSISTING OF A LATH FRAMEWORK WITH CARDBOARD PANELS AS CLADDING
SYSTEME DE CONSTRUCTION DE LOGEMENTS DU TYPE MAISON A PARTIR D'UNE CONSTRUCTION DE LATTES, DES PLAQUES DE CARTON
FAISANT OFFICE DE REVETEMENT SYSTEM ZUR ERRICHTUNG HAUSARTIGER UNTERKUEFNTE AUS EINEM LATTENGERUEST MIT KARTONPLATTEN
ALS VERKLEIDUNG

Abstract:

Source: WO15185199A1 System for erecting house-like accommodation, in particular emergency accommodation, consisting of walls with roofing, which can be mounted in a quick manner of construction, characterized in that walls and roofing are each formed from wall and roof elements (12-15, 26) consisting of lath frameworks (2-5, 6) which are each subdivided into areas (11, 23) which are clad with cardboard panels (16), and in that the wall and roof elements and cardboard panels are preferably tailored to a uniform grid dimension with a length (l1) and height (h), wherein the wall and roof elements (12-15, 26) are constructed in particular in a modular manner as wall and roof modules in such a way that the length (l2) thereof is substantially a multiple of, in particular three times, the basic grid dimension of the cardboard panels with the length (l1). L'invention concerne un systeme de construction de logements du type maison, en particulier d'abris de secours, a partir de murs a toiture, lesquels peuvent etre montes par construction rapide. Ledit systeme est caracterise en ce que les murs et la toiture sont formes respectivement d'elements de mur et de toit (12-15, 26) faits de constructions de lattes (2-5, 6), qui sont divisees chacune en champs (11, 23) revetus de plaques de carton (16), et en ce que les elements de mur et de toit et les plaques de carton sont adaptes a une dimension modulaire standard presentant une longueur (l1) et une hauteur (h), les elements de mur et de toit (12-15, 26) etant concus en particulier de facon modulaire sous la forme de modules de mur et de toit, de telle maniere que leur longueur (l2) atteint sensiblement un multiple, en particulier le triple, de la dimension modulaire de base des plaques de carton presentant la longueur (l1). System zur Errichtung hausartiger Unterkuenfte, insbesondere Notunterkuenfte, aus Waenden mit ueberdachung, welche in Schnellbauweise montierbar sind, dadurch gekennzeichnet, dass Waende und ueberdachung jeweils aus Wand- und Dachelementen (12-15, 26) aus Lattengeruesten (2-5, 6) gebildet sind, die jeweils in Felder (11, 23) unterteilt sind, die mit Kartonplatten (16) verkleidet sind, und dass vorzugsweise die Wand- und Dachelemente und Kartonplatten auf ein einheitliches Rastermass mit einer Laenge (l1) und Hoehe (h) abgestimmt sind, wobei die Wand- und Dachelemente (12-15, 26) insbesondere modularartig als Wand- und Dachmodule aufgebaut sind, derart, dass deren Laenge (l2) im Wesentlichen ein Mehrfaches, insbesondere Dreifaches, des Grundrastermasses der Kartonplatten mit der Laenge (l1) betraegt.



International class (IPC 8-9): E04B1/343 E04H1/12 (Advanced/Invention)

CPC: E04H1/1205 E04B1/486

Family:

Publication number	Pub. date	Application number	App. date
DE202014004684 U1	20150716	DE201420004684U	20140606
WO15185199 A1	20151210	WO2015EP01098	20150529

Priority: DE201420004684U 20140606;

Cited documents: WO04076762 A1, US390589 A,

DE202011000359 U1

DE202010016686 U1

DE2011000359 U, DE2007006822, DE2004010778,

DE102007006822 A1

DE102004010778 A1

CH691982 A3, CH691982,

Assignee(s): (std): KONNERTH ALFRED

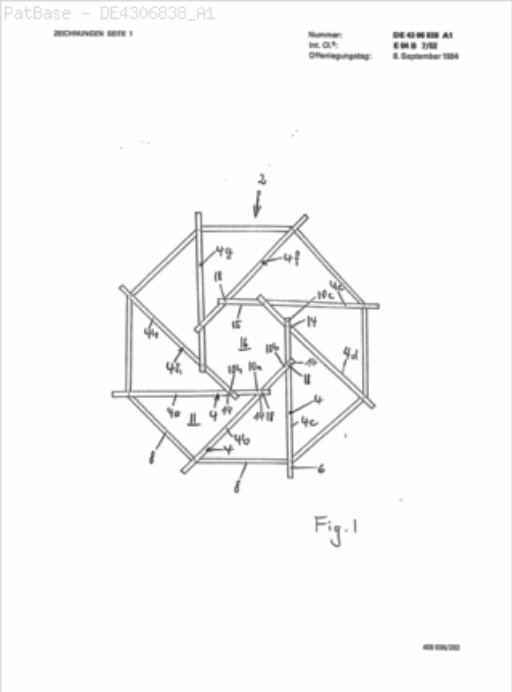
Assignee(s): KONNERTH

Inventor(s): (std): KONNERTH ALFRED

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 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

59) Family number: 11205653 (DE4306838A1)
Title: Roof Dach

Abstract:
Source: DE4306838A1 A roof exhibits at least three elongate load-bearing elements which are inclined upwardly and inwardly from an outer roof border and bear a sheet-like roof **covering**. The load-bearing elements are supported, at their respectively outer end, on supporting elements. Of a number of n load-bearing elements, in each case a first load-bearing element bears, by its inner end, on a second load-bearing element adjacent to it, the second load-bearing element bears, by its inner end, on a load-bearing element adjacent to it, etc., and an nth load-bearing element adjacent to the first load-bearing element bears, by its inner end, on the first load-bearing element. The space enclosed by the supporting elements is spanned in a self-supporting manner by the load-bearing elements. All the forces acting on the roof are channelled away via the supporting elements. The roof exhibits at least one vertical support for underpinning a load-bearing element. The number of vertical supports corresponds, in particular in the case of large effective spans, to the number of load-bearing elements. The vertical supports are each arranged beneath a bearing means. The number n of the load-bearing elements corresponds to the number of corners or sides of a polygonal base surface area.



International class (IPC 8-9): E04B7/02 (Advanced/Invention);
E04B7/02 (Core/Invention)
International class (IPC 1-7): E04B7/02
CPC: E04B7/028
European class: E04B7/02D
Family:

Publication number	Pub. date	Application number	App. date
DE4306838 A1	19940908	DE19934306838	19930305

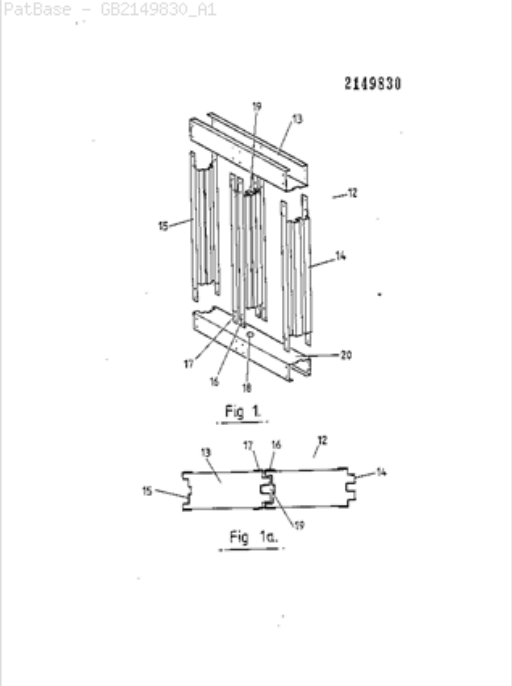
Priority: DE19934306838 19930305;

Assignee(s): (std): FEDER URSULA
Assignee(s): FEDER URSULA 2050 HAMBURG DE

60) Family number: 600792 (GB2149830A)
Title: WALL MODULES

Abstract:

Source: GB2149830A The steel module comprises top and bottom channels (13, 20) spaced and joined by studs (14, 15) profiled to co-operate with the stud of an adjacent module, either in-line (Fig. 1a) or at a corner (Fig. 2a-not shown) to define an aperture (19 or 9, Fig. 2a) for receiving a through bolt to fasten the module to a foundation or frame member.



International class (IPC 8-9): E04B2/56 E04B2/62 E04B2/72 E04B2/74 E04C3/32 (Advanced/Invention); E04B2/56 E04B2/58 E04B2/72 E04B2/74 E04C3/30 (Core/Invention)

International class (IPC 1-7): E04B1/00 E04B1/40 E04B1/54 E04B2/00 E04B2/56 E04B2/62

CPC: E04B2/62 E04B2/72

European class: E04B2/62 E04B2/72

Family:

Publication number	Pub. date	Application number	App. date
AU198425840 A1	19850523	AU19840025840	19840316
AU553334 B2	19860710	AU19840025840	19840316
BRPI8402629 A	19850618	BR1984PI02629	19840531
DE3413482 A1	19850523	DE19843413482	19840410
FR2554846 A1	19850517	FR19840004924	19840329
GB2149830 A1	19850619	GB19840011191	19840502
GB2149830 B2	19860924	GB19840011191	19840502
GB8411191 A0	19840606	GB19840011191	19840502
IN161397 A	19871128	IN1984CA00203	19840327
IT8467341 A0	19840406	IT19840067341	19840406
JP60109449 A2	19850614	JP19840197015	19840921
KR850003754 A	19850626	KR19840002225	19840423
ZA8403460 A	19850626	ZA19840003460	19840508

Priority: AU19830002393 19831115; AU19830025840 19831115; AU19840025840 19840316; AU1983PG02393 19831115; AU19840025840 19831115;

Cited documents: US4235054 A, US4192113 A, US3623287 A, US2269384 A, GB579443 A, GB2058168 A1, DE2656540 A1, DE1409992 B, AT261162 B,

Assignee(s): (std): BEIJIRU CHIYAARUZU TEIRAA ; TAYLOR B C ; TAYLOR BASIL ; TAYLOR BASIL CHARLES

Assignee(s): TAYLOR BC ; BASIL CHARLES TAYLOR

Inventor(s): (std): BASIL CHARLES TAYLOR ; BEIJIRU CHIYAARUZU TEIRAA ; TAYLOR BASIL CHARLES

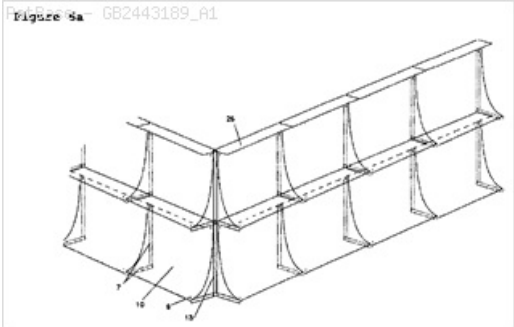
Inventor(s): CHARLES TAYLOR BASIL

61) Family number: 34071346 (GB200621419A)

Title: One-way partition

Abstract:

Source: GB200621419A A partition means is adapted to be substantially more transparent when viewed from one side (herein called "the transparent side") and substantially less transparent (i.e. substantially more opaque) when viewed from the opposite side (herein called "the opaque side"). The means comprises at least one partially reflecting, partially transparent material **10** slanting from an edge nearer the viewer to its opposite edge further from the viewer, and a surface adapted to be bright **25** and extending from the vicinity of said further edge towards the viewer, whereby when said surface is bright at least part of the viewer's view through the material from the opaque side will be impeded by the partial reflection of the bright surface, the partition means comprising means to make the partition means more user-friendly. Said means to make the partition more user-friendly is preferably the use of two oppositely slanting screens.



International class (IPC 8-9): E04B2/74 (Advanced/Invention)

CPC: E04B2/7424 E04B2/7435

European class: E04B2/74C3D1 E04B2/74C3E1

Family:

Publication number	Pub. date	Application number	App. date
GB200621419 A0	20061206	GB20060021419	20061027
GB2443189 A1	20080430	GB20060021419	20061027

Priority: GB20060021419 20061027;

Cited documents: US4498455 A, US4035539 A, GB429340 A, DE2640231 B1,

Assignee(s): (std): KALMUS JONATHAN A ; KALMUS JONATHAN ADAM

Assignee(s): JONATHAN ADAM KALMUS

Inventor(s): (std): KALMUS JONATHAN ADAM

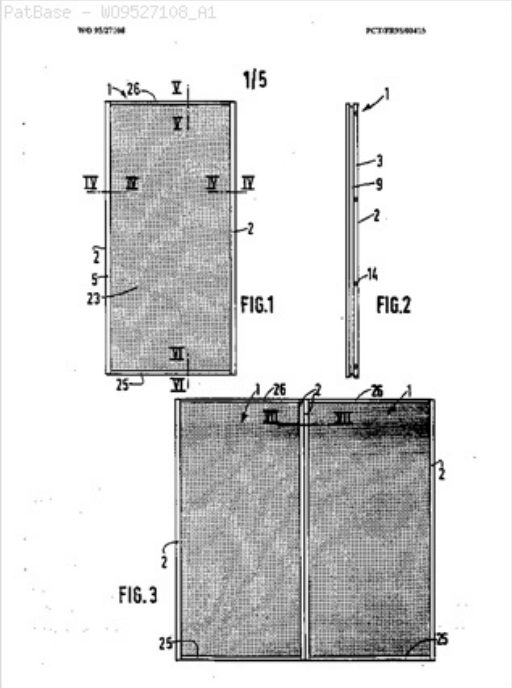
Inventor(s): JONATHAN ADAM KALMUS

62) Family number: 10870060 (WO9527108A1)

Title: SANDWICH BEARING WALL PANEL, SECTION THEREFOR, AND BUILDING PROVIDED WITH SUCH PANELS PANNEAU MUR PORTEUR SANDWICH, PROFILE POUR UN TEL PANNEAU, CONSTRUCTION COMPORTANT DE TELS PANNEAUX

Abstract:

Source: WO9527108A1 Sandwich bearing wall panel for constructing a building, of the type comprising: a pair of structural parallel posts (2) facing each other, and to each of which is attached an inner lining (9) including an outer frame (18) with two pairs of side and upper and lower crossbeams respectively, a pair of inner (22) and outer (23) facing panels overlying the frame (18) on each side thereof, and insulating means (24) intermediate the frame (18) and the pair of facing panels (22, 23). The wall panel of the invention further includes at least one plastic section, providing a lower rail (25) or an upper cap (26), respectively, said section being generally shaped as a right or inverted U or pseudo U, wherein the web (27) of the section is mounted on the lower (21) or upper (20) crossbeam respectively by means of attachment members (30), and the two inner (28) and outer (29) flanges of said section sandwich the inner (22) and outer (23) facing panels respectively. Said section is arranged to be placed intermediate the frame (18) and the facing panels (22, 23), on one side, and the foundations, substructure, support brickwork, or a floor, truss or ceiling on the other side. L'invention concerne un panneau mur porteur sandwich destine a la realisation de construction du type comprenant: un couple de poteaux (2) de structure, paralleles entre eux et places en regard l'un de l'autre et, fixe respectivement aux poteaux; un remplissage interne (9) comportant: un cadre (18) exterieur ayant deux couples de traverses respectivement laterales et hautes et basses, un couple de bardages (22, 23) respectivement interieur (22) et exterieur (23) venant recouvrir le cadre (18), de part et d'autre, des moyens d'isolation (24) interposes entre le cadre (18) et le couple de bardages (22, 23). Selon l'invention, le panneau comprend, en outre, au moins un profile en matiere plastique, formant lisse basse (25) ou coiffe haute (26), respectivement ce profile ayant une forme generale de U ou de pseudo U droit ou renverse respectivement, dont l'ame (27) est fixee sur la traverse basse (21) ou haute (20) respectivement par des moyens de fixation (30) et dont les deux ailes interieure (28) et exterieure (29) viennent respectivement emprisonner les deux bardages interieur (22) et exterieur (23), le profile etant destine a etre interpose entre le cadre (18) et les bardages (22, 23) d'une part et les fondations ou le soubassement ou la maconnerie support ou un plancher, ou une ferme ou un plafond d'autre part.



International class (IPC 8-9): E04B2/70 E04B2/82 (Advanced/Invention)

International class (IPC 1-7): E04B1/74 E04B2/82 E04B2/92

CPC: E04B2/707

European class: E04B2/70C1

Family:

Publication number	Pub. date	Application number	App. date
CA2163987 AA	19951128	CA19952163987	19950331
DE69509718 D1	19990624	DE19956009718	19950331
EP0701646 A1	19960320	EP19950916692	19950331
EP0701646 B1	19990519	EP19950916692	19950331
ES2134469 T3	19991001	ES19950916692T	19950331
FR2718172 A1	19951006	FR19940003896	19940401
FR2718172 B1	19960503	FR19940003896	19940401
WO9527108 A1	19951012	WO1995FR00415	19950331

Priority: FR19940003896 19940401; WO1995FR00415 19950331;

Cited documents: US4621470 A, US3852926 A, FR2552143 A1, DE2120445 A1,

Assignee(s): (std) DASSE CONST ; BILHERE DIEUZEIDE FRANCOISE ; CONST DASSE

Assignee(s): CONSTRUCTIONS DASSE LES ; DASSE CONSTRUCTIONS ; LES CONSTRUCTIONS DASSE ; LES CONSTRUCTIONS DASSE DAX FR

Inventor(s): (std) BILHERE DIEUZEIDE FRANCOISE ; FRANCOISE MILHERE DIEUZEIDE ; MILHERE DIEUZEIDE FRANCOISE

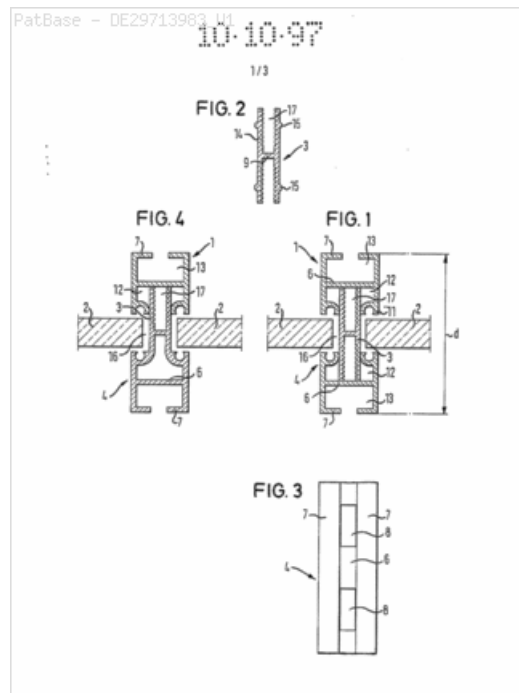
Inventor(s): BILHERE DIEUZEIDE FRANCOISE F 40990 SAINT PAUL LES ; BILHERE DIEUZEIDE FRANCOISE F 40990 SAINT PAUL...

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT LU MC NL PT RU SE US

63) Family number: 16940226 (DE29713983U1)**Title:** Framing and connecting profile for windowpanes Rahmen- und Verbindungsprofil fuer Glasscheiben**Abstract:**

Source: DE29713983U1 (Claim 1) 1. Rahmen- und Verbindungsprofil fuer Glasscheiben, insbesondere fuer den Systembau von Glasfenstern, mit einer Profilleiste (1; 10) und einer Gegenleiste (4; 5; 5') zur beidseitigen Abdeckung des Fugenbereichs zwischen zwei benachbarten Glasscheiben (2), dadurch gekennzeichnet, dass die Profilleiste (1; 10) auf zwei ihrer einander diametral gegenueberliegenden Seiten je eine durchgehende Laengsnut (12,13) aufweist und die beiden Laengsnuten (12, 13) durch eine gemeinsame, parallel zur Glasscheibenebene verlaufende Zwischenwand (6) voneinander getrennt sind und dass die Gegenleiste (4; 5; 5') mit der Profilleiste (1; 10) durch die Fuge (16) zwischen zwei benachbarten Glasscheiben (2) hindurch verbindbar ist.

Machine translation: (Claim 1) 1 Context and connection profile for glass panes, particularly for fenestration system construction of glass, with a profile strip (1, 10) and a counter bar (4, 5, 5') for two-sided coverage of the joint area between two adjacent glass plates (2), characterized, that the profile strip (1, 10) on two of its diametrically opposite sides a continuous longitudinal groove (12,13) has and the two longitudinal grooves (12, 13) through a joint, parallel to the glass disk plane running intermediate wall (6) separated and that the opposite border (4, 5, 5') with the profile strip (1, 10) by the joint (16) between two adjacent glass plates (2) is connected through.



International class (IPC 8-9): E06B3/54 E06B3/68 (Advanced/Invention); E06B3/00 E06B3/54 (Core/Invention)

International class (IPC 1-7): E04B1/61 E04B2/56 E04C2/54 E06B3/06

CPC: E06B3/5427 E06B3/68

European class: E06B3/54C E06B3/68

Family:

Publication number	Pub. date	Application number	App. date
DE29713983 U1	19971204	DE19972013983U	19970805

Priority: DE19972013983U 19970805;

Assignee(s): (std): STRAEHLE RAUM SYSTEME GMBH

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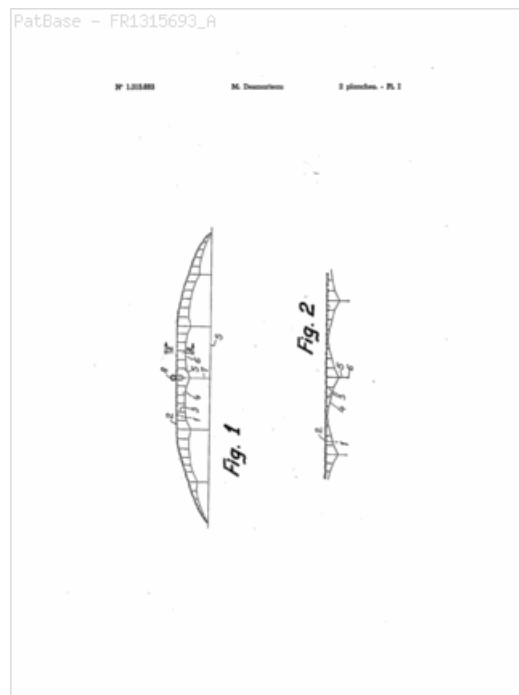
64) Family number: 23034001 (FR1315693A)

Title: EDIFICE PNEUMATIQUE EDIFICE TYRE (Machine translation)

Abstract:

Source: FR1315693A (Claim 1) 1. Un edifice pneumatique comportant une enveloppe flexible et pratiquement impermeable, un filet de retenue recouvrant ladite enveloppe, des cables de retenue attaches aux mailles dudit filet a leur extremite superieure et passant a travers ladite enveloppe, une premiere serie de cables souseuseurs relies a l'extremite inferieure desdits cables de retenue et chacun commun a une rangee desdits cables de retenue, des moyens pour ancrer au sol en des points espaces lesdits cables souseuseurs, et des moyens pour insuffler de l'air a l'interieur de ladite enveloppe et y maintenir une surpression relativement a la pression atmospherique.

Machine translation: (Claim 1) 1. A building envelope tire having a flexible and virtually waterproof, a cargo net **covering** said enclosure, cables retaining ties to the meshes of said net has its upper end and passing through said housing, a first series of cables connected at the end souseuseurs said lower holding cables and each row has a common retaining said cables, means for anchoring to the ground at spaced points souseuseurs said cables, and means for blowing air inside of said envelope and maintain a relatively pressure at atmospheric pressure.



International class (IPC 8-9): E04H15/22 (Advanced/Invention);

E04H15/20 (Core/Invention)

International class (IPC 1-7): E04B1/345

CPC: E04H15/22

European class: E04H15/22

Family:

Publication number	Pub. date	Application number	App. date
FR1315693 A	19630118	FR19620889017	19620223

Priority: FR19620889017 19620223;

Inventor(s): (std): DESMARTEAU PAUL