

Search history

Search 1: SFT=(roof and modular) (Results 21402)
Search 2: column* near support (Results 151238)
Search 3: 1 and 2 (Results 926)
Search 4: 3 and (two w2 (roof or structure)) (Results 180)
Search 5: SFT=(4) and IC=(E04B or E06B) (Results 92)
Search 6: 5 and PD<20170620 (Results 89)

Title: System of prefabricated components for constructing **modular** houses

Abstract: A **modular** house is composed of eight columns to be provided upright respectively at eight points, each two of which divide each side of an imaginary square on a piece of land into three equal parts, and panels to be attached to the columns. The **modular** house is of an extremely simple structure, requires a low cost for its manufacture, permits effective utilization of land and easy enlargement and/or remodeling, and provides a wide interior floor area.

Classifications:

International (IPC 8-9): E04B1/34 E04B1/343 E04H1/00

E04H1/02 (Advanced/Invention);

E04B1/34 E04B1/343 E04H1/00 E04H1/02 (Core/Invention)

International (IPC 1-7): E04B1/26 E04B1/34 E04B1/343 E04H1/00

E04H1/02

CPC: E04B2001/0092 E04H1/005

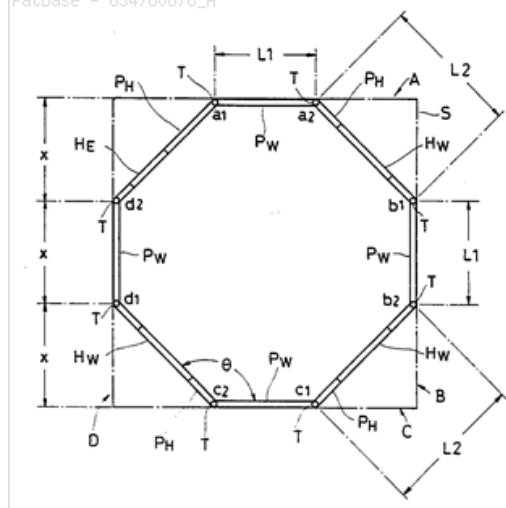
European: E04H1/00B P04B1/00S6H

US: 52/236.1 52/236.3 D25/1 D25/32

JP F-Term: 2E004 2E025 2E025/AA01 2E025/AA32 2E121 2E025/AA02

JP F-Index: E04B1/34/Z E04H1/02 E04B1/343/S

PatBase - US4760676_A



Family:

Publication number	Publication date	Application number	Application date
CA1259772 A1	19890926	CA19850482942	19850531
DE3905638 A1	19900830	DE19893905638	19890223
FR2643403 A1	19900824	FR19890002300	19890222
GB2228501 A1	19900829	GB19890004202	19890223
GB8904202 A0	19890405	GB19890004202	19890223
JP1717277 C3	19921214	JP19840114498	19840606
JP1928636 C3	19950512	JP19910210343	19910729
JP4001822 B4	19920114	JP19840114498	19840606
JP5001474 A2	19930108	JP19910210343	19910729
JP60261844 A2	19851225	JP19840114498	19840606
JP6056035 B4	19940727	JP19910210343	19910729
US4760676 A	19880802	US19860880943	19860625

Priority:

JP19840114498 19840606 CA19850482942 19850531 US19850740750 19850603
 FR19890002300 19890222 DE19893905638 19890223 GB19890004202 19890223
 JP19910210343 19910729

Probable Assignee: MINAMIFUJI SANGYO KK

Assignee(s): (std): MINAMIFUJI SANGYO KABUSHIKI KA ; MINAMIFUJI SANGYO KK

Assignee(s): MINAMIFUJI SANGYO KABUSHIKI KAISHA ; GOTO MIEKO ; MINAMIFUJI SANGYO K K ; MINAMIFUJI SANGYO K K SUSONO SHIZUOKA JP

Inventor(s): (std): GOTO MIEKO ; GOTOU MIEKO ; GOTO MIKEO

Inventor(s): GOTO MIEKO SHIZUOKA JP ; MIEKO GOTO ; MIKEO GOTO

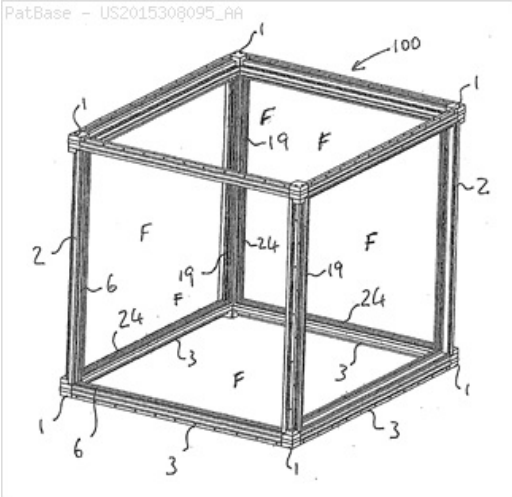
Agent(s): KIRBY EADES GALE BAKER

Title: CONSTRUCTION SYSTEM

Abstract: A construction system comprising an elongate column member, an elongate beam member and at least one connector member. Each of the elongate members comprising an interior engaging portion 3B. The connector member includes a protruding keying portion 12 and mating formation 13. When the elongate column member and elongate beam members are engaged with the connector member in use, the interior engaging portion slidably receives the mating formation therein. The elongate members have a keying portion on an outside of their body to allow connection to a wall frame.

Classifications:

International (IPC 8-9): E04B1/18 E04B1/19 E04B1/343 E04B1/38 E04H12/18 (Advanced/Invention); E04B1/58 (Advanced/Non-invention)
CPC: E04B1/34326 E04B1/34315 E04B1/5825 E04H12/18
US: 52/633 52/653.2 52/698



Family:

Publication number	Publication date	Application number	Application date
AU2015201461 AA	20151008	AU20150201461	20150320
AU2015201461 BB	20170817	AU20150201461	20150320
US2015308095 AA	20151029	US20150663542	20150320
US9598852 BB	20170321	US20150663542	20150320

Priority:

AU20140900990 20140321 AU20150201461 20150320 US20150663542 20150320

Probable Assignee: NEAL MURPHY O

Assignee(s): (std): NEAL MURPHY O ; O NEAL MURPHY ; O NEAL MURPHY REYNOLDS

Assignee(s): O NEAL MURPHY REYNOLDS MR

Inventor(s): (std): O NEAL MURPHY REYNOLDS

Agent(s): PIPERS; GARCIA ZAMOR IP LAW; RUY M

Title: MODULAR STRUCTURE FOR A PREFABRICATED BUILDING

Abstract: A modular structure for a prefabricated building includes prefabricated modules connected by dowel type fasteners. The fasteners include a dowel element with a diverging frustum of cone sectors which form heads at each end of the dowel and set screw fasteners which have a frustum of the cone front end which bears on the frustum portion of the dowel. The dowel fits in opposing holes in the panel edges and the set screws are inserted in blind holes which lead into the dowel receiving holes.

Classifications:

International (IPC 8-9): E04B1/00 E04B1/04 E04B1/343 E04H1/02 (Advanced/Invention);

E04B1/00 E04B1/02 E04B1/343 E04H1/02 (Core/Invention)

International (IPC 1-7): E04B1/00 E04B1/04 E04B1/343 E04C3/10 E04G11/02 E04H1/00 E04H1/02

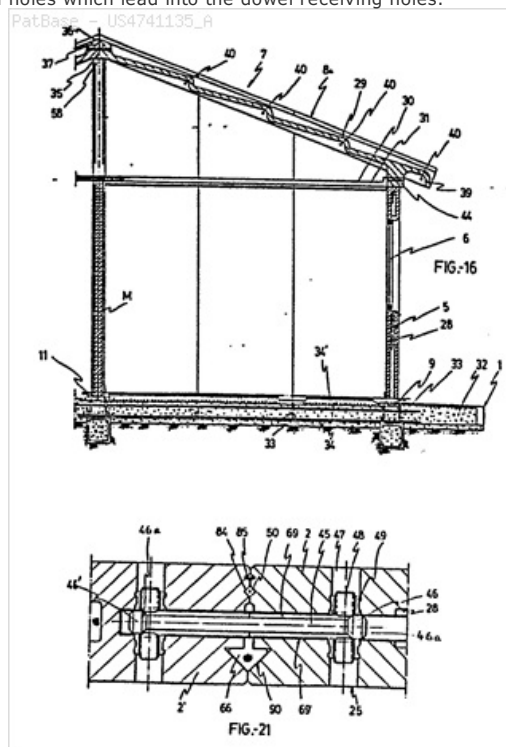
CPC: Y10T403/55 Y10T403/7041 E04B1/043 E04B1/0007 E04B1/04

European: E04B1/00B E04B1/04 E04B1/04B

US: 403/292 403/362 403/407.1 52/223.7 52/227 52/585 52/585.1

JP F-Term: 2E004 2E121

JP F-Index: E04B1/343/A



Family:

Publication number	Publication date	Application number	Application date
BE904882 A	19861001	BE19860216751	19860605
BRPI8602602 A	19870203	BR1986PI02602	19860604
CN86103853 A	19870204	CN19861003853	19860605
EP0204580 A1	19861210	EP19860304316	19860605
ES543952 A0	19870416	ES19850543952	19850605
ES555227 A0	19871101	ES19860555227	19860522
ES555227 A2	19871101	ES19860555227	19860522
ES555227 A3	19871101	ES19860555227	19860522
ES8705073 A1	19870416	ES19850543952	19850605
ES8800392 A2	19871101	ES19860555227	19860522
GR861436 B	19861002	GR19860101436	19860603
IT1204379 A	19890301	IT19860020674	19860604
IT8620674 A0	19860604	IT19860020674	19860604
JP62037437 A2	19870218	JP19860131652	19860605
NO862229 A	19861208	NO19860002229	19860604
NO862229 A0	19860604	NO19860002229	19860604
NO862229 L	19861208	NO19860002229	19860604
PT82709 A	19860701	PT19860082709	19860604
PT82709 B	19890303	PT19860082709	19860604
US4741135 A	19880503	US19860868638	19860529

Priority:

ES19850543952 19850605 ES19860555227 19860522

Probable Assignee: MARTINEZ BAENA JUAN ANTON

Assignee(s): (std): MARTINEZ BAENA J ANTONIO ; MARTINEZ BAENA JAUN ANTONIO ; MARTINEZ BAENA JUAN ANTONIO ; MARTINEZ BAENA JUAN A ; MARTINEZ BAENA JUAN ANTON ; BAENA JUAN A M ; BAENA JUAN ANTONIO MARTINEZ

Assignee(s): JUAN ANTONIO MARTINEZ BAENA

Inventor(s): (std): BAENA JUAN A M ; BAENA JUAN ANTONIO MARTINEZ ; MARTINEZ BAENA JUAN A ; MARTINEZ BAENA JUAN ANTONIO

Inventor(s): JUAN ANTONIO MARTINEZ BAENA

Designated states: AT DE FR GB NL SE

Title: **ROOF**, IN PARTICULAR GAS STATION **ROOF**

Abstract: The invention relates to a **roof**, in particular a gas station **roof**, comprising **two** or more supports that support a **roof** construction. The **roof** construction has longitudinal beams and transverse beams that are mutually spaced in a parallel manner both in the **roof** longitudinal direction as well as in the **roof** transverse direction. The aim of the invention is to allow the individual adaptation of such a **roof** to different property conditions with little cost in a simple manner. This is achieved in that the longitudinal beams and the transverse beams are connected to each other at intersection nodes at a grid distance in order to form a grid and in that at least some of the longitudinal beams and/or the transverse beams are composed of sub-beams at least in some regions, said sub-beams being removably coupled in the region of the intersection nodes.

Classifications:

International (IPC 8-9): E04B1/24 E04B1/34 E04B1/342 E04B1/348

E04B1/38 E04B7/00 E04C3/06 E04C3/32 E04H1/12 E04H6/02

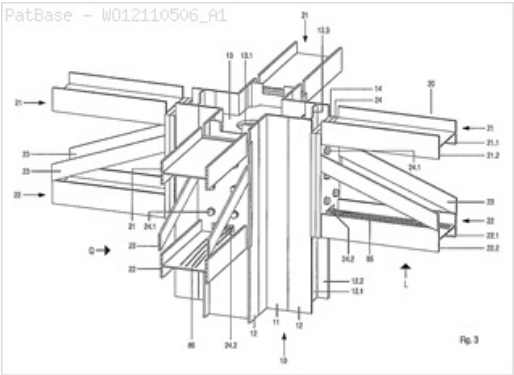
F24J2/04 (Advanced/Invention)

CPC: E04B1/24 E04B2001/2406 E04B2001/2415 E04B2001/2454

E04B2001/2466 E04B2001/2472 E04H1/1233

European: E04B1/24 E04B1/24B E04B1/342 E04B1/34D P04B1/19C3

P04B1/24B2 P04B1/24B4 P04B1/24B42 P04B1/24C P04B1/24C3



Family:

Publication number	Publication date	Application number	Application date
DE102011000707 A1	20120816	DE201110000707	20110214
WO12110506 A1	20120823	WO2012EP52503	20120214

Priority:

DE201110000707 20110214

Probable Assignee: BOETTLE

Assignee(s): (std): BOETTLE STEFAN ; LUICK ROLAND

Assignee(s): BOETTLE ; LUICK

Inventor(s): (std): BOETTLE STEFAN ; LUICK ROLAND

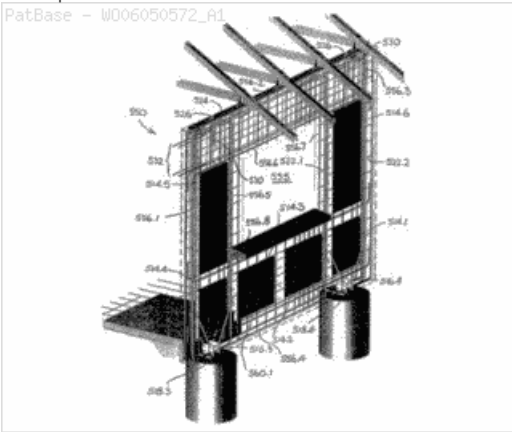
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Title: MODULAR BUILDING CONSTRUCTION APPARATUS AND METHODS

Abstract: A building panel (550) for modular construction purposes including at least one core section (514) composed of lightweight filler material; a reinforcement structure (554) including a mesh sub-structure (552), which reinforcement structure supports said at least one core section; a body composed of castable material substantially enveloping both said at least one core section (514) and the supporting reinforcement structure (554), which body includes opposed wall portions wherein the mesh sub-structure reinforces at least one of said opposed wall portions; and a footing assembly (516) coupled to the reinforcement structure and protruding from one end of the body for securing the building panel (550) in a desired position. Methods of forming the building panel for modular construction and assembling the panels are also provided.

Classifications:

International (IPC 8-9): E04B1/343 E04B7/04 E04C2/06 E04C2/288 (Advanced/Invention); E04B1/343 E04B7/04 E04C2/06 E04C2/26 (Core/Invention)
CPC: B28B7/02 B28B7/186 B28B23/0025 B28B23/0068 B28B23/02 E04B1/04 E04B7/026 E04B7/045 E04C2/06 E04C2/2885 E04G21/142
European: B28B23/00V B28B23/02 B28B7/02 B28B7/18C E04B1/04 E04B7/02C E04B7/04C E04C2/06 E04C2/288B E04G21/14B



Family:

Publication number	Publication date	Application number	Application date
WO06050572 A1	20060518	WO2005AU01725	20051111

Priority:

AU20040906461 20041111 AU20050904008 20050727 AU20050904277 20050809

Probable Assignee: CEC GROUP LTD

Assignee(s): (std): BEHNE PETER RICHARD ; CEC GROUP LTD ; FLETCHER GARY JOHN ; LAVIS ROY ; OWENS MERVYN JOSEPH

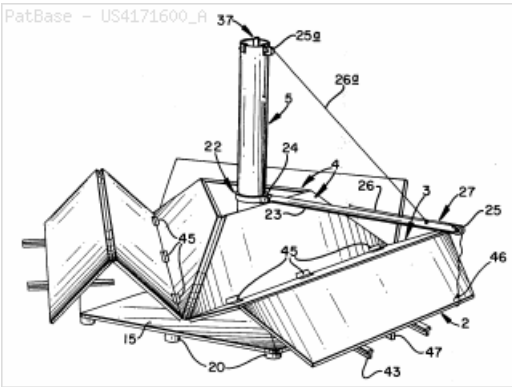
Inventor(s): (std): BEHNE PETER RICHARD ; FLETCHER GARY JOHN ; LAVIS ROY ; OWENS MERVYN JOSEPH

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

Title: Process for constructing modular building and resulting product

Abstract: This economical construction process utilizes preconstructed and modular techniques to erect single and multiple commercial, industrial and residential units what may be required to be built in urban or remote areas with a minimum of erection labor. The resulting product includes a pyramid-like section suspended from a centrally located chimney that also serves as a structural element both during construction and thereafter. Another embodiment uses a structural truss in lieu of the chimney for final support purposes.

Classifications:
International (IPC 8-9): E04B1/34 E04B1/35 (Advanced/Invention); E04B1/34 E04B1/35 (Core/Invention)
International (IPC 1-7): E04B1/34 E04B1/343 E04B1/35 E04D1/34
CPC: E04B1/3412 E04B1/3544 E04B2001/0092
European: E04B1/34C1 E04B1/35F P04B1/00S6H
US: 52/200 52/219 52/236.1 52/745 52/745.04 52/745.14 52/79.4 D25/22 D25/23 D25/32



Family:

Publication number	Publication date	Application number	Application date
US4171600 A	19791023	US19770800531	19770525

Priority:

US19770800531 19770525

Probable Assignee:	WHITNEY CLIFFORD C JR
Assignee(s): (std):	WHITNEY CLIFFORD C JR
Inventor(s): (std):	WHITNEY CLIFFORD C JR

Title: APPARATUS AND METHOD FOR SECURING A **ROOF** ASSEMBLY DURING A SEVERE WIND STORM

Abstract: A strapping system includes a **roof** assembly including a plurality of receiving channels; each of the plurality of receiving channels is fastened to interconnected **roof** materials connected to a **roof** structure. The **roof** assembly also includes a plurality of **roof** channels that are connected by the plurality of receiving channels and fastened to the interconnected **roof** materials, such that a row of interconnected **roof** channels and receiving channels is placed over the interconnected **roof** materials along a length of a **roof** structure. The strapping assembly also includes a plurality of straps for tying down the **roof** assembly to a corresponding plurality of anchors, each of the plurality of anchors being secured at predetermined distances at opposite sides of a foundation of a building. The strapping assembly further includes a plurality of tensioning devices mounted, at predetermined distances, on the **roof** materials between rows of interconnected **roof** channels and receiving channels, the plurality of tensioning devices being for eliminating vertical displacement of the fastened straps. Each of the plurality of straps is placed at a predetermined distance along the length of the **roof** structure over rows of interconnected **roof** channels and receiving channels and is threaded in a corresponding tensioning device that is lined up with a corresponding anchor at the foundation of the building. On opposite sides of the building, each of the plurality of straps is fastened to a corresponding ratchet assembly attached to a corresponding anchor of the plurality of anchors, thereby transferring load from the **roof** assembly to the foundation of the structure during a high wind storm such as a, hurricane, typhoon, cyclone or a tornado.

Classifications:

International (IPC 8-9): E04B7/00 E04D1/34

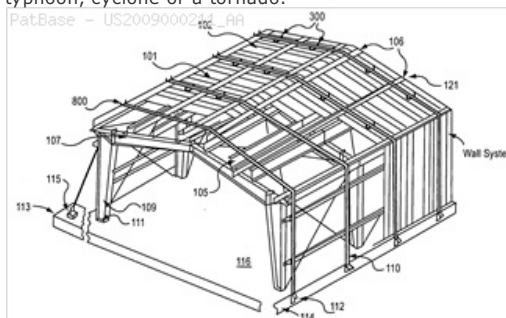
E04H9/14 (Advanced/Invention);

E04B7/00 E04D1/34 E04H9/14 (Core/Invention)

CPC: E04H9/14 Y10S52/11 Y10S52/12 Y02A50/14

European: E04H9/14

US: 52/23 52/4 52/698 52/741.3 52/DIG.11 52/DIG.12



Family:

Publication number	Publication date	Application number	Application date
US2009000211 AA	20090101	US20080153047	20080513
US7805891 BB	20101005	US20080153047	20080513

Priority:

US20070924547P 20070518 US20080153047 20080513

Probable Assignee: HURRICANE HARNESS CORP

Assignee(s): (std): HURRICANE HARNESS CORP

Inventor(s): (std): LOZIER JAMES ; LOZIER MAURICE ; LOZIER RITA

Agent(s): SQUIRE SANDERS AND DEMPSEY LLP

Title: Precast building structure

Abstract: There is disclosed a novel precast building structure system for a polygonal building, preferably a twelve-sided building structure. In particular, the precast structures are constituted by four basic units namely, a system of central core elements, a floor panel system constituted by essentially identical precast concrete floor elements, a plurality of like numbered wall elements which may have openings of various kinds for doors, windows, etc., and a plurality of **roof** panel elements corresponding in number to the number of wall panels and floor panels but staggered in relation to the wall panels and juxtaposed over the floor panels. The wall panels rest on the piers and are secured via weld plates and at spaced points to the ends of the floor panels. The floor panels and the **roof** panels incorporate a unique T-beam construction which in conjunction with the integrally cast complementary pairs of triangularly shaped floor and/or **roof** panel portions, is reinforced with steel. The **roof** panels include a beam portion and an integrally cast pair of angled flange portions, the angle being proportional to the pitch of the **roof** and the number of sides (which determine the included angle between adjacent wall panels) of the building. The individual floor panels, **roof** panels, and wall panels have incorporated conventional inset securement or fastening members such as concrete anchored weld plates so that the entire structure, constituted by the stacked core elements, piers or pillars, the floor panels, the wall panels and **roof** panels, is welded into an integral monolithic unit.

Classifications:

International (IPC 8-9): E04B1/04 E04B1/34 (Advanced/Invention);
E04B1/02 E04B1/34 (Core/Invention)

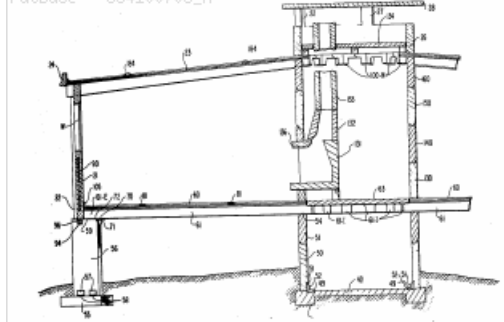
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CPC: E04B1/04 E04B1/3412 E04B2001/0092

European: E04B1/04 E04B1/34C1 P04B1/00S6H

US: 52/236.1 52/602 52/741 52/745.1 52/745.13 52/82

PatBase - US4100705_A



Family:

Publication number	Publication date	Application number	Application date
US4100705 A	19780718	US19770767590	19770210
US4158941 A	19790626	US19780889320	19780323
US4598515 A	19860708	US19840584952	19840229

Priority:

US19770767590 19770210
US19840584952 19840229

US19780889320 19780323

US19790022131 19790320

Probable Assignee:

DIANA SILVIO

Assignee(s): (std):

DIANA SILVIO

Inventor(s): (std):

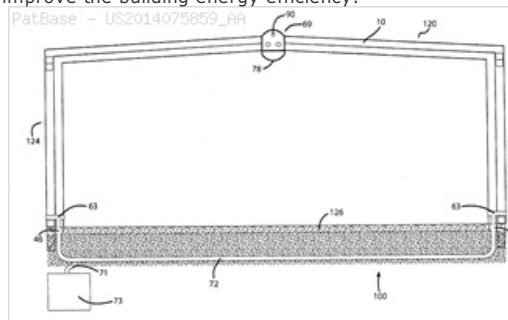
DIANA SILVIO

Abstract: A building insulation system for **roofs** and walls supported from the interior side of the building, which eliminates thermal bridges and bottom side ceiling fasteners to support the insulation system materials during the insulation and exterior sheathing process of the building construction. The insulation system creates an air gap space layer in **roofs** and in walls between the exterior wall and **roof** sheathing panels and the interior sheet material, which supports the insulation material layer. An air gap space enables active solar energy collection and its use to reduce the overall purchased energy for operation of the building. The insulation system preferably includes a support sheet material, a sheet material tensioning devices, an insulation material layer, insulation hanger retention devices, heat and air collection and distribution ducts, dampers, louvers, pipes, dehumidification and condensate collection devices used in the air gap layers of the building to improve the building energy efficiency.

International (IPC 8-9): E04B1/18 E04B1/24 E04B1/342 E04B1/62
E04B1/66 E04B1/70 E04B1/74 E04B1/76 E04B1/78 E04B5/48 E04B7/00
E04B7/18 E04B9/00 E04B9/02 E04B9/04 E04B9/06 E04B9/10 E04B9/22
E04B9/30 E04C3/02 E04C3/04 E04D13/16 E04D13/17 E04F13/00
E04G21/32 F24F7/007 (Advanced/Invention)

CPC: E04D13/17 E04B9/306 E04B1/4157 E04B2001/2481 E04B2001/2487 E04B7/024 E04D3/3602 E04D12/004 E04D12/006 E04B1/7666 E04B1/7675 E04B1/76 E04B1/7608 E04D13/1625 E04B5/48 E04B1/7069 E04B1/7076 E04B1/74 F24F7/02 E04B1/24 E04B2/7414 E04B2001/249 E04F13/0803 E04F13/0805 E04F13/12 F16B15/0046 E04B1/342 E04B9/0414 E04B9/24 E04B7/00 Y02B10/20 Y02B30/44 Y02E10/44 E04B7/18 E04B9/001 E04B9/04 E04B9/22 E04C3/04 E04G21/3261 E04B2009/0492 E04C2003/026 E04C2003/0404 E04C2003/0413 F24F7/007 E04D13/002 E04B1/18 E04C3/02 E04D13/1618 E04B9/02 E04B9/06 E04C2003/0465 E04C2003/0482 E04C2003/0491 E04D13/1612 E04B2001/2463 E04B9/303 E04B9/064 E04B9/10 E04F13/005 Y02A30/261 F24S10/30 F24S20/66 F24S20/67

US: 1/1 52/169.11 52/173.1 52/198 52/302.1 52/404.1 52/407.4 52/408 52/506.01 52/506.05 52/741.4



Publication number	Publication date	Application number	Application date
US2014075859 AA	20140320	US20120616709	20120914
US8844230 BB	20140930	US20120616709	20120914
US8991110 BA	20150331	US20140270379	20140506
US8991111 BA	20150331	US20140291019	20140530
US9133623 BA	20150915	US20140553440	20141125
US9441371 BA	20160913	US20160064056	20160308
US9528273 BA	20161227	US20160252253	20160831
US9580912 BA	20170228	US20150838938	20150828
US9790683 BA	20171017	US20160248417	20160826

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US20160248417	20160826	US20160252253	20160831		

Assignee(s): (std):	HARKINS DANIEL J
Inventor(s): (std):	HARKINS DANIEL J
Agent(s):	DONALD J

Title: Manufactured standard size dwellings having an integral base frame

Abstract: The movable manufacturing facility brings standard size home building comprehensively within a controlled factory environment. The main structure of the movable manufacturing facility is sufficiently tall to allow assembly and movement of standard size homes within. Multiple independent production lines are established to each produce portions of the dwelling in the form of subassemblies. Finishes, cabinets, appliances, **roofs**, paint, etc. are installed in the partially completed dwellings prior to houses leaving the production floor. The movable manufacturing facility allows a standard size home under construction to be advanced via a transport element from one production line to the next until complete. The completed homes are subsequently transported on the transport element over a controlled access roadway to individual sites with pre-constructed foundations specifically designed to accept these standard size dwellings. The standard size house can be relocated from the transport element and placed directly onto the foundation. High capacity hoisting, such as clear span bridge cranes, are the key to material handling and transportation on the production lines in the movable manufacturing facility. A drive through alley large enough to accommodate semi-trucks with loaded trailers may be located within the main structure of the movable manufacturing facility.

Classifications:

International (IPC 8-9): B28B15/00 E04B1/343 E04B1/35 E04H5/02 (Advanced/Invention);

E04B1/35 (Advanced/Non-invention);

B28B15/00 E04B1/343 E04B1/35 E04H5/00 (Core/Invention);

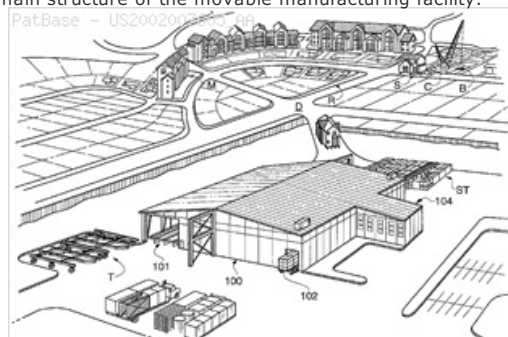
E04B1/35 (Core/Non-invention)

International (IPC 1-7): B28B15/00 E04B1/343 E04B1/35 E04H5/00 E04H5/02

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