

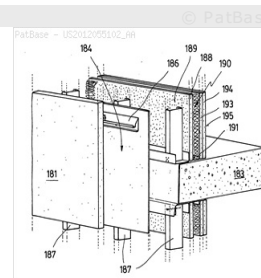
1) Family number: 43428362 (US2012055102A)

FUNCTIONAL SYSTEM FOR A CEMENT MORTAR PANEL WITH PRESTRESSED BIAXIAL REINFORCEMENT

Abstract: Source: US2012055102A This functional system for a cement mortar panel (102, 135, 160, 196, 216) with prestressed biaxial reinforcement (136, 161) consists concretely of a system contributing to the physical and formal and to the handling and use in conditions of maximum safety and efficiency of a panel (102, 135, 160, 196, 216) of the type prefabricated with cement mortar having prestressed biaxial reinforcement (136, 161) in which the cement mortar panel has embedded in the mass thereof versatile operating means (100, 157, 171, 175, 196, 217) on the panel ensemble (102, 135, 160, 196, 216) allowing for the handling and/or fixing thereof to suspension means to the structure of a building, of means controlling seismic phenomena and the settling movements of the building, means reducing damp inside the building and means reducing the infiltration of damp inside the panel.

Probable Assignee: PELLICER CARLOS F

Earliest Publication Date: 20090609



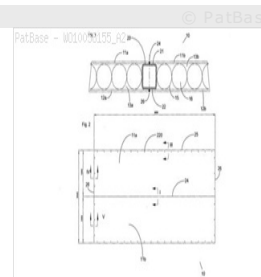
2) Family number: 42848967 (WO10058155A2)

PREFABRICATED PANELS AND METHOD OF MAKING THE SAME

Abstract: A pre-fabricated panel comprising: first and second upper plates; first and second lower plates; at least one central joining member; and at least one core between said upper and lower plates; wherein said at least one central joining member is positioned between at least one of said upper plates and at least one of said lower plates.

Probable Assignee: INTELLIGENT ENGINEERING LTD BS

Earliest Publication Date: 20100526



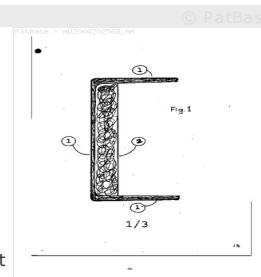
3) Family number: 31845929 (AU2004202568A)

FIBER CEMENT CONSTRUCTION PANEL

Abstract: Source: AU2004202568A PATENT SPECIFICATION Int. Class. (51): E04B Provisional Patent Application Number: 2003903592 Lodged (Earliest Priority Date) 11 July 2003 Complete Specification entitled Fiber-Cement Construction Panels Applicant (71): Inventor (72): John Lorenz Waldmann John Lorenz Waldmann Final Date for filing Complete: 12 July 2004 ABSTRACT: The present invention relates to cyclone coded construction panels made of light-weight, low mass construction. The panels of the invention are thin fiber-cement, high strength structural construction panels. These panels are made of fiber-cement molded and optionally keyed in a formed light weight metal frame of any desired size, and comprising either one-face fiber-cement, or two-face fiber-cement with a hollow center. The fiber-cement comprises an internal matrix of fibers created by vibrating the fiber-cement with a vibrating table. The cement mix may be vibrated with two opposing sources of vibration. The construction panels may have the frame molded as part of the panel, from the same fiber-cement material that makes up the face of the panels. This removes the need for a metal frame surround and the metal frame is thus optional. 0> FI 1/3 141t

Probable Assignee: WALDMANN J

Earliest Publication Date: 20050127



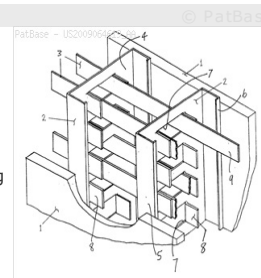
4) Family number: 33006783 (US2009064619A)

BUILDING CONSTRUCTION WITH LOST SHUTTERING AND CONSTRUCTION METHOD

Abstract: Source: US2009064619A A plurality of pre-formed panels are provided. Each panel comprises construction boards held apart from each other by spaced apertured metal strength members (2) to form a sandwich construction. Each strength member is provided with at least one bar (10) extending beyond an edge of the construction boards. Each strength member has a bar receiving portion (63) associated with its end opposite the at least one bar. To construct a wall, a first such panel is first erected with its strength members (2) extending vertically and with the bars (10) projecting above the remainder of the panel. The void between the construction boards is then filled with a settable material. A second panel is located vertically above the first by slotting the bars of the first panel into bar receiving portions of strength members in the second panel. Thereafter, the void between the construction boards of the second panel is filled with the settable material.

Probable Assignee: VERTEKA LTD

Earliest Publication Date: 20070907



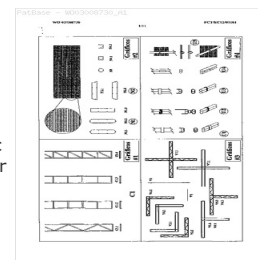
5) Family number: 28021627 (ZA200301627A)

CONSTRUCTION SYSTEM OF PREFABRICATED PANELS USING A SPATIAL METALLIC STRUCTURE.

Abstract: Source: YU15803A The invention relates to a system for constructing with pre-fabricated panels having a metallic spatial structure. The Invention also relates to the design thereof and a building construction system that makes use of pre-fabricated modular panels with structural metal tubes which are made from, in particular, expanded and ribbed perforated galvanised sheet steel and steel. Said panels, together with the connection and strengthening elements, are assembled on site and are filled or lined with concrete or cement mortar according to the use thereof. In this way, multi-purpose dwellings and buildings can be constructed precisely and quickly without the need for heavy or complicated tools. The end construction, which complies with international building codes, is solid and resistant to seismic hazards, hurricanes, tornadoes and fire. Said novel design can be used to produce kits (sets of pieces to be mounted) for dwellings and buildings that are easy for end users to assemble.

Probable Assignee: BCG INTERNAT LTD

Earliest Publication Date: 20021204



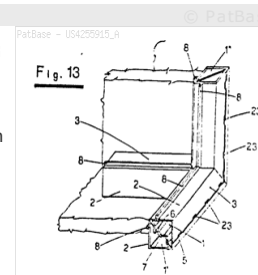
6) Family number: 18695968 (US4255915A)

PROCESS FOR PRODUCING PREFABRICATED PANELS AND TRIDIMENSIONAL ELEMENTS FOR BUILDING AND PRODUCTS OBTAINED FROM SAID PROCESS

Abstract: Source: US4255915A The invention is related to a process for producing prefabricated panels and tridimensional elements for building and the products obtained from said process. The panels produced are provided with a peripheral metallic frame (1), the sides of which are composed by shaped metallic sheet with an isosceles right-angled triangle cross section, the hypotenuse of which forms the outer face (4) of the panel, while the cathetus forms the inner face (2) of the frame having a width greater than the thickness of the main cement mixture layer (15) of the panel, the panels being assembled together along said inclined face and welded to form a tridimensional element.

Probable Assignee: ANJIERO MURIOTSUTOO

Earliest Publication Date: 19791019



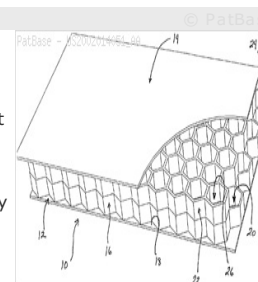
7) Family number: 28177321 (US2002014051A)

HIGH STRENGTH LIGHT-WEIGHT FIBER ASH COMPOSITE MATERIAL, METHOD OF MANUFACTURE THEREOF, AND PREFABRICATED STRUCTURAL BUILDING MEMBERS USING THE SAME

Abstract: Source: US2002014051A A prefabricated structural building panel is disclosed. The panel includes a first sheet having inner and outer planar surfaces. A plurality of structural ribs are disposed on the inner surface of the first sheet and are interconnected to form a geometric design having a plurality of chambers. The first sheet and the structural ribs are integrally formed as a single unit from a fiber and fly ash composite material. In preferred form, the cement composite includes a mixture of a commercial grade fly ash having a high lime content and a dry flue-gas desulfurized fly ash.

Probable Assignee: AEROCK INC

Earliest Publication Date: 20011101



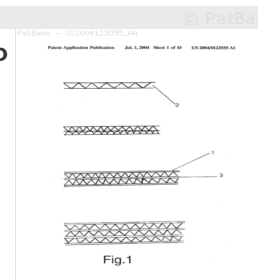
8) Family number: 30689922 (US2004123555A)

PRE MANUFACTURED STRUCTURAL PANEL CONSISTING OF A FLAME RETARDANT EXTERNAL CRUST AND AN AEROBOARD CORE FABRICATED FROM LAMINATIONS OF UNCOMPRESSED CARDBOARD, IMPREGNATED BY RESIN SOLUTIONS RECOVERED FROM POST CONSUMER THERMOPLASTICS

Abstract: Source: US2004123555A A premanufactured structural composite panel consisting of a cardboard core impregnated with resin solutions recovered from post consumer thermoplastics, and an impact resistant and flame resistant crust formed from Portland cement mortar or polymer cements formulated from said recovered resin solutions, particulates and fibres or fabric and decorated using coatings formulated from said recovered resin solutions. The flame retardant treatment includes ammonium, boron, phosphorous compounds for the cardboard and recovered resin solutions that demonstrate a flame retardant character.

Probable Assignee: COLE JEFFERSON ANTHONY

Earliest Publication Date: 20040701



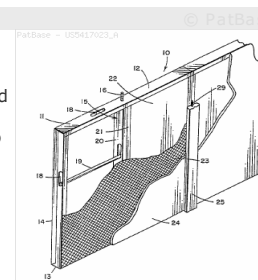
9) Family number: 10686894 (US5417023A)

BUILDING PANEL APPARATUS AND METHOD

Abstract: Source: US5417023A A prefabricated panel is made of a plurality of elongated metal frame members attached together to form a panel framework. At least one stud is attached between two of the panel frame members and has a pair of elongated stud members attached together at each end thereof with a molded polymer composite end member to form a thermal break therein. A metal reinforcing rod is attached to each molded composite end member and extends the length of the stud and may be attached through to the roof rafters or trusses. The prefabricated panel may be filled with insulation and have an expanded metal mesh covering on one side to act as a stiffening for the framework and to support a lightweight concrete coating. A method of making a reinforcing stud and panel is provided including molding a pair of end stud members in a predetermined shape and selecting a pair of elongated metal stud members shaped for attachment to the molded end stud members and attaching each stud member at each end to one of the molded end members. An elongated reinforcing metal member is attached through the stud and to each molded end member to provide a reinforcing stud member easily attached to a panel. The method further includes attaching the reinforcing stud into a prefabricated panel.

Probable Assignee: MANDISH THEODORE O

Earliest Publication Date: 19950523



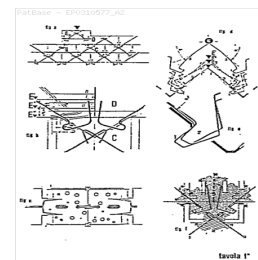
10) Family number: 4379196 (EP0310577A2)

PREFABRICATED MODULAR ELEMENTS FOR BUILDING CONSTRUCTIONS

Abstract: Source: EP0310577A2 The invention, object of the present description, specifically concerns the field of industrial production and systemic use of small and large prefabricated modular elements, in civil and industrial building constructions for the composition of vertical, inclined, curved, bearing, self-bearing, composite, antiseismic walls (B, C, D). It comprises a specific metal articulated device (E), mounted in an appropriate enclosing cavity provided in the prefabricated elements in question, which device, in view of its automatic operation, provides the elements themselves, firstly, with particular features of quick and simple assembly and connection to a wall. Secondly, it provides the assembled walls with characteristics of homogeneity in structure, function and finishing, even as regards the component junctions, which are dry mounted and mechanically locked, together with the network of steel arms which are meshed together and cemented. Thirdly, the automatic mechanical and structural features provide the assembly with a wide flexibility of use, also in terms of compatibility, versatility of assembly, capability of being equipped and serviced.

Probable Assignee: COLONNA CARLO COLONNA PAOLA

Earliest Publication Date: 19890405



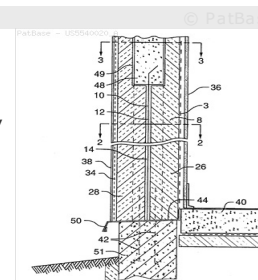
11) Family number: 9448518 (US5540020A)

BUILDING PANEL

Abstract: Source: US5540020A A prefabricated panel is disclosed which has high structural strength and simplifies the fabrication of buildings on site. The panels cooperate with structural grid type members to provide infill for the grid while, more importantly, significantly contributing to the overall structural stability of the building. The structural grid type members, in a preferred embodiment, are of a cement material and can be poured in place in cavities preformed in the panels. The panels can be prefabricated and, in a preferred embodiment, for interior and exterior finish materials are part of the panels.

Probable Assignee: SANTINI DANIEL E

Earliest Publication Date: 19960327



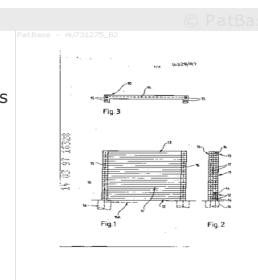
12) Family number: 8633561 (NZ314415A)

PREFABRICATED PANEL FOR A WALL STRUCTURE MADE UP FROM BLOCKS AND A BOND BEAM

Abstract: Source: AU199716328A 2) Application Date 14/03/97 A A 1. A prefabricated panel for a wall structure, such as a fence, the panel comprising a plurality of courses of building blocks with at least some of the building blocks having apertures therein which are vertically aligned to form through holes in the panel at spaced locations therealong, and at least one composite bond beam along the bottom of the panel, the courses of building blocks being supported by the bond beam(s). LF

Probable Assignee: TROIANI S

Earliest Publication Date: 19970918



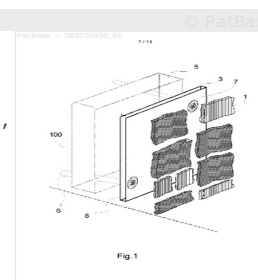
13) Family number: 59227724 (GB2536036A)

IMPROVEMENTS IN AND RELATING TO PRE-FABRICATED STONE PANELS, A METHOD OF CONSTRUCTING A WALL FROM PRE-FABRICATED STONE PANELS AND A CONSTRUCTION KIT

Abstract: Source: GB2536036A A prefabricated panel comprising a carrier support board 3, a plurality of stone pieces 1, and an adhesive for bonding the stone pieces to the carrier support board. The adhesive may be moisture curing and preferably diphenylmethane-4-4'-diisocyanate based. When mist sprayed with 100 g of cold water per 1000 g of adhesive, the film thickness of the adhesive will increase from 2 mm to 10 mm and rise around the sides of the stone pieces to anchor them. The support board may comprise magnesium silicate or calcium silicate. The panel may further comprise a layer of insulation 5 adhered to the support board by a solvent free vinyl chloride/ hydroxypropyl acrylate/ vinyl laurate terpolymer, preferably combined with a co-solvent such as monopropylene glycol which slows the drying. Multiple panels may be attached to an existing wall structure by metal fixings wherein the finished appearance resembles a traditional stone wall.

Probable Assignee: WESTPORT STONE WORKS LTD

Earliest Publication Date: 20160907



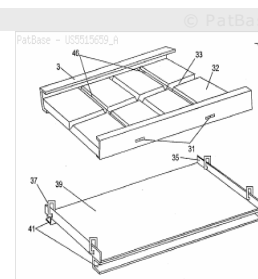
14) Family number: 12533124 (US5515659A)

CONSTRUCTION SYSTEM USING PANELIZED INSULATION HAVING INTEGRAL STRUCTURAL FRAME

Abstract: Source: US5515659A A building system for wall construction utilizes a prefabricated panel having two layers of foamed insulating sheets sandwiched around a layer of concrete or other cementitious material. Channels are cut into an interior face of one of the panels. The channels receive cement, which provides a reinforcing structure when hardened. Steel vertical channel studs encase the sandwiched layers on two sides of the panel. The vertical channel studs have a vertical surface which is fastened to a similar, opposing vertical channel stud of an adjoining panel to effectively create a vertical I-beam support when the panels are assembled together. The panels of the invention can be readily transported to a worksite, assembled, and finished on-site with a stress-skin to yield a wall which is extremely rigid, insulative, and resistant to forces such as fire, water, termites, and impact.

Probable Assignee: DASPIT PAUL F

Earliest Publication Date: 19960514



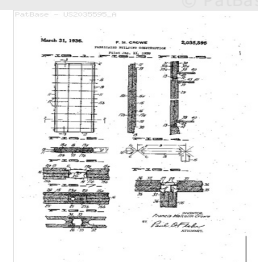
15) Family number: 22182452 (US2035595A)

FABRICATED BUILDING CONSTRUCTION

Abstract: Source: US2035595A 1. I claim: I.. In a building construction, a prefabricated panel unit for walls, comprising members forming a rectangular frame, and a rigid body filling the space within said frame, the thickness between the surfaces of said body being greater than the depth of the members comprising the rectangular frame, shoulder offsets occurring along the juncture of said framing members with the body, thereby permitting the subsequent application of material to cover the exposed portion of said marginal framing members and allowing the outer surface of said covering material to be flush with ,surfaces of the body portion of the panel unit.

Probable Assignee: MALCOLM CROWE FRANCIS

Earliest Publication Date: 19350423



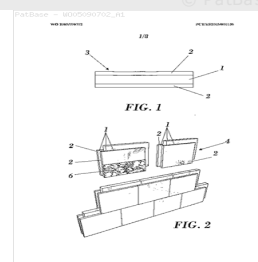
16) Family number: 30738065 (WO05090702A1)

SYSTEM FOR CONSTRUCTION WITH PRE-FABRICATED PANELS, AND PRE-FABRICATED PANEL

Abstract: The invention relates to a constructions system based on the use of panels comprising a core (1) that is made from expanded polystyrene or polyurethane and at least one resistant resin layer (2). According to the invention, the aforementioned panels can be assembled in order to produce partitions, walls, ceilings and other construction elements, without the need for any on-site masonry work. The panels provide a mechanical strength similar to that obtained with standard materials, but also offer better thermal and acoustic insulation characteristics. In addition, said panels are lighter and of very low cost and, as a result, can be handled and assembled easily and simply, thereby reducing the end cost of the construction.

Probable Assignee: ONECA GONZALEZ JOSE

Earliest Publication Date: 20040616



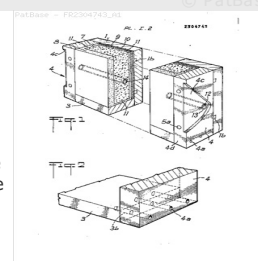
17) Family number: 3544677 (FR2304743A)

PANNEAU PREFABRIQUE DE FACADE PREFABRICATED INSULATING FACING BLOCK - HAS NATURAL STONE EDGE FRAME AND OUTER FACING, FILLING OF CONCRETE FOAM AND FELT, INNER PLASTER FACING

Abstract: Source: FR2304743A (Claim 1) 1. Panneau prefabrique de facade destine a etre fixe sur une structure de support du mur de facade.d'un batiment, et du type comportant une plaque de facade, une plaque ou couche intermediaire d'isolement phonique et thermique, et une plaque dite interieure en platre, caracterise en ce qu'il comporte en outre,un cadre rectangulaire constitue par deux traverses et deux montants de section rectangulaire en pierre, que ce cadre entoure lateralement la plaque intermediaire et la plaque interieure, et que la plaque de facade est constituee par une plaque de pierre fixee sur le cadre, au moins partiellement par collage. Prefabricated facing block has an outer facing (1) of natural stone such as a sedimentary or a volcanic rock. A rectangular frame made of the same type of rock as the outer facing has two uprights (4) and two crosspieces (3). The outer facing is the same size as the frame and is attached to it. Metal reinforcement is fixed to the back of the facing and the frame, followed by an intermediate layer (7) of concrete with holes in it, or of hollow bricks, and then an internal thick coating of plaster (8). A layer of synthetic foam (9) is inserted between the intermediate layer (7) and the facing (1) and a sheet of felt (10) laid between the foam (9) and the intermediate layer (7).

Probable Assignee: BASSI ROGER

Earliest Publication Date: 19761015



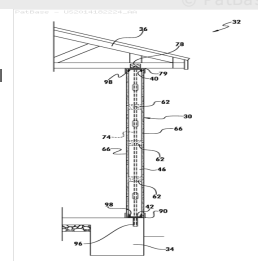
18) Family number: 56831059 (US2014182224A)

WALL PANEL AND BUILDING SYSTEM

Abstract: Source: US2014182224A A composite, prefabricated panel for building construction. A panel includes a central core having a first face and a second face. The central core includes structural framing members assembled to define at least one opening. A substantially rigid insulation is disposed in the at least one opening of the structural framing members. A settable cement, which may be, for example, phosphate ceramic, is provided on each of the first face of the central core and the second face of the central core to form a first face of the panel and a second face of the panel. The insulation may define a plurality of passages, each with phosphate ceramic extending through the passage between and being monolithic with the phosphate ceramic on the first face of the central core and the phosphate ceramic on the second face of the central core. A building system with such panels is provided.

Probable Assignee: PRITON LLC

Earliest Publication Date: 20140703



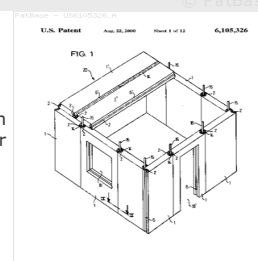
19) Family number: 20393175 (US6105326A)

BUILDING, COMPRISING PREFABRICATED COMPONENTS

Abstract: Source: US6105326A PCT No. PCT/DE95/00355 Sec. 371 Date Nov. 4, 1996 Sec. 102(e) Date Nov. 4, 1996 PCT Filed Mar. 15, 1995 PCT Pub. No. WO95/27106 PCT Pub. Date Oct. 12, 1995The invention relates to a building comprising prefabricated components formed as wall and ceiling panels which are produced with a frame; the frame is an assembly of beam and angle parts which are held together and filled with a building material, such as mortar, concrete or Torcret, so as to form a flat panel.

Probable Assignee: SCHMIDT LUTZ R

Earliest Publication Date: 19951005

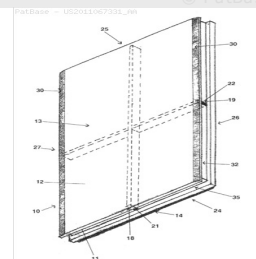


PANEL BUILDING SYSTEM

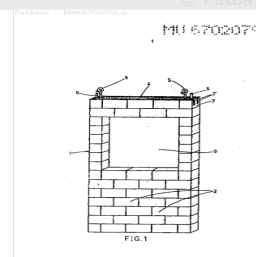
Abstract: Source: US2011067331A The present invention is directed to a prefabricated panel and panel building system for use in construction of houses. The prefabricated building panel has a foam body with one or more apertures in which to position one or more studs or noggins, one or more channels in the upper and lower end walls to locate about top and bottom track members respectively, and side end walls that are shaped to join to adjacent panels. The panel is located and attached to the track members to cover the track members and the one or more studs or noggins members are positioned and substantially enclosed in the one or more apertures to provide a structurally integral panel for a building structure.

Probable Assignee: CONSTRUCTION SYSTEMS AUSTRALIA PTY LTD

Earliest Publication Date: 20090219

**21) Family number: 199153 (BRMU6702079U)**
PAINEL MODULAR PRE-FABRICADO
MODULAR PANEL PRE-MANUFACTURED (MACHINE TRANSLATION)

Abstract: Source: BRMU6702079U Mi' v < V • 1 M:ir< Vi V:? RESUMO Patente de Modelo de Utilidade "PAINEL MODULAR PRE-FABRICADO", constituído de corpo (1), pa- ralelepipedal, composto por blocos (2) de concreto ou 05. outro, formando uma estrutura vazada, possuindo inter- namente armacao (3) de ferro, Incluindo tambem em sua face superior (4), ganchos de icamentos (5) e pinos (6), de fixacao, ambos provenientes da propria armacao (3) inserida no corpo (1), o qual possui suas extremi- 10. dades laterais (7) vazadas e com cortes (7) parale- 1 las, prevendo tambem perfis (8) encaixados nas late- rais do "PAINEL MODULAR PRE-FABRICADO", no qual pode- rao existir recortes (9) para Janela, porta ou outros. Relatório Descritivo da Patente de Mode- lo de Utilidade "PAINEL MODULAR PRE-FABRICADO". Diz respeito o presente relatório a um modelo de painel feito a partir de blocos compostos ba sicamente de areia (grossa, lavada), cimento (Portland), cal hidratada, po de pedra, pedrisco, blocos de concre- to, silico-calcareo, tijolos de barro, tijolos cerami- cos e blocos de concreto celular. Estes paineis serao fabricados sobre gabaritos de aço, dimensionados espe- cialmente para manter uniformidade de medidas, consti- tuindo um painel resistente a compressao e ao transpor- te. 0 "PAINEL MODULAR PRE-FABRICADO" possui configuracao paralelepipedal e sua formacao e hetero - genea, possibilitando a montagem de diversos modelos de paredes com recortes para janelas e portas, conforme de terminacao de projeto; o modelo inclui segmentos ocos e segmentos preenchidos com "grout". O "grout", tambem conhecido por "con- creto magro", constitui-se de cimento, pedrisco, areia e agua em quantidade suficiente para tornar a mistura bastante fluida com a finalidade de, ao ser colocado nos espacos vazios dos blocos, preenche-los por comple- to. Apos a secagem (ou "cura"), o "grout", em conjunto com a armacao de ferro, ira constituir as colunas ou vi gas, conforme o caso, que irao suportar os esforcos de flexao e auxiliar no suporte das tensoes de compressao, a que serao submetidos os paineis, A aplicacao do "grout" pode ser feita a- 05. traves de equipamentos automaticos, especialmente conce bidos para esta finalidade, ou, simplesmente, utilizan- do-se um recipiente qualquer que, ao ser entornado, des peje o "grout"11 atraves do Hduto" formado pelos vazios 1 dos blocos e/ou canaletas. 10. Apos a operacao de despejo, o "grout"11 e entao adensado, utilizando-se para isso uma barra de ferro, introduzida verticalmente no duto e executando um movimento de vai-e-vem, sendo retirada apos copieta do o adensamento. 15. Internamente o.modelo possui sistema ele trico ou hidraulico, se necessario; e terao sempre suas extremidades laterais vazadas e com cortes para a fixa- cao de grapas de aço, com a finalidade de unir melhor e de maneira compacta os paineis. 0 modelo preve o encai- 20. xe de perfis de protecao para facilitar o apoio do mes- mo quando de sua fabricacao. Uma melhor compreensao acerca do modelo, podera ser feita atraves dos desenhos anexos, de uma configuracao preferida, onde: 25. - A figura 1 mostra uma perspectiva do "PAINEL MODULAR PRE-FABRICADO", evidenciando recorte pa ra janela a titulo de exemplo; - A figura 2 e uma perspectiva de paineis modulares pre-fabricados, segindo o modelo encaixados 30. nos perfis e empilhados horizontalmente; A figura 3 e uma vista frontal do "PAINEL MODULAR PRE-FABRICADO", evidenciando armacao interna; e - A figura 4 e um detalhe da juncao de dois paineis, evidenciando os cortes que receberam as grapas. Observa-se que o modelo e constituído de corpo (1), de conformacao paralelepipedal, composto por blocos (2) de concreto ou outro, dispostos uns sobre os outros, formando uma estrutura vazada, na qual interna- mente havera armacao (3) de ferro estrutural, a serem recobertos com "grout". 0 "PAINEL MODULAR PRE-FABRICADO" possui em sua face superior (4) ganchos de icamento (5) e pi- nos (6) de fixacao em recortes existentes em chapas de conexao para ditos paineis, os ganhos e pinos sorb prove nientes da propria armacao (3) de ferro estrutural. 0 modelo possui suas extremidades late- rais (7) vazadas e com cortes (71) paralelos, para fixa cao de grapas de aço e posterior aplicacao de "grout". Nas laterais do corpo (1) serao encaixa- dos perfis (8) metalicos, moldados de acordo com suas linhas, protegendo e sistentando os paineis. De acordo com projeto pre-estabelecido, o "PAINEL MODULAR PRE-FABRICADO" podera incluir recor- tes (9) para Janela, porta ou outros. A fixacao do dito painel e dada atraves de canaletas previamente embutidas no solo, nas quais ira encaixar-se o modelo, por meio de aplicacao do "grout". M dfiaol0) dd-clj- TfC Relatório Descritivo da Patente de Mode- lo de Utilidade "PAINEL MODULAR PRE-FABRICADO". Diz respeito o presente relatório a um modelo de painel feito a partir de blocos compostos ba 05. sicamente de areia (grossa, lavada), cimento (Portland), cal hidratada, po de pedra, pedrisco, blocos de concre- to, silico-calcareo, tijolos de barro, tijolos cerami- cos e blocos de concreto celular. Estes paineis serao fabricados sobre gabaritos de aço, dimensionados espe- 10. cialmente para manter uniformidade de medidas, consti- tuindo um painel resistente a compressao e ao transpor- te. 0 "PAINEL MODULAR PRE-FABRICADO» possui configuracao paralelepipedal, e sua formacao e hetero - 15. genea, possibilitando a montagem de diversos modelos de paredes com recortes para Janelas e portas, conforme de terminacao de projeto; o modelo inclui segmentos ocos e segmentos preenchidos com "grout". 0 "grout"11, tambem conhecido por "con- 20. creto magro"11, constitui-se de cimento, pedrisco, areia e agua em quantidade suficiente para tornar a mistura bastante fluida com a finalidade de, ao ser colocado nos espacos vazios dos blocos, preenche-los por comple- to. Apos a secagem (ou "cura") o "grout", em conjunto 25. com a armacao de ferro, ira constituir as colunas ou vi gas, conforme o caso, que lrao suportar os esforcos de flexao e auxiliar no suporte das tensoes de compressao, a que serao submetidos os paineis. A aplicacao do "grout" pode ser feita a- 05. traves de equipamentos automaticos, especialmente conce bidos para esta finalidade, ou, simplesmente, utilizan- do-se um recipiente qualquer que, ao ser entornado, des peje o "grout" atraves do "duto" formado pelos vazios 1 dos blocos e/ou canaletas. 10. Apos a operacao de despejo, o "grout" e entao adensado, utilizando-se para isso uma barra de ferro, introduzida verticalmente no duto e executando um movimento de vai-e-vem, sendo retirada apos completa do o adensamento. 15. Internamente o modelo possui sistema ele ss trico ou hidraulico, se necessario; e terao sempre suas extremidades laterais vazadas e com cortes para a fixa- cao de grapas de aço, com a finalidade de unir melhor e de maneira compacta os paineis. 0 modelo preve o encai- 20. xe de perfis de protecao para facilitar o apoio do mes- mo quando de sua fabricacao. Uma melhor compreensao acerca do modelo, podera ser feita atraves dos desenhos anexos, de uma configuracao preferida, onde: 25. - A figura 1 mostra uma perspectiva do "PAINEL MODULAR PRE-FABRICADO", evidenciando recorte pa ra janela a titulo de exemplo; - A figura 2 e uma perspectiva de paineis modulares pre-fabricados, segundo o modelo encaixados 30. nos perfis e empilhados horizontalmente; 3. - A figura 3 e uma vista frontal do "PAINEL MODULAR PRE-FABRICADO", evidenciando armacao es trutural Interna e - A figura 4 e um detalhe da Juncao de 05. dois paineis, evidenciando os cortes que receberam as grapas. Observa-se que o modelo e constituído de corpo (1), de conformacao paralelepipedal, composto por blocos (2) de concreto ou outro, dispostos uns sobre os 10. outros, formando uma estrutura vazada, na qual interna- mente havera armacao (3) de ferro estrutural, a serem recobertos com "grout". 0 "PAINEL MODULAR PRE-FABRICADO" possui em sua face superior (4) ganchos de icamento (5) e pi- 15. nos (6) de fixacao em recortes existentes em chapas de 1 conexao



face superior (4) gancho de icamento (5) e pi 15. nos (6) de fixacao em recortes existentes em chapas de 1 conexao para ditos paineis, os ganhos e pinos sart> prove nientes da propria armacao (3) de ferro estrutural. O modelo possui suas extremidades late- rais (7) vazadas e com cortes (7f) paralelos, para fixa 20. cao de grapas de aço e posterior aplicacao de "grout". Nas laterais do corpo (1) serao encaixa- dos perfis (8) metalicos, moldados de acordo com suas linhas, protegendo e sistentando os paineis. De acordo com projeto pre-estabelecido, 25. o "PAINEL MODULAR PRE-FABRICADO" podera incluir recor- tes (9) para janela, porta ou outros. A fixacao do dito painel e dada atraves de canaletas previamente embutidas no solo, nas quais ira encaixar-se o modelo, por meio de aplicacao do "grout". MI); e> 0 50 73 -1ssV y. Eo 4 c, iJ4i> 551XINDICA£ss0 1. "PAINEL MODULAR PRE-FABRICADO", carac trizaueo por ser constituído por um corpo (1) de conforma cao paralelepipedal, composto por blocos (2) paralelepipe 05. dais de concreto ou outro, dispostos uns sobre os outros, formando uma estrutura vazada, a qual inclui internamente uma armacao (3) de ferro retangular, disposta de modo a acompanhar o contorno correspondente ao corpo (1) do pai nel, da qual originam-se ganchos (5) de icamento e pinos1 10. (6) de fixacao que sobressaem nas extremidades da face su perior (4) do corpo (1) do painel; sendo que as extremida des laterais (7) do corpo (1) apresentam-se vazadas e ' com cortes (7f) paralelos, nas quais poderao ser encaixa dos os perfis (8) metalicos; e ainda o painel podera in 15. cluir recortes (9) para janelas, portas e outros. Mi ' v V • 1 < M:ir ' Saw V: SUMMARY patent of utility model "PRE-FABRICATED PANEL", consisting of body (1), pa-ralelepipedal, composed of blocks (2) concrete or 05. another, forming a hollow structure, with inter-nally armacao (3), Including also in its upper surface (4), icamentos hooks (5) and (6), fixation, both from his own armacao (3) inserted into the body (1), which has its extremi-10. DADES sides (7) leaked and cuts (7) tourist industry-1, predicting too (8) profiles embedded in late-rai s "MODULAR PANEL PRE-MANUFACTURED", in which one can rao exist cutouts (9) for window, door or other. Descriptive Report of patent Mode it Usefulness "MODULAR PANEL PRE-MANUFACTURED". Concerns the present report to a Panel template made from composite blocks ba sand physically (thick, washed), cement (Portland), hydrated lime, po stone, gravel, concrete blocks, calcium calcareo, mud bricks, bricks cerami-cos and cellular concrete blocks. These panels will be manufactured on stainless steel jigs, sized espe-cially to maintain uniformity of measures, pose a small compression-resistant Panel and to transpose you. 0 "MODULAR PANEL PRE-MANUFACTURED" has paralelepipedal Setup and its formation and hetero-genea, enabling the mounting of several models of walls with cutouts for Windows and doors, according to respective termination of project; the model includes hollow segments and segments filled with "grout". the "grout", also known as "con-ss Grande skinny", consists of cement, gravel, sand and water in sufficient quantity to make the mixture smooth enough for the purpose of, to be placed in the empty spaces of the blocks, fill them by complete to. After drying (or "cure"), the "grout", in conjunction with the armacao de iron, ira constitute the columns or gas, as the case may be, that will support the efforts of SAG and assist in the support of the compression stresses, which will be submitted to the panels, the application of the "grout" can be made-05. through automatic equipment, especially conce bidos for this purpose, or simply use-of-if a container any which, when poured, des Peja "grout11 through the Hduto" formed by the empty blocks 1 and/or channels. 10. After the dump operation, the "grout11 and then densified, using a crowbar, introduced vertically in the duct and performing a movement of val back-and-forth, being withdrawn after copieta of the densification. 15. model internally has he trico or hydraulic, if necessary; and have always their side castings and ends with cuts to the fixed stainless steel grapas dog, with the purpose of uniting and compact way panels. 0 model provides the enca1-20 and protection profiles to facilitate the support of the month-mo when your manufacturing. A better understanding about the model, can be made through drawings, a preferred setup attachments, where: 25.-Figure 1 shows a perspective of "MODULAR PANEL PRE-MANUFACTURED", showing pa ra clipping window the title for example;-figure 2 and a pre-manufactured modular panels, segiindo the embedded model 30. profiles and stacked horizontally; Figure 3 and a frontal view of the "MODULAR PANEL PRE-MANUFACTURED", evidencing armacao es trutural; e-4 and figure a juncao detail of two panels, showing the cuts that will receive the grapas. noted that the model and consists of body (1), of conformation paraleleplpedal, composed of blocks (2) concrete or another, arranged on top of each other, forming a hollow structure, in which inner-mind be armacao (3) structural iron, to be covered with "grout". 0 "MODULAR PANEL PRE-MANUFACTURED" has in its upper surface (4) icamento hooks (5) and pi (6) fixation in existing clippings in connection plates for such panels, the gains and prove his own players sorb pins armacao (3) structural iron. 0 model has its ends late-rai s (7) leaked and cuts (71) paralels, for fixed of grapas de aço and subsequent application of "grout". on the sides of the body (1) will be fit (8) metallic profiles, molded according to their lines, protecting and panels sistentando. in accordance with pre-approved project established, the "MODULAR PANEL PRE-MANUFACTURED" may include CU-tes (9) for window, door or other. the fixation of the Panel and given by channel previously embedded in the soil, in which ira fit the model, through application of the "grout". M dfiaol0 dd-clj-TfIC Descriptive Report Mode patent it Usefulness "MODULAR PANEL PRE-MANUFACTURED". concerns the present report to a Panel template made from composite blocks ba 05. physically (thick, washed), cement (Portland), hydrated lime, po, pedrlsco stone, concrete blocks, calcium calcareo, mud bricks, bricks cerami-cos and cellular concrete blocks. These panels will be manufactured on stainless steel jigs, sized espe-cially, 10 to maintain uniformity of measures, pose a small compression-resistant Panel and to transpose you. 0 "PRE-FABRICATED PANEL» has paraleleplpedal Setup, and your training and straight-15. genea, enabling the mounting of several models of walls with cutouts for Windows and doors, according to respective termination of project; the model includes hollow segments and segments filled with "grout". 0 "grout11, also known as" con-20. erect magro11, consists of cement, pedrlsco, sand and water in sufficient quantity to make the mixture smooth enough for the purpose of, to be placed in the empty spaces of the blocks, fill them by complete to. After drying (or "cure") | the "grout", together 25. with the armacao de iron, ira constitute the columns or gas, as the case may be, that Irao support the efforts of SAG and assist in the support of the compression stresses, which will be submitted to panels. the application of the "grout" can be made-05. through automatic equipment, especially conce bidos for this purpose, or simply use-of-if a container any which, when poured, des Peja "grout" through "duct" formed by the empty blocks 1 and/or channels. 10. After the dump operation, the "grout" and then densified, using a crowbar, introduced vertically in the duct and running a back-and-forth motion, being withdrawn after the complete densification. 15. system model internally he ss trico or hydraulic, if necessary; and have always their side castings and ends with cuts to the fixed stainless steel grapas dog, with the purpose of uniting and compact way panels. 0 model provides the encai-20 and protection profiles to facilitate the support of the month-mo when your manufacturing. A better understanding about the model, can be made through drawings, a preferred setup attachments, where: 25.-Figure 1 shows a perspective of "MODULAR PANEL PRE-MANUFACTURED", showing pa ra clipping window the title for example;-figure 2 and a perspective of modular panels pre-manufactured, the model seated 30. profiles and stacked horizontally. 3. -Figure 3 and a frontal view of the "MODULAR PANEL PRE-MANUFACTURED", showing Internal and trutural es armacao-Figure 4 and a Juncao detail of 05. two panels showing the cuts that will receive the grapas. Noted that the model and consists of body (1), of conformation paraleleplpedal, composed of blocks (2) concrete or another, arranged on top of each other, forming a 10 structure leaked, in which inner-mind be armacao (3) structural iron, to be covered with "grout". the "MODULAR PANEL PRE-MANUFACTURED" has in its upper surface. (4) icamento hooks (5) and pi-15. (6) fixation in existing clippings in 1 connection plates for such panels, the gains and pins> prove his own players sart armacao (3) structural iron. 0 model has its ends late-rai s (7) leaked and cuts (7 '), for fixed 20. cao de grapas de aço and subsequent application of "grout". on the sides of the body (1) will be fit (8) metallic profiles, molded according to their lines, protecting and panels sistentando. in accordance with pre-approved project established, 25. "MODULAR PANEL PRE-MANUFACTURED" may include CU-tes (9) for window, door or other. the fixation of the Panel and given through channels previously embedded in the soil, in which ira fit the model, through application of the "grout". MI); and> 0 50 73 ss -1 V y} and 4 c, iJ4i> 551XINDICA £ ss 0 1. "MODULAR PANEL PRE-MANUFACTURED", trcizaueo char for being constituted by a body (1) to conform to cao paralelepipedal, composed of blocks (2) paralelepipe 05. dais de concrete or other arranged on top of each other, forming a hollow structure, which includes internally a armacao (3) rectangular iron, prepared so as to follow the contour corresponding to the body (1) of the nel, of which father originate hooks (5) de icamento e pinos1 10. (6) fixation that stand out at the ends of the face su superior (4) from the body (1) Panel; the recommended side (7) des (1) are cast and ' with cuts (7f) parallel, in which can be fit of (8) metallic profiles; and yet the Panel can in 15. clude cutouts (9) for Windows, doors and other .

Probable Assignee: TEC PREM PRE MOLDADOS DE CONCR

Earliest Publication Date: 19881220

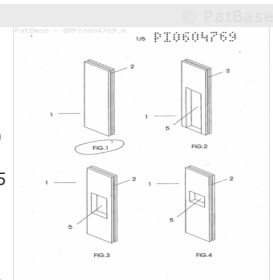
22) Family number: 41971722 (BRPI0604769A)

PAINEL CIMENTICIO PRE-FABRICADO COM AGREGADO LEVE, SUA COMPOSICAO E MONTAGEM PRE-FABRICATED CEMENT PANEL WITH LIGHTWEIGHT AGGREGATE, THEIR COMPOSITION AND ASSEMBLY (MACHINE TRANSLATION)

Abstract: Source: BRPI0604769A ft • 1/1 « » i ss 9 9 # e • • • • • # i > « 9 1 9 9 9 9 • 4 9 9 9 9 • • 99 4 9 ss 999 99 • 9 • . » 9 99 • • 9 9 9 ss 9 9 9 / 9 9 9 9 RESUMO "PAINEL CIMENTICIO PRE-FABRICADO COM AGREGADO LEVE, SUA COMPOSICAO E MONTAGEM" e constituido por um painel pre-fabricado (1), pertencente ao campo da construcao civil e 5 confeccionado com poliuretano, material leve e reciclado, o qual contem na superficie de seus rebordos laterais um rebaixo de encaixe (2) para acoplamento de perfil metalico (3) e armacoes metalicas em forma de "T" (6), "L" (7) e "T" invertido (9), todos quadraticos para travamento entre varieis pecas postadas lado a lado, o qual e posteriormente preenchido com produto 10 cimenticio; as placas sao formadas com poliuretano reciclado e permitem variacoes de 125 milimetros (cento e vinte e cinco) para paredes e anteparos externos e 100 milimetros (cem) para paredes ou anteparos internos, usa-se um modelo de tubo ou perfil que se encaixe adequadamente em seus rebaixos de encaixe (2), sendo que o vao interno e externo e preenchido com a massa 15 cimenticia, atraves de orificios (8), de modo que ocorra a juncao dos paineis; os paineis tambem podem ser configurados com vaos de superficiais (5) para formacao de janelas e porta de passagem. • 1/1 ft « » i ss 9 9 # 9 and • • • • • # i and gt; '9 1 9 9 9 9 9 9 4 • • • • 9 99 4 9 ss 999 9 99 • • . » 9 99 • • 9 9 9 ss 9 9 9 9/9 9 9 9 SUMMARY" PANEL cementitious PRE-MANUFACTURED WITH ADDED LIGHT, COMPOSITION YOUR AND ASSEMBLY "and consists of a pre-fabricated panel (1), belonging to the field of construction and 5 made from polyurethane, lightweight and recyclable material which contains on the surface of its side edges a locking recess (2) for coupling metallic profile (3) and frames Metal in the form of "T" (6) "L" (7) and inverted "T" (9), all quadratic for the locking parts varying between stationed side by side, which is then filled with product 10 cement; the plates are formed from recycled polyurethane and allow variations of 125 mm (one hundred and twenty five) for walls and external and 100 mm screens (one hundred) to walls or internal bulkheads, it uses a tube model or profile that adequately fit in their locking recesses (2), wherein the inner and outer vain and filled with cement mass 15, through holes (8), so that occurs joining the panels; the panels can also be configured with superficial spans (5) for formation of windows and door pass.

Probable Assignee: MIERS EDSON

Earliest Publication Date: 20080624



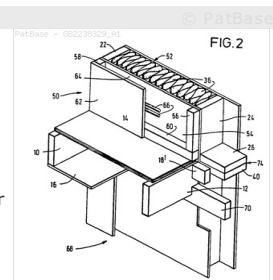
23) Family number: 6688735 (GB2238329A)

BUILDING PANEL

Abstract: Source: GB2238329A A prefabricated building panel has insulation 36, an outer wall 52 comprising moisture-resistant and fire-resistant material, for example plasterboard, and an inner wall 54 of structural boarding, for example plywood, such that the outer wall has a lower vapour resistance than the outer wall. The internal plywood sheathing provides lateral bracing for the panel which, in earlier designs, was previously provided on the outside (Fig. 1). The relatively high vapour resistance of plywood, in comparison with that of the external moisture-resistant plasterboard, means that airborne water vapour will naturally pass through the wall to the exterior. No separate breather membrane or vapour barrier is required.; There is also disclosed a building structure using a pair of such panels which abut each other 74 so ensuring that the integrity of the wall insulation is not broken by the intermediate floor 14 or the joists 10, 12.

Probable Assignee: TIMBER RESEARCH AND DEV ASS

Earliest Publication Date: 19910529



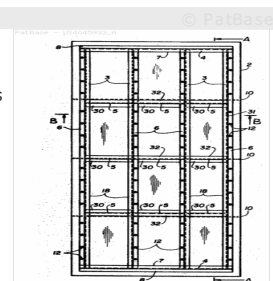
24) Family number: 1437047 (US4045933A)

PREFABRICATED PANEL STRUCTURE

Abstract: Source: US4045933A A prefabricated panel utilizing a lightweight metal frame fabricated from metal members having a web and two substantially parallel flanges which extend in opposite directions from the edges of the web. The facing is joined to said frame by means of joining means which extend from the back of said facing through holes in the flanges of the members of the frame.

Probable Assignee: GRILLO JOSEPH R

Earliest Publication Date: 19770906



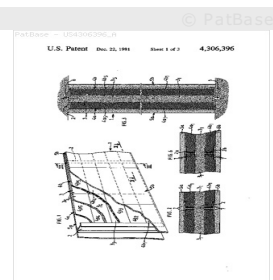
25) Family number: 1480758 (US4306396A)

LAMINATED PARTITION FOR BUILDING APPLICATIONS

Abstract: Source: US4306396A This laminated partition for building applications comprises spaced uprights and, in each space formed between two uprights, a sandwich structure comprising a plurality of layers of materials, namely a central layer or core consisting of at least one rectangular plate of a first material having a low density and a high degree of sound and thermal insulation, and on either side of the core an intermediate layer consisting of at least one rigid rectangular plate having its vertical edges fastened to the uprights, and made of a second material having a density which is low but higher than that of the first material, said second material having good sound and thermal insulation properties, and an outer lining layer bonded to the outer surface of the adjacent intermediate layer and made of a non-flammable material having good sound and thermal insulation properties, and a density higher than that of the second material.

Probable Assignee: IOTTIREGINE

Earliest Publication Date: 19800516



26) Family number: 2378875 (DE2507090A1)

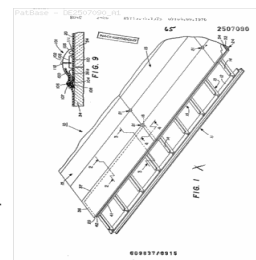
PLATTENFOERMIGES BAUELEMENT PREFABRICATED PANEL FOR ROOFS-WALL - HAVING CORRUGATED

METAL CORE PLATE, HARD SMOOTH FACING PLATE, OUTER FLAPPED MEMBRANE

Abstract: Source: DE2507090A1 Ansprüche 9 Plattenfoermiges Bauelement, gekennzeichnet durch einen zusammengesetzten Kern mit einem in Laengsrichtung verlaufende Wellungen aufweisenden Zwischenteil, der an einer Seite eine Verkleidungsplatte mit einer verhaeltnis maessig harten, glatten, Last aufnehmenden Oberflaeche traegt, und durch eine auf die aeussere Flaecher der Verkleidungsplatte aufgebraachte, wetterfeste Membranschicht, die mindestens an einer Kante einen sich ueber den Kantenbereich erstreckenden Lappen zur Auflage auf einem entsprechenden, benachbarten Bauelement aufweist 2. Prefabricated building panel for roofs and walls has a composite core having an intermediate part with longitudinal corrugations, and carrying on one side a facing plate with a hard, smooth, load-bearing surface. A weather-resistant membrane layer covers the outer face of the facing plate, and has a flap on greater than or equal to 1 edge for placing over a similar adjacent building panel. High quality panels can be produced rapidly at low cost. Good resistance to weather and loads. Easily mounted and maintained. Can be sawn, drilled, screwed and cut on site. A variety of types can be produced, according to the building requirements, e.g. different shapes, weights, strengths and thermal insulation props.

Probable Assignee: STAR MFG CO

Earliest Publication Date: 19760909



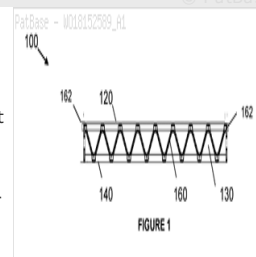
27) Family number: 70944670 (WO18152589A1)

PREFABRICATED PANEL FOR A FLOORING SYSTEM, METHOD OF FORMING SUCH A PREFABRICATED PANEL, AND A FLOORING SYSTEM

Abstract: A prefabricated floor panel (100,800) is provided for use in a floor system. The floor panel (100,800) includes a first board (120,820) and a second board (140, 840) spaced apart from the first board (120, 820) by a spacing element which is disposed in the space (130, 830) between the first and second panels (120, 140; 820, 840) to form a load bearing floor panel. The spacing element may include at least one structural reinforcement (160) connected to the first and second panels (120, 140) and/or an insulating material (860) which fills the space (130, 830) between the first and second panels (120, 140; 820, 840). In a flooring system, the floor panel (100, 800) may be secured to an adjacent floor panel and/or to a wall structure. The floor panel (100, 800) may also incorporate a drainage system.

Probable Assignee: JBW DESIGNS PTY LTD

Earliest Publication Date: 20180830



28) Family number: 905040 (US3503165A)

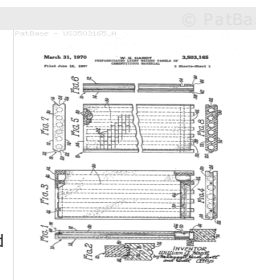
PREFABRICATED LIGHT WEIGHT PANELS OF CEMENTITIOUS MATERIAL

Abstract: Source: US3503165A ABSTRACT OF THE DISCLOSURE

Panels and wall structures formed thereof in which the panels are prefabricated of cementitious material with voids extending continuously through the interior thereof . from the lower edge to a distance short of the top edge 15 m riG. 9; Fig. 4 is a top plan view of the panel shown in FIGS. 1 and 3; Fig. 5 is a front elevational view of a modification in a prefabricated panel embodying the features of this invention; Fig. 6 is an end elevational view of the panel shown in Fig. 5; Fig. 7 is a top plan view of the panel shown in Fig. Fig. 8 is a sectional view of the panels shown in FIGS. 5-7; Fig. 9 is a front elevational view of a further modification in a prefabricated panel; Fig. 10 is a sectional view through the panel shown with the portions between the hollow sections extending downwardly as feet adapted to be received and supported within grooves provided in a footing and with recessed portions extending continuously crosswise through one wall of the panel and for a distance inwardly to intersect the hollow sections for continuous circulation of air through the interior of the panel when in the assembled relationship and designs in the form of brickwork, stone-work and the like impressed in one or both of the surfaces of the panel walls.

Probable Assignee: ARROWALL CORP

Earliest Publication Date: 19700331



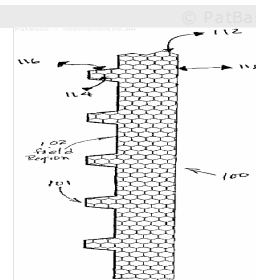
29) Family number: 19817203 (US2002020129A)

DEEP-RIBBED, LOAD-BEARING, PREFABRICATED INSULATIVE PANEL AND METHOD FOR JOINING

Abstract: Source: US2002020129A A prefabricated structural building panel having a deep ribbed sheet metal interior skin. The panel preferably has a light weight rigid highly insulative foam core bonded to inner and outer skins, and having a ribbed configuration for the interior skin. A method for building a structural wall by assembling panels in an edge to edge relationship to create a structural wall system with the ribbed interior skin providing the structural support. A prefabricated insulated structural panel, having a core material of various types of foam plastic bonded to an interior ribbed metal skin and an exterior skin of any one or combination of suitable exterior materials such as for example wood, fiber glass, cement, or metal. The edges of the panels are configured to abuttingly match corresponding edges of similarly configured panels when such panels are arranged in edge to edge relationship to form the structure wall of a building. The interior ribbed metal skin, when bonded to a foam core, the foam core being continuous and completely within the cavities or the valleys of the ribbed panel, and an outer skin bonded to the outer surface of the foam core, all combine to form a structural panel in which the ribbed interior skin will support substantially the entire axial load and the composite panel will support all the live or wind load to which it would be subjected.

Probable Assignee: WINTER TERESA G

Earliest Publication Date: 20020221



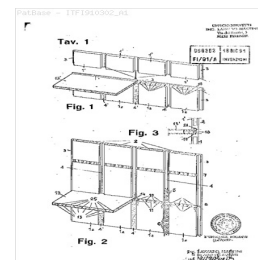
30) Family number: 14179545 (IT1253096B)

PREFABRICATED PANEL FOR BUILDING A WALL, ESPECIALLY A MULTI-STOREY ONE

Abstract: Prefabricated panel for forming the walls of a building, especially a multi-storey one, comprising a structure made of reinforced cement, plain or precompressed, with functions of load-bearing, insulation, and connection to the horizontal structures, with length reaching as far as the height of several stories of a building, with width extending to more than two metres, and with a thickness typical of outer walls of buildings having an independent skeleton, to be used in several units, in a vertical arrangement in the direction of the length or the width, placed side by side, in line or at an angle, in one or more superimposed rows.

Probable Assignee: CUBATTOLI CARLO

Earliest Publication Date: 19930619



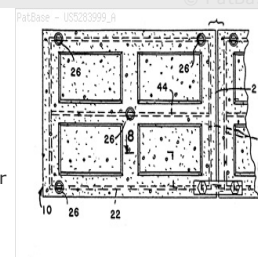
31) Family number: 10146449 (US5283999A)

PREFABRICATED PANEL FOR BUILDING CONSTRUCTION

Abstract: Source: US5283999A A concrete panel is provided having a threaded cylindrical concrete insert imbedded therein for receipt of a bolt. Preferably, the concrete inserts are imbedded in each corner of the panel. The inserts have an opening on at least one end thereof for receipt of a securing bolt after they have been imbedded in the concrete panel. Each insert has a passageway which allows a reinforcing bar to pass through the cylindrical insert. The concrete inserts can extend the entire thickness of the panel and the cylindrical bore opens on both sides of the panel. As a result the panel can be secured from either side during construction of a building. The panel can then be made with one style or configuration on one side and a different style on the other side. Thus, two different style buildings can be constructed from the panels.

Probable Assignee: NOVATEK INTERNATIONAL INC

Earliest Publication Date: 19930201



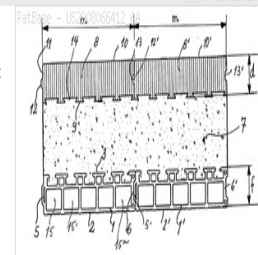
32) Family number: 41518187 (US2008066412A)

PREFAB PANEL FOR REALIZING A DOUBLE LAYER WALL IN BUILDINGS

Abstract: Source: US2008066412A Prefab panel for assembling a double layer wall of a building, with structural support function and thermal insulation. The panel includes at least one element of brick material having an exposed surface, a connection surface, a narrow side with a protrusion, and an opposite narrow side with a recess. Panel also includes an intermediate layer composed of cement mortar, and at least one element of insulating material with a connection surface, an exposed surface, a narrow side with a protrusion, and an opposite narrow side with a recess.

Probable Assignee: BIT TECHNOLOGIES LTD

Earliest Publication Date: 20080227



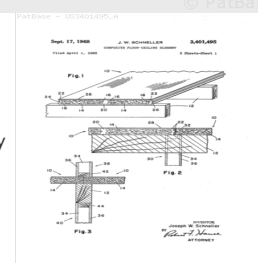
33) Family number: 836494 (US3401495A)

COMPOSITE FLOOR-CEILING ELEMENT

Abstract: Source: US3401495A ABSTRACT OF THE DISCLOSURE
A prefabricated panel including as one face a relatively thin, dense floor board and including as the opposite face a plurality of elements for forming an exposed ceiling and for providing the structural characteristics necessary for combination with a floor board for stiffness, which plurality of elements includes a plurality of relatively, thick, low density ceiling boards and a plurality of narrow, dense stiffeners, with the stiffeners between adjacent ceiling boards and at the outer edges of the ceiling boards, the stiffeners and ceiling boards being adjoined by respective .tongue and groove edges, and the ceiling boards and the stiffeners being laminated to the floor board.

Probable Assignee: NAT GYPSUM CO

Earliest Publication Date: 19680917



34) Family number: 21652383 (FR1452443A)

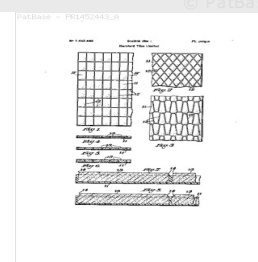
PANNEAU CARRELE PREFABRIQUE PREFABRICATED PANEL TILES (MACHINE TRANSLATION)

Abstract: Source: FR1452443A (Claim 1) 1. Panneau carrele prefabrique, caracterise en ce que son embase plane comporte une face avant a structure cellulaire constituee par des nervures depassant par rapport a elle et menageant n'importe quel dessin desire pour la reception de carreaux, les parois limitrophes des cellules assurant l'etancheite entre les carreaux.

Machine translation: (Claim 1) 1. Tiles precast panel, characterized in that its base has a flat front a cell structure constituted by ribs exceeding a relative sparing her and any design desired for the reception of tiles, the walls of neighboring cells, ensuring the sealing between the tiles.

Probable Assignee: HEREFORD TILES LTD

Earliest Publication Date: 19660225



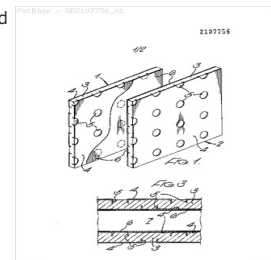
35) Family number: 23435798 (GB2107756A)

HEAT RESISTANT BUILDING PANEL

Abstract: Source: GB2107756A The panel comprises outer and inner leaves (1, 2) preferably 22 to 150 mms. apart, and suitably formed of non-combustible fire-resistant material. The leaves (1, 2) are faced on their inner surfaces with a layer of a heat-reflecting material (6), for example an aluminium or stainless steel foil. When one side of the panel is exposed to fire the heat is reflected across the cavity formed by the leaves. The other side of the panel therefore remains relatively cool.

Probable Assignee: CAPE DURASTEEL LTD

Earliest Publication Date: 19830421



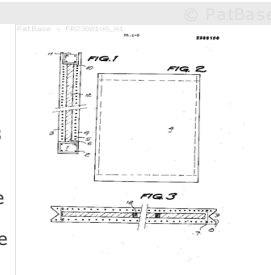
36) Family number: 3670049 (FR2388100A)

PANNEAU PREFABRIQUE, POUR LA CONSTRUCTION D'EDIFICES PREFABRICATED LIGHTWEIGHT CONCRETE BUILDING PANEL - HAS REINFORCED CONCRETE FACING WALLS JOINED BY LOWER BEAM AND LATERAL CHANNELS

Abstract: Source: FR2388100A Ce panneau de construction prefabrique comporte deux parois de parement paralleles 3 et 4, en beton leger arme, reunies entre elles par une poutre inferieure 1 en beton arme, s'appuyant sur un element en ciment de l'ouvrage. Les bords lateraux des deux parois sont reunis entre eux au moyen de montants lateraux qui forment des canaux en V exterieurement ouverts de raccordement a des poteaux de section carree. La partie superieure des parois est evidee en 11 et les evidements 11 juxtaposes lateralement forment un canal continu de reception d'une poutre superieure de jonction, une enceinte fermee 6 est ainsi menagee entre les deux parois de parement 3 et 4 et joue le role de chambre d'isolation. The prefabricated panel is for building construction, comprising plates with parallel edges for joining to the structure. Two parallel facing walls of lightweight reinforced concrete are joined together by a lower reinforced-concrete beam, resting on or forming part of the concrete structure, and by lateral uprights securing the lateral wall edges. The uprights form channels, open to the outside, and fitting over the structure framework members. With a set of such panels assembled alongside each other, their tops form a continuous channel for a top connecting beam and a closed chamber, acting as insulation, is formed between the walls.

Probable Assignee: PROMOTORA FRAMI SA

Earliest Publication Date: 19781117



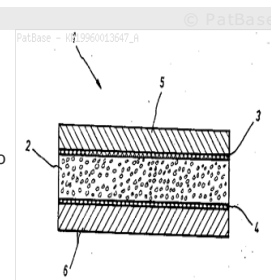
37) Family number: 14331586 (KR19960013647A)

METHOD OF MAKING CONSTRUCTIONAL DRY WALL PANEL

Abstract: Source: KR19960013647A The present invention relates to a wall construction materials of the house or apartment building is used, wall panels (DRY WALL PANEL) relates to a method for manufacturing insulation for the central part of the production process of the present invention, cement, foamed resin fiber yarn of mixture and forming the expanded polystyrene foam layer (2), both sides of the expanded polystyrene foam layer (3) (4), the mesh network to sitting # is committed to the surface of expanded polystyrene foam layer, a portion of a mixture of vermiculite and lightweight cement, fibers (10) (11) by pouring the concrete layer fiber, characterized in that the present invention as described above, the heat insulating portion and both sides of the central portion of the lightweight fiber concrete structure in accordance with the intended use, and use jyongja parts of the surface is thick, the thickness of the structural adjustment of the form panel 300? 10?-1, and can be in a prefabricated panel of the present invention, construction of apartment houses or of the outer wall and the partitioning, and invested the external panel is used for smooth grinding process, both long side bonded portion is used to part, seam construction finishes processing, Joyner and the joint, that is comparable to the taped, by finishing mortar filling is possible after construction is an elegant appearance, there is a feature that can give a sense of lightweight cellular concrete panel or conventional compared with the ceramic panel side commercialized high strength and due to the weight of the finished product, transportation, gold and ease, as well as non-combustible, heat-insulating, Have the advantage of having excellent sound insulation effect is very quick, accurate assembly and the product is cheap and the advantage of such a construction is possible.

Probable Assignee: KANG KYUNG SUK

Earliest Publication Date: 19960522



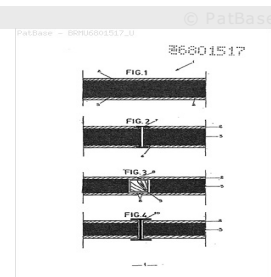
38) Family number: 197067 (BRMU6801517U)

PAINEL PRE-FABRICADO PARA VEDACAO DE EDIFICACOES PRE-FABRICATED PANEL FOR SEAL OF EDIFICACOES (MACHINE TRANSLATION)

Abstract: Source: BRMU6801517U RESUMO Patente de Modelo de Utilidade de "PAINE! PRE-FABRICADO PA- RA VEDACAO DE EDIFICACOES", de um pratico e util painel de- vedacBo, formado por placas de fibro-cimento, que proporcio nam um perfeito isolamento termoacustico, extrema resisten- cia ao fogo, sendo que, devido a sua leveza, e de facil co- locacao, nao necessitando de mao de obra especializada, em- sua montagem e acabamento, agilizando o processo construti- vo de edificacoes residenciais, comerciais ou industriais. Utility model patent SUMMARY of "PAINE! PRE-MANUFACTURED SEAL OF EDIFICACOES PA-RA ", a practical and useful-vedacBo Panel, made up of asbestos-cement boards, which provides service nam a perfect termoacustico isolation, extreme resisten- cia under fire, and, due to its light weight, and easy co-locacao, not requiring specialized labor in mao-mounting and finishing, streamlining the construction process vo de residencial edificacoes , commercial or industrial.

Probable Assignee: LUIS PHILIPPE DE BARROS SANTOR

Earliest Publication Date: 19881004



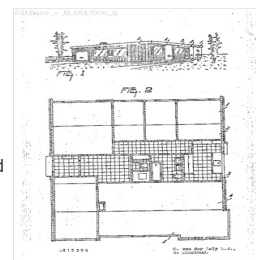
39) Family number: 398664 (GB1202708A)

IMPROVEMENTS IN OR RELATING TO PREFABRICATED BUILDINGS

Abstract: Source: GB1202708A 1,202,708. Building panels, prefabricated room units. C. VAN DER LELY N.V. 14 Sept., 1967 [3 Oct., 1966], No. 42047/67. Headings E1A and E1B. A prefabricated storey high panel comprises a foamed polystyrene layer 15 sandwiched between a concrete or light-weight concrete layer 13 and a concrete layer 14, the layers 14 and 15 extending beyond the layer 13 and metal section bars 14A, 15A secured to the layer 13 are positioned in the rebate so formed along the vertical sides of the panel. The two concrete layers have reinforcement which is interconnected by ties. The panels may have doors or windows. The inner face of the lightweight concrete layer 13 has a finish coat 20 applied thereto and the outer face of layers 14 is tiled. The panels 7 and 14 (Fig. 3) are used for making pre-fabricated room units, comprising framed floor and ceiling panels and dividing walls 8, 9, 10, the panels being welded to the frame members 38A and the reinforcement 29 thereof being bolted in slots 30 in ceiling panel 12. The upper edge of the panel may have an integral gutter section and a dam pipe may be mounted therein at a joint with an adjacent limb. The gap between adjacent units are closed by a pair of elastomeric strips.

Probable Assignee: LELY NV C VAN DER

Earliest Publication Date: 19680404



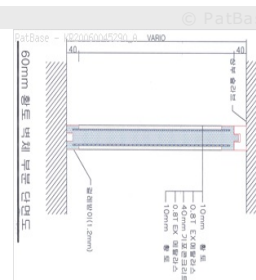
40) Family number: 33653629 (KR20060045290A)

A PROCESS FOR CONSTRUCTION OF WALL PANNEL

Abstract: Source: KR20060045290A The present invention building walls of prefabricated panel at a separate location on-site installation for making hayeoseo hameuroseo field is to simplify the process because the walls of the structure completely method to create a steel as Hureim to the airfoil, dither inside skeleton is connected after the metal coming cement. or ocher. Flight. Adhesive foaming agent. Such a mixture of important points to produce individual panels. The mixture is added to a non-combustible insulation of electrical flight which were also because the bubbles are generated thermal insulation is good, and the loess plate the walls are beneficial to health is characterized in that that can be used. Thus, wall panels produced completely individually corresponding to the position of the building is installed is also important because the fulfilling the strength of the building. on a wall, ceiling or pillar 260 by connecting and hameuroseo secure the annealing steel product to be a complete wall or partition that is characterized. Bycellular concrete ocher prefabricated wall panels

Probable Assignee: SHIN EUN SUNG

Earliest Publication Date: 20060517



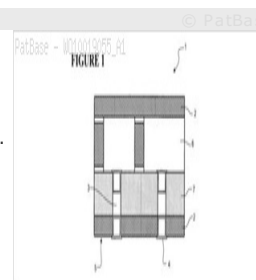
41) Family number: 44402231 (WO10019055A1)

A CONSTRUCTION ELEMENT

Abstract: This invention relates to a construction element comprising a body, at least one channel formed in the body, and an optical component or components within each of the channel(s), wherein each channel(s) extends from a surface of the body and terminates within the body substantially at or toward to a region of the body located distal of the surface.

Probable Assignee: BADGER TERRY CHRISTINE

Earliest Publication Date: 20100218



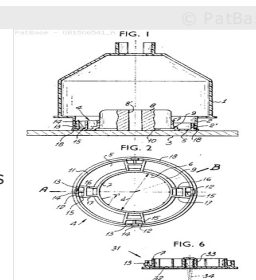
42) Family number: 30945226 (GB1506541A)

CONNECTIONS FOR SECURING BOXES TO WALLS OF FORMERS FOR CAST PREFABRICATED PANELS

Abstract: Source: GB1506541A For the purpose of using the same type of mounting box (1) with various types of form works, as well as magnets of the same diameter irrespective of the diameter of the box, the connection comprises a body (4) exhibiting a flat base wall (5) which, internally, is equipped with a hole (6) to receive a permanent magnet (8), or with a hole for the passage of a nail or screw, and externally exhibits a raised wall, of circular (11) or rectangular design corresponding to the shape and to the dimensions of the mouth (2) of the box and onto which said mouth engages by friction.

Probable Assignee: BASSANI SPA

Earliest Publication Date: 19760528



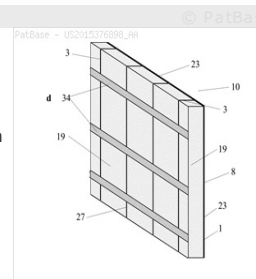
43) Family number: 61255389 (US2015376898A)

STIFFENED FRAME SUPPORTED PANEL

Abstract: Source: US2015376898A Frame supported panels with an increased load carrying capacity derived from inducing newly discovered conditions on panels made from weaker, lighter and thinner materials. The fixed/continuous/dropped condition can increase a panel's load capacity many times based on the panel's interaction with frame members. This enables foam panels, for example, to be used in structural applications. It also enables polyurethane foam with any cladding to provide a comprehensive, structural building panel that provides a finished exterior, continuous and cavity insulation, an air, moisture and vapor barrier and increased uplift resistance while eliminating condensation and thermal expansion/contraction.

Probable Assignee: KREIZINGER KENNETH ROBERT

Earliest Publication Date: 20151230



44) Family number: 23034005 (FR1348946A)

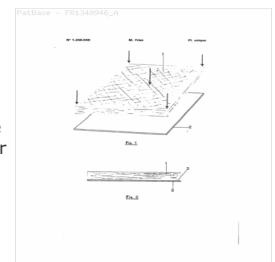
PROCEDE POUR LA REALISATION DE PANNEAUX PREFABRIQUES AINSI QUE LES PANNEAUX

**CONFORMES A CEUX OBTENUS
PROCESS FOR MAKING PREFABRICATED PANELS AND PANELS IN ACCORDANCE WITH THOSE
OBTAINED (MACHINE TRANSLATION)**

Abstract: Source: FR1348946A (Claim 1) 1. Procède pour la réalisation de panneaux prefabriques caracterise par ce qu'on realise un materiau isolant de fibres de bois et un agent de liaison de ces fibres, on presse l'agglomeré sous forme de plaques et on colle ces plaques sur un revêtement de surface constitue de matiere plasti- que, ce qui permet d'obtenir des panneaux de construction legers, resitants, isolants thermique et phonique;

Machine translation: (Claim 1) 1. Method for producing prefabricated panels characterized by what one realizes an insulating material of wood fibers and a bonding agent of such fibers, we press the agglomerated form of plates and these plates are glued on a surface coating is of plasticity that matter, which provides lightweight building panels, resistant, heat and sound insulation;

Earliest Publication Date: 19640110



45) Family number: 66157813 (AR103451A)

**PANEL ESTRUCTURAL DE BAMBU CON AISLACIONES PARA CERRAMIENTO PREFABRICADO
BAMBOO STRUCTURAL PANEL WITH INSULATION FOR PREFABRICATED ENCLOSURE (MACHINE
TRANSLATION)**

Abstract: Source: AR103451A Esta caracterizada por ser un batidor U, donde aloja de ambos lados el ensamble de las medias canas, que por su forma de arco, su colocacion se realiza en sucesivas hileras de estas, alternando la curvatura hacia adentro y hacia fuera, todas estas son fijadas de forma pasante y perpendicular, y tanto dentro del ensamble y entre las medias canas como en el encuentro del bastidor con el ensamble de canas, se encuentran las aislaciones que cumplen la funcion de rellenar, sellar y aislar, utilizando las que presenten mayor prestacion y rendimiento para la utilidad. Is characterized by being a beater u, where it houses of both sides the assembly of the half Gray, which by its form of arch, its placement is carried out in successive rows of these, alternating the curvature inward and outward, all these are fixed in an upright and perpendicular way, and both inside the assembly and between the half Gray as in the meeting of the frame with the assembly of Gray, you will find the insulations that fulfil the function of filling, sealing and isolating, using those that present greater rendering and performance for the utility.

Probable Assignee: FLO ALEJO

Earliest Publication Date: 20170510

