

Search history

Search [SP]: A seismic protective structure (100) for protecting a board partition (190). The protective structure (100) comprises a first stud (110), a second stud (120), and a wedge (140). The first stud (110) is mounted against a neighbouring wall (150) and the second stud is being positioned spaced from the first stud so that a protective board (130) is mounted on the first stud and the second stud. The structure also comprises a wedge (140) mounted and positioned against the second stud (120) such that the protective board (130) mounted on the first (110) and second stud (120) is pushed at least partly out of the plane of the board partition (190) by the wedge(140) when a given level of seismic stress is appearing. (Results 500)

Search fix* and mean* (Results 1000000)
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Search 17 and 18 (Results 47)
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Search IC=(E04B or E04H) (Results 703988)
20:

Search 19 and 20 (Results 15)
21:

1) Family number: 29372519 (US4859493A)

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Title: METHODS OF FORMING SYNTHETIC DIAMOND COATINGS ON PARTICLES USING MICROWAVES

Abstract: An apparatus and method for applying hard surface coatings to articles of manufacture such as particles, filaments, sphereoids, rollers, bearings, tools, and assemblies. In one form, coating of hard surface film, such as synthetic diamond, is effected while the objects fall freely through space in a coating chamber. In another form, coating is effected while particles are fluidized by gas containing molecules which are formed of matter to be deposited by gas or chemical vapor deposition employing high energy radiation, such as microwave energy and/or other form of radiation. In other forms, an ion beam or beams containing hot carbon ions is directed through a fluidized bed of particles to be coated or through a chamber in which small objects are made to continuously fall freely through space to coat same with carbon in the form of synthetic diamond. In another method, such small objects are caused to continuously tumble through a coating region of a coating chamber into which is directed gas and/or vapor containing molecules of a hydrocarbon, such as methane, and hydrogen, while microwave energy is directed through such region. Other forms of the invention include the selective deposition and coating of synthetic diamond onto substrates to form or protect microminiature electronic circuits and circuit elements such as transistors and interconnects and to protect bonds such as welds, or to form bonds between components joined together thereby. In yet another form, hard synthetic diamond coatings are deposited per se or in combination with other materials, by a hybrid process including chemical vapor deposition, ion deposition by beam(s), sputtering and the like.

Classifications:

International (IPC 8-9): A63B17/00 A63B47/00 A63B47/02
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C23C16/442 C23C26/00 C23C28/00 C30B25/10 E04H3/10
E21B10/46 F01L3/02 F01L3/04 F02F1/00 F02F1/24 F02F3/10

F02F5/00 F16C33/04 F16C33/10 F16C33/32 F16C33/34 F16C9/00 F16C9/04 F16J1/01 F16J9/26 G09B23/28 (Advanced/Invention); A63B17/00 A63B47/00 A63B47/02 A63B63/00 A63B69/40 A63B9/00 A63F9/00 H05K1/03 (Advanced/Non-invention); A63B47/00 A63B63/00 A63B69/12 A63B69/40 A63B9/00 A63C1/00 A63F9/02 A63G21/00 A63G31/00 B01J19/12 B01J8/24 B05B17/00 B23D61/00 B24D18/00 B28D1/02 C04B35/80 C23C16/00 C23C16/26 C23C16/44 C23C16/442 C23C26/00 C23C28/00 C30B25/10 E04H3/10 E21B10/46 F01L3/02 F02F1/00 F02F1/24 F02F3/10 F02F5/00 F16C33/04 F16C33/30 F16C9/00 F16J1/00 F16J9/26 (Core/Invention); A63F9/00 H05K1/03 (Core/Non-invention)

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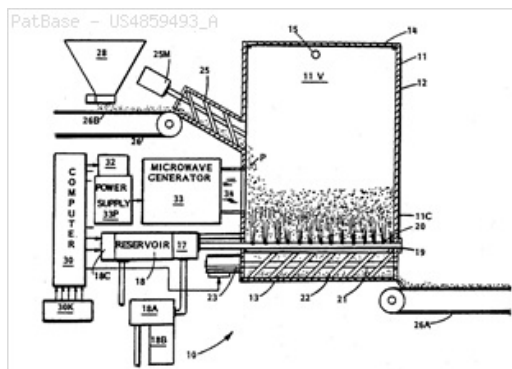
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US: 106/14.44 118/50.1 118/730 123/188.3 123/188AA 123/193.6 123/193P 124/16 148/525 148/537 228/199 228/262.2 252/29 273/394 280/11.12 280/11.18 280/608 280/610 313/141 313/311 313/315 313/345 313/355 384/463 384/491 384/492 384/565 384/907.1 384/913 407/45.1 411/157 411/424 411/427 411/544 411/902 411/914 423/446 427/213 427/242 427/249.14 427/249.8 427/314 427/318 427/45.1 427/523 427/554 427/562 427/565 427/566 427/575 427/577 427/585 427/596 428/216 428/336 428/361 428/368 428/375 428/403 428/408 428/457 428/688 428/698 428/699 428/700 428/704 428/902 472/117 472/128 472/136 472/137 482/35 74/457 74/458 74/459.5 74/467 74/468 92/223 D21/814 D21/818 D21/819 D21/826

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Priority:

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

2) Family number: 8541550 (US2002112443A)

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Title: METHOD OF CONNECTING PARTITION PANELS

Abstract: A freestanding portable partition panel system is provided for open office spaces and the like. Each panel includes a partition frame having vertical upright frame members positioned adjacent opposite side edges thereof, and multiple horizontal frame members attached to the upright frame members in a vertically spaced-apart relationship to rigidly interconnect the same. One or more horizontal rows of discrete slots are defined in each of the horizontal frame members. Cover panels are mounted on the partition frames that permit access to the slots, and off-module connectors with hooks are provided for engaging the slots for interconnecting furniture units in off-module positions. For example, the hooks of the connectors are engaged with selected slots to hold a furniture unit, such as a partition panel, perpendicular to a second partition panel in an off-module position on its face.

Classifications:

International (IPC 8-9): A47B21/00 A47B47/02 A47B5/00 A47B57/42 A47B83/00 A47B83/04 A47B87/00 A47B96/02 A47B96/04 A47B96/06 A47B97/00 A47F10/00 C08J11/04 C08J11/06 C08L95/00 E04B2/74 E04B2/76 E04B2/78 E04C2/00 E04C2/30 E04C2/52 E04F11/00 E04F15/024 E04H1/00 E04H1/06 E06B3/50 F24F13/08 (Advanced/Invention); A47B87/00 C08J11/04 C08J11/08 C08L95/00 E04C2/30 F24F13/08 (Advanced/Non-invention); A47B47/00 A47B57/00 A47B83/00 A47B87/00 A47B96/00 A47B96/06 A47B97/00 E04B2/74 E04C2/30 E04C2/52 E04F11/00 E06B3/32 F24F13/08 (Core/Invention)

International (IPC 1-7): A47B05/00 A47B1/00 A47B5/00 A47B83/00 A47B83/04 A47B97/00 A47F10/00 C08J11/04 C08J11/06 C08L17/00 C08L95/00 E04B2/74 E04C2/52 E04H1/06 **CPC:** C08L19/003 C08L95/00 E04B2/745 F24F13/08 F24F13/082 H02G3/288 E04B2002/7464 E04F15/024 A47B47/025 E04B2/7401 Y10S52/13 Y10T403/557 Y10T403/591 Y10T403/4662 E04B2/7424 A47B57/425 A47B96/04 A47B96/06 E04B2/7425 E04B2/7433 E04B2/7448 E04B2/7453 E04B2/7455 E04B2002/7461 E04B2002/7462 E04B2002/7466 E04B2002/747 E04B2002/7483 E04B2002/7487 E04B2002/749 E04F11/00 E06B3/5045 A47B21/06 A47B21/00 A47B83/001 A47B96/02 A47B96/022 A47B96/067 A47B2021/066 A47B2037/005 A47B2200/0069 A47B2200/01 E04B2/7422 E04B2002/7488

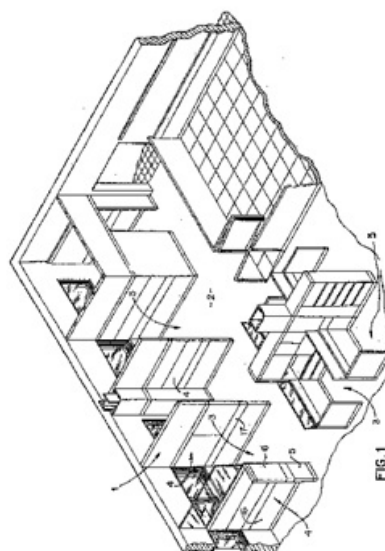
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PatBase - US2002112443_AA

Patent Application Publication Aug. 22, 2002 Sheet 1 of 29 US 2002/0112443 A1



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Priority:

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Probable Assignee: STEELCASE INC

Assignee(s): (std): SHIPMAN DAVID A ; SHAW BENJAMIN G ; SEIBER CHARLES A ; STEELCASE DEV CORP ; STEELCASE DEVELOPEMENT INC ; STEELCASE DEV INC ; STEELCASE INC ; NESTE WRIGHT ASPHALT PRODUCTS

Assignee(s): NESTE WRIGHT ASPHALT PRODUCTS CO ; NESTE WRIGHT ASPHALT PRODUCTS CO CHANNELVIEW ; LUCHETTI ROBERT J ; LADA CHRISTOPHER O ; KING JONATHAN J ; STEELCASE DEVELOPEMENT CORP ; STEELCASE DEVELOPEMENT INC ; STEELCASE DEVELOPEMENT INC A OF MICHIGAN CORP ; STEELCASE DEVELOPEMENT INC A CORP OF MICHIGAN ; TINGELY MICHAEL ; TANIS JACK A ; STEELCAS INC ; MINAMI DON S ; MCCLANAHAN DAVID D ; SEGAL LEON D ; MEAD KARL J ; SIEBERT PAUL B ; POPPE ROBERT P ; WACHOVIA BANK NATIONAL ASSOCIATION ; ACKERLY ANNE C ; ARKO ROBERT P ; CORCORRAN SEAN M ; DRAUDT GREGG R ; FLANIGAN THEODORE P ; ELDON JAMES B ; DRAUDT GREGG ROBERT ; HOBSON PHILLIP M ; GREER ERNEST P ; FRIEDMAN FRANK ; HOBSON PHILLIP MICHAEL ; ELDON JAMES B III

Inventor(s): (std): ACKERLY ANNE C ; ANNE C ACKERLY ; ARKO ROBERT P ; BATTEY JOYLENE M ; BENDER ELTON JAMES III ; BENJAMIN G SHAW ; CHARLES A SEIBER ; CHRISTOPHER O LADA ; CHURCHILL DAVID P ; CORCORRAN SEAN M ; DAMMERMAN KURT P ; DAMMERMANN KURT ; DAVID A SHIPMAN ; DAVID D MCCLANAHAN ; ELTON III JAMES B ; ELDON III JAMES BENDER ; ELTON JAMES B ; ELDON JAMES B III ; ELTON JAMES BENDER III ; ERNEST P GREER ; DRAUDT GREGG R ; DRAUDT GREGG ROBERT ; EICH THOMAS B ; FELDPAUSCH MICHAEL J ; FELDPAUSCH STEPHEN J ; FLANIGAN P ; FLANIGAN T P ; FLANIGAN THEODORE P ; FRANK FRIEDMAN ; FREIDMAN FRANK ; FRIEDMAN FRANK ; GOODMAN STEVEN F ; GORTSEMA STEVEN C ; GREER ERNEST P ; GREGG R DRAUDT ; GREGG ROBERT DRAUDT ; HOBSON PHILIP M ; HOBSON PHILLIP M ; HOBSON PHILLIP MICHAEL ; HOFMAN WILLIAM K ; HOUDA JAMES D ; IMRICH STEVEN ; JACK A TANIS ; JAMES B ELTON ; JAMES B ELTON III ; DEAN MCCLANAHAN DAVID ; JONATHAN J KING ; KING JONATHAN J ; KING JONATHAN K ; LADA CHRISTOPHER O ; LEON D SEGAL ; LINDALE MICHELLE L ; LUCHETTI ROBERT J ; LYON DOUGLAS G ; LYON LADENE S ; MACDONALD DOUGLAS B ; MCCLANAHAN DAVID D ; MCCLANAHAN DAVID DEAN ; MEAD KARL J ; MICHAEL TINGLEY ; MILES MICHAEL E ; MINAMI DON S ; MUSCULUS JEFFREY A ; KARL J MEAD ; PAUL B SIEBERT ; PHILLIP MICHAEL HOBSON ; POPPE ROBERT P ; ROBERT J LUCHETTI ; SEGAL LEON D ; SEIBER CHARLES A ; SEIBER CHARLES ANTHONY ; SELBERT GERHARD DR ; SHAW BENJAMIN G ; SHIPMAN DAVID A ; SHIPMAN DAVID A ; SIEBER CHARLES A ; SIEBERT PAUL B ;

STACHOWIAK ANTHONY A ; SWAW BENJAMIN G ; ROBERT P ARKO ; ROBERT P POPPE ; SCHIPMAN DAVID A ; SEAN M CORCORRAN ; TANIS JACK A ; TINGELY MICHAEL ; TINGLEY MICHAEL

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TINGLEY ; THEODORE P FLANIGAN ; SEAN MCORCORRAN ; ROBERT PARKO ; T P FLANIGAN ; TANIS J A DRAUDT G R ; TANIS JA DRAUDT GR ; Shipman ; SHIPMAN D A ; SHIPMAN DA ; Robert J. ; ROBERT DRAUDT GREGG ; PAUL BSIEBER ; KARL JMEAD ; PAUL B SIEBER ; Luchetti ; LUCHETTI R J ; LUCHETTI RJ ; LEON DSEGAL ; JONATHAN JKING ; DR GERHARD SELBERT ; JAMES BENDER ELTON III ; JAMES III BENDER ELDON ; III JAMES B ; Greer ; GREER E P ; GREER EP ; FRANK FRIED MAN ; ELDON ; Ernest P. ; etc. ; DAVID DEAN MACCLANAHAN ; DAVID DEAN MCCLANAHAN ; David A. ; DAVID A SCHIPMAN ; DAVID A SHIPAMAN ; CHARLES ASEIBER ; ACKERLY A C ; ACKERLY AC ; BENJAMIN G SWAW

Agent(s):

FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; GRIFFITH HACK; MCCARTHY TETRAULT LLP; BORDEN LADNER GERVAIS LLP; JOHANSSON; IGNACIO ESCOBAR URIBE; LUIS PATINO LEYVA; PRICE HENEVELD COOPER DEWITT AND LITTON

Designated states:

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

3) Family number: 32865359 (US2006086043A)

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Title: HIGH STRENGTH MONOLITHIC CARBON FOAM

Abstract: A carbon foam article useful for, inter alia, composite tooling or other high temperature applications, which includes a carbon foam having a ratio of compressive strength to density of at least about 7000 psi/g/cc.

Classifications:

International (ipc 8-9): C09C1/00 B29C70/06 B32B15/02 B32B15/04 B32B18/00 B32B23/04 B32B27/00 B32B3/00 B32B3/06 B32B3/10 B32B3/24 B32B3/26 B32B5/18 B32B5/20 B32B5/32 B32B7/12 B32B9/00 B32B9/04 C01B31/00 C01B31/02 C01B31/04 C01B31/06 C04B35/52 C04B35/524 C04B38/00 C04B41/52 C04B41/83 C04B41/89 C04B41/90 C08G65/38 C08K3/04 C09K21/02 C10L5/00 E04B1/80 E04B1/94 E04B2/00 E04B2/02 E04C1/00 E04H9/00 H05B6/22 (Advanced/Invention); C01B31/00 C01B31/02 C04B35/536 (Advanced/Non-invention); B29C70/06 B32B15/02 B32B15/04 B32B23/00 B32B27/00 B32B3/00 B32B3/06 B32B3/10 B32B3/24 B32B3/26 B32B5/18 B32B5/20 B32B7/12 B32B9/00 B32B9/04 C01B31/00 C04B35/52 C04B38/00 C04B41/89 C08G65/00 C08K3/00 C10L5/00 E04B1/94 E04B2/00 E04B2/02 E04C1/00 E04H9/00 H05B6/02 (Core/Invention)

International (ipc 1-7): B32B9/00 C01B31/00 C08J9/04

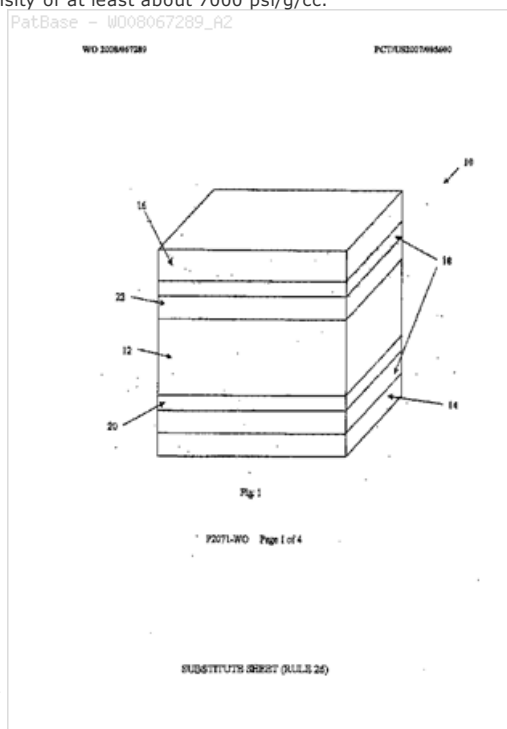
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European: B32B13/04 B32B15/08 B32B27/18 B32B29/00 B32B5/18 B32B9/00 B63B3/48 B63B3/68 C01B31/00 C04B35/52 C04B35/524 C04B38/00C10 C04B41/00V C04B41/48F C04B41/50T34 C04B41/52 C04B41/83 C04B41/85 C04B41/90 C09K3/10 E04B1/80 E04B1/94B1 E04C2/292 E04C2/296 F25D23/06C M04B111/00P2 M04B111/28 M04B111/52 M04B201/50 M04B235/48 M04B235/652 M04B235/658M6 M04B235/77 M04B235/96 M04B235/96F M04B235/96F2 M09K200/02 R25D201/126

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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Assignee(s): GRAFTECH INT HOLDINGS INC PARMA ; GRAFTECH INTERNATIONAL HOLDINGS INC ; UCAR CARBON CO ; ADVANCED ENERGY TECHNOLOGY INC ; GRAFTECH ADVANCED GRAPHITE MATERIALS LLC ; GRAFTECH INT ; JPMORGAN CHASE BANK NA ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; GT ACQUISITION HOLDINGS LLC

Inventor(s): (std): GRIFFIN YEVEGIY P ; GRIFFIN YEVGENIY ; GRIFFIN YEVGENIY P ; GRIFFIN YEVGENIY PAVLOVICH ; KASCHAK DAVID ; KASCHAK DAVID M ; DAVID KASCHAK ; LEWIS IRWIN C ; MILLER DOUGLAS ; MILLER DOUGLAS J ; MILLER DOUGLAS J LEWIS IRWIN C ; MERCURI ROBERT A ; PAVLOVICH GRIFFIN YEVGENIY ; SEGGER MARK ; SHAO RICHARD L ; SHAO RICHARD LIICHANG ; MARK SEGGER ; ROBERT A MERCURI ; IRWIN C LEWIS ; DOUGLAS J MILLER ; YEVGENIY GRIFFIN

Inventor(s): SHAO RICHARD ; YEVGENIY P GRIFFIN ; RICHARD L SHAO ; MERCURI ROBERT A SEVEN HILLS ; MILLER DOUGLAS J LEWIS IRWIN C MERCURI ROBERT A ; MILLER DOUGLAS J NORTH OLMSTEAD ; LEWIS IRWIN C STRONGSVILLE ; MERCURI ROBERT ; GRIFFIN YEVEGIY ; LEWIS IRWIN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY; LEDERER AND KELLER PATENTANWALTE PARTNERSCHAFT MBB; BRAND THOMAS LOUIS; BRAND THOMAS LOUIS ET AL; PONTI ADELAIDA; WADDEY AND PATTERSON; WADDEY AND PATTERSON PC; GRAFTECH INT HOLDINGS INC; JAMES R; CARTIGLIA JAMES R

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

4) Family number: 33175076 (US2006168906A)

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Title: NON-COMBUSTIBLE REINFORCED CEMENTITIOUS LIGHWEIGHT PANELS AND METAL FRAME SYSTEM FOR A FIRE WALL AND OTHER FIRE RESISTIVE ASSEMBLIES

Abstract: A fire resistive assembly including metal framing members, for example, C-joists, U-joists, open web joists, HAMBRO or other metal frame systems that support a reinforced, lightweight, dimensionally stable SCP panel. The assembly is non-combustible, water durable, mold and rot resistant, termite resistant and is capable of resisting shear loads equal to or exceeding shear loads provided by plywood or oriented strand board panels. The panels employ one or more layers of a continuous phase resulting from the curing of an aqueous mixture of inorganic binder, for example, calcium sulfate alpha hemihydrate, hydraulic cement, an active pozzolan and lime. The continuous phase is reinforced with glass fibers and contains lightweight filler particles, for example, ceramic microspheres.

Classifications:

International (IPC 8-9): B32B18/00 D04H3/00 B32B13/02 B32B3/02 B32B5/16 C04B14/02 C04B14/04 C04B14/18 C04B14/24 C04B14/42 C04B18/08 C04B20/00 C04B22/06 C04B28/14 C04B28/22 D04H13/00 E02D29/12 E04B1/00 E04B1/24 E04B1/35 E04B1/94 E04B2/28 E04B2/30 E04B2/58 E04B2/74 E04B2/76 E04B5/10 E04C2/02 E04C2/26 E04C2/34 E04G21/00 E04G21/14 E04H6/00 E04H6/02 E04H6/08 (Advanced/Invention); C04B11/28 (Advanced/Non-invention); B32B13/00 B32B18/00 B32B3/02 B32B5/16 C04B14/02 C04B14/38 C04B18/04 C04B20/00 C04B22/00 C04B28/00 D04H13/00 E04B1/00 E04B1/35 E04B1/94 E04B2/74 E04C2/02 (Core/Invention)

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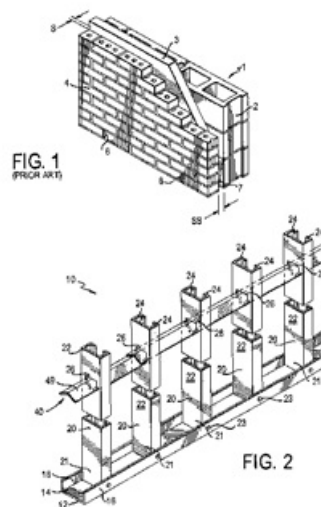
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG 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

5) Family number: 33287297 (US2006191232A)

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Title: COMPOSITE PRE-FORMED BUILDING PANELS

Abstract: A composite building panel including a central body, substantially parallelepipedic in shape, comprised of an expanded polymer matrix, having opposite faces, a first surface and an opposing second surface; and one or more reinforcing members longitudinally extending across the central body between said opposite faces, having a first side portion embedded in the expanded polymer matrix, and a second side portion extending away from the first surface of the central body and one or more expansion holes located in the reinforcing member between the first side portion of the reinforcing member and the first surface of the central body. The central body includes a polymer matrix that expands through the expansion holes; and a space defined by the first surface of the central body and the second side portion of the reinforcing members is adapted for accommodating utilities through the space.

Classifications:

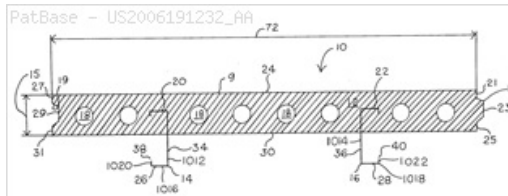
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Probable Assignee: SYNTHEON INC

Assignee(s): (std): DIETRICH IND INC ; GUEVARA TRICIA ; MADISH JOHN K ; METROMONT CORP ; HILEMAN BLAIN ; HILEMAN TOBIAS B ; MATZ GARY F ; KELLEY MICHAEL R ; HUGHES RICK ; LADELY TRICIA G ; SALAZAR LORENZO L ; RALPH GREGORY S ; NOVA CHEMICALS INC ; WILLIAMS MICHAEL T ; MOORE ROGER ; MOORE MARY MARGARET ; MOORE MARY M ; VAN BUSKIRK KRISTEN ; NOVA CHEM INC ; ADEWALE KOLAPO ; BOWMAN JAY ; BOWMAN JAY J ; BUSKIRK KRISTEN V ; COWAN DAVID A ; VANBUSKIRK KRISTEN ; SWEAT ALAN ; SYNTHEON INC ; TANG JIANSHENG ; WOOLFSMITH DANIEL ; MOORE LEGAL REPRESENTATIVE MARY MARGARET ; LADELY TRICIA GUEVARA ; LADELY GUEVARA TRICIA

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Inventor(s): RICHARD H PENNELL ; MOORE ROGER DECEASED ; LADELY TRICIA G HILEMAN BLAIN VAN BUSKIRK... ; KRISTEN VANBUSKIRK ; KRISTEN ; JIANSHENG TANG ; JIANSHENG ; HUGHES ; HILEMAN ; DANIEL WOOLFSMITH ; DANIEL ; BLAIN ; WILLIAMS MICHAEL T BEAVER FALLS ; WOOLFSMITH ; WILLIAMS MICHAEL ; VAN BUSKIRK KRISTEN ALIQUIPPA ; TRICIA GUEVARA LADELY ; VAN BUSKIRK ; TRICIA G ; TRICIA G LADELY ; TOBIAS BLAIN HILEMAN ; TANG JIAN SHENG AND ; SALAZAR LORENZO L GIBSONIA ; TANG ; SALAZAR LORENZO ; PENNELL RICHARD HJR ; RALPH GREGORY ; RALPH GREGORY S WEXFORD ; RICHARD H ; RICK ; PENNELL RICHARD ; MOORE MARY ; MOORE ROGER COLUMBIA ; MOORE LEGAL REPRESENTATIVE MARY M ; MICHAEL R KELLEY ; MICHAEL T WILLIAMS ; MADISH JOHN K NEGLEY ; MATZ GARY ; MADISH JOHN AND ; LORENZO L SALAZAR ; LADELY TRICIA G HILEMAN BLAIN VAN BUSKIRK KRISTEN HUGHES RICK TANG JIANSHENG WOOLFSMITH DANIEL ; KRISTEN VAN BUSKIRK ; LADELY ; LADELY (GUEVARA) TRICIA ; KELLEY MICHAEL R BUTLER ; HUGHES RICK BEAVER ; JAY J BOWMAN ; JOHN K MADISH ; JOHN MADISH ; HILEMAN TOBIAS BLAIN NEW CASTLE ; HILEMAN TOBIAS ; GUEVARA TRICIA KOPPEL ; GUEVARA TRICIA WILLIAMS MICHAEL T HUGHES RICK KELLEY MICHAEL R MADISH JOHN K VAN BUSKIRK KRISTEN ; GUEVARA TRICA KOPPEL ; DAVID A COWAN ; GARY F MATZ ; GREGORY S RALPH ; COWAN DAVID A CRANBERRY TOWNSHIP ; BOWMAN JAY J FLORENCE ; BUSKIRK KRISTEN ; ADEWALE KOLAPO MOON TOWNSHIP ; BLAIN HILEMAN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GRIFFITH HACK; TROTT TREVOR; NORTON ROSE CANADA SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; OGILVY RENAULT LLP SENCRL SRL; CHISHOLM P SCOTT; CLARKE; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; HOFFMANN EITTE; WATSON ROBERT JAMES; WATSON ROBERT JAMES ET AL; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER; MILTENYI PETER; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; WEBB LAW FIRM PC; GARY F MATZ NOVA CHEMICALS INC; NOVA CHEMICALS INC; NOVA CHEMICALS INC KAREN S LOCKHART; GARY F; WEBB LAW FIRM; MATZ GARY F

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

6) Family number: 40995698 (US2007294974A)

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Title: NON-COMBUSTIBLE REINFORCED CEMENTITIOUS LIGHTWEIGHT PANELS AND METAL FRAME SYSTEM FOR BUILDING FOUNDATIONS

Abstract: A foundation system includes metal framing members that support a reinforced, lightweight, dimensionally stable cementitious panel. The foundation system is non-combustible, water durable, mold and rot resistant, and termite resistant. The panels employ one or more layers of a continuous phase resulting from the curing of an aqueous mixture of inorganic binder, for example, calcium sulfate alpha hemihydrate, hydraulic cement, an active pozzolan and lime. The continuous phase is reinforced with glass fibers and contains lightweight filler particles, for example, ceramic microspheres.

Classifications:

International (IPC 8-9): B32B1/04 E02D27/00 E02D27/01
E02D27/32 E02D29/00 E04B1/00 E04B1/21 E04B1/30 E04B2/30
E04C2/22 E04C2/34 E04C3/00 E04G21/02 (Advanced/Invention);
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E04C2/34 (Core/Invention)

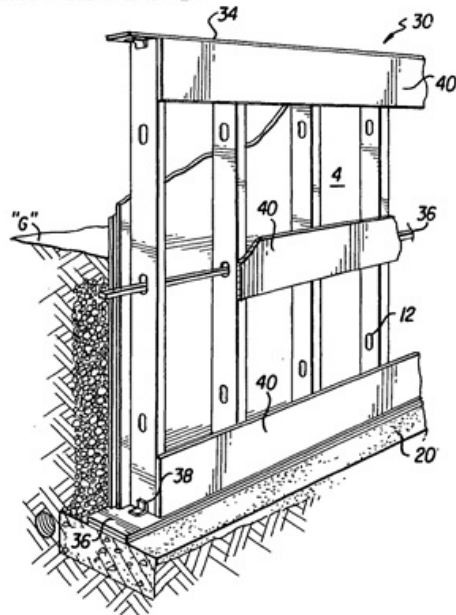
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E02D27/02 E04B2001/2448 E04B2001/2457 E04B2001/2472
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European: B28B5/02C2 B28C5/14F2 B28C5/36B B28C5/40C
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US: 106/735 428/192 428/70 428/70S 52/169.1 52/169.100P 52/294
52/294S 52/309.13 52/309.17 52/309.170S 52/481.1 52/481.100P
52/483.1 52/653.1 52/705 52/705S 52/742.12 52/742.120S
52/745.13

PatBase - US2007294974_AA



Family:

Publication number	Publication date	Application number	Application date
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US8061108 BB	20111122	US20100948420	20101117
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WO08002511 A3	20080403	WO2007US14674	20070625

Priority:

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WO2007US14674 20070625 US20100948420 20101117

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ULLETT

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AND MOSHER LLP; NOVAK DRUCE AND QUIGG LLP; DAVID F; DAVID J; PHILIP T; JANCI DAVID F ET
AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY
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TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 41574757 (US2008134589A)

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Title: SYSTEM FOR MODULAR BUILDING CONSTRUCTION

Abstract: Construction systems for erecting building structures comprise a plurality of prefabricated interconnectable modular building units, each unit not meeting at least one of the ISO certification criteria for transport of cargo but each unit comprising a frame shaped as a rectangular parallelepiped and comprised of framing members and a plurality of nodes, each node situated at a corner of said frame for selective interconnection with other units, the nodes and the exterior dimensions of the frame conforming to ISO shipping standards such that each unit is transportable using the ISO intermodal transportation system, and such that when the units are aggregated horizontally and vertically and adjacent units are interconnected, a building structure comprising at least one habitable space is formed. The modular units are assembled in a factory remote from the job site, and are there constructed to a semi-finished state, including installation of one or more of interior fit-out systems and finishes, exterior envelope systems, plumbing systems, electrical systems, environmental systems, and fire protection systems, following which the semi-finished modular units are transported from the factory to the job site, where they are craned into place and secured to form the structure being erected, a plurality of adjacent pairs of semi-finished modular units also being "stitched" together, and the semi-finished modular units are thereafter constructed to a finished state.

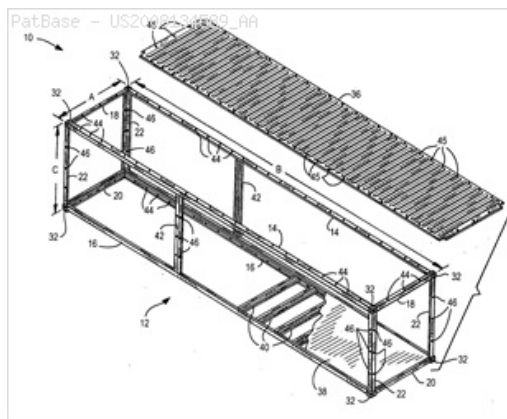
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International (IPC 8-9): E04B1/00 E04B1/343 E04B1/348 E04B1/38 E04C2/30 E04H1/00 E04H1/02 E04H1/04 E04H14/00 E04H3/00 E04H5/00 E04H6/00 E04H9/00 F24D3/14 (Advanced/Invention); E04C2/30 E04H1/00 E04H1/04 (Core/Invention)

CPC: E04B1/34331 E04B1/34384 E04B1/3483 E04B2001/34892 E04H1/04 F24D3/145 Y02B30/22 E04B1/348 E04B1/34336 E04H1/005 E04B1/0015 E04B1/003 E04B1/34807 E04B2001/3583 E04F10/005 E04F10/08 E04F10/10 E04B2103/06 E04H2001/1283 Y02P80/156

European: E04B1/00D E04B1/348C3 E04H1/04 F24D3/14D P04B1/348S Y02B30/22

US: 1/1 52/741.1 52/741.100S 52/745.02 52/745.020S 52/745.13 52/745.130S 52/745.2 52/745.21 52/745.210S 52/79.1 52/79.100P 52/79.5 52/79.500P 52/79.9 52/79.900P 52/79.900S 52/799



Family:

Publication number	Publication date	Application number	Application date
US2008134589 AA	20080612	US20070893639	20070817
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WO08027234 A3	20080424	WO2007US18379	20070820

Priority:

US20060840419P 20060826	US20060843247P 20060908	US20060861407P 20061128
US20070900311P 20070208	US20070902081P 20070215	US20070893639 20070817
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Probable Assignee: GLOBAL BUILDING MODULES INC

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Agent(s): GOTTLIEB RACKMAN AND REISMAN PC; KASHMAN DAVID S ET AL

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

8) Family number: 42380056 (US2010065108A)

Title: METHOD AND APPARATUS FOR FORMING AND MOUNTING A PHOTOVOLTAIC ARRAY

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

Classifications:

International (IPC 8-9): E04B1/00 E04D1/12 E04D13/18 E04G21/00 E04H14/00 F16B1/00 F16B17/00 F16B5/00 F16B5/02 F16B5/10 F16B5/12 F16D1/12 F16L3/04 F16L3/10 F16M13/00 F16M13/02 F24J2/46 F24J2/52 H01L H01L23/12 H01L31/02 H01L31/0203 H01L31/04 H01L31/042 H01L31/046 H01L31/048 H01L31/05 H01L31/18 H01M10/44 H01R13/73 H02G3/32 H02S20/00 H02S20/10 H02S20/23 H02S20/24 H02S20/30 H02S30/10 H02S40/30 (Advanced/Invention); F24J2/46 (Advanced/Non-invention); E04G21/00 F24J2/00 H01L31/042 H01L31/048

H01M10/42 (Core/Invention);
H01L (Subclass/Invention)

International (IPC 1-7): H01M10/44

CPC: F16B7/0433 H02S20/30 F16B5/10 H01L31/0482 H01L31/0484
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H01L31/042 H01L31/0422 F16L3/04 F16L3/1058 H02S20/20
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Y02E10/47 H02S20/00 Y10T29/49826 Y10T403/32975 Y10T403/38
F24J2002/522 F24S2025/6004 F24S2025/6008 F24S2025/804
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F24J2/5239 F24J2/5245 F24J2/5262 F24J2/5264 H02S30/10
F24S2025/807 F24J2/5247 F24S25/33 F24S25/613 F24S25/634
F24S2025/801 F24J2002/5292 F24S25/617 F24S2025/02

European: F24J2/52A20B F24J2/52A20B4 F24J2/52A20C2
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52/555 52/582.2 52/586.2 52/745.21 52/745.210S 52/747.1 D8/349
Locarno class: 08/08

PatBase - US2010065108_AA

Patent Application Publication Mar. 18, 2010 Sheet 1 of 30 US 2010/065108 A1

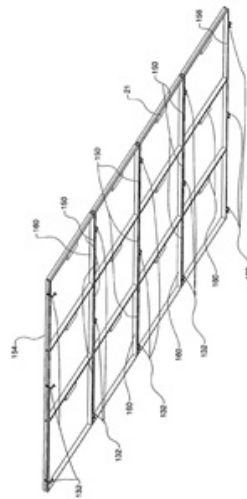


FIG. 10

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: SOLARCITY CORP

Assignee(s): (std): ALCHLEY BRIAN ; ATCHLEY BRIAN ; CHRISTINA C MANANSALA ; COLEMAN NATHANIEL TAYLOR ;

GRUBER PETER EDWARD ; HAENLEIN HANS CHRISTOPH ; MANANSALA CHRISTINA C ; JOHN R WEST ; HANS CHRISTOPH HAENLEIN ; HAENLEIN HANS CHRISTOPHER ; HAENLEIN HANS CRISTOPH ; JOHANSEN EMIL ; HUDSON TYRUS HAWKES ; HUDSON TYRUS ; WEST JOHN R ; ZEP SOLAR INC ; ZAP SOLAR INC ; ZEP SOLAR LLC ; SOLARCITY CORP ; MANSALA CHRISTAIN C ; WEST JOHN RAYMOND ; WEST BRIAN ; YOUNANS DAVID ; ZEP SOAR INC ; WEST JACK RAYMOND ; MANANSALA CHRISTINA C ; HAENLEIN HANS CHRISTOPH ; HIGH SUN TECHNOLOGY INC

Assignee(s):

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

Inventor(s): WEST JOHN ; JOHN RWEST ; MANANSALA CHRISTINA

Agent(s): CHRISTIANSEN JOHN; JOHN CHRISTIANSEN; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; MARKS AND CLERK; GOWLING WLG CANADA LLP; CHAILLOT GENEVIEVE; HOWSON RICHARD GB; HOWSON RICHARD GILES BENTHAM; INABA YOSHIYUKI; LARRY D JOHNSON; VIERRA MAGEN MARCUS AND DENIRO LLP; LARRY D; KILPATRICK TOWNSEND AND STOCKON LLP; KILPATRICK TOWNSEND AND STOCKTON LLP; KILPATRICK TOSENSEND AND STOCKTON LLP; STERNE KESSLER GOLDSTEIN AND FOX PLLC; JOHNSON LARRY D; MARCUS BRIAN I

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

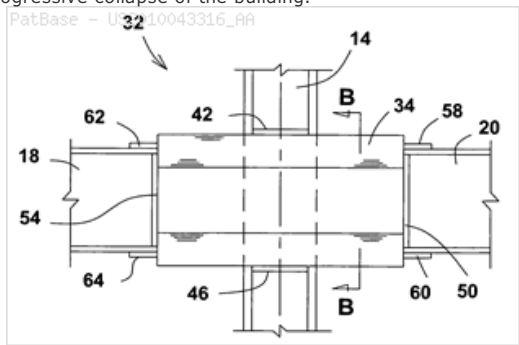
9) Family number: 44431938 (US2010043316A) © PatBase

Title: STEEL-FRAME BUILDING AND METHOD OF MAKING

Abstract: An improved building structure and method for making steel frame buildings includes a beam-to-column or beams-to-column joint or connection which is most preferably shop fabricated (as opposed to on-site fabrication) and which offers a considerable savings in both steel requirements (i.e., material savings) and labor to make the joint connection. Also, because material utilization is improved in the connection, the new structure is more resistant to damage by seismic events (i.e., earthquake), by severe weather, and to damage from blast effects (i.e., terrorist attack or accident), than was the prior technology. The improved building structure also mitigates against progressive collapse of the building.

Classifications:

International (IPC 8-9): E04B1/00 E04B1/18 E04B1/19 E04B1/24 E04B1/38 E04B1/98 E04C2/38 E04C3/04 E04C3/32 E04G21/00 E04G23/00 E04H9/02 (Advanced/Invention); E04B1/19 E04B1/24 E04B1/38 E04B1/98 E04C3/04 E04C3/30 E04H9/02 (Core/Invention)
CPC: E04B1/2403 E04B2001/2496 E04H9/02 E04H9/14 E04B2001/2442 E04B1/24 E04B2001/2415 E04B2001/2445 E04B2001/2448
European: E04B1/24 E04B1/24B E04H9/02 E04H9/14 P04B1/24B21 P04B1/24B22 P04B1/24B4 P04B1/24B40 P04B1/24W
US: 52/167.1 52/167.100P 52/650.1 52/650.100P 52/653.1 52/653.100P 52/655.1 52/655.100S 52/656.9 52/657 52/712 52/712S 52/741.15 52/745.15 52/745.17 52/745.170S 52/745.19 52/745.190S 52/745.2 52/745.200S 52/745.21 52/745.210S 52/831 52/831P 52/838 52/838S 52/846 52/846P 52/848 52/848S



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Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: MITEK HOLDINGS INC

Assignee(s): (std): HOUGHTON AND MYERS LLC ; HOUGHTON DAVID ; HOUGHTON DAVID L ; KARNES JESSE ; MITEK HOLDINGS INC ; KARNES JESSE E ; GALLART ENRIQUE A

Assignee(s): MITEK HOLDINGS INC1704-300 DELAWARE AVENUEWILMINGTONDE19801-1612US ; MITEK HOLDINGS INC1704-300 DELAWARE AVENUEWILMINGTONDE19801US ; MITEK HOLDINGS INC WILMINGTON

Inventor(s): (std): GALLART ENRIQUE ; HOUGHTON DAVID L ; KARNES JESSE ; KARNES JESSE E ; HOUGHTON DAVID ; GALLART ENRIQUE A

Inventor(s): KARNES JESSE EUS ; HOUGHTON DAVID L KARNES JESSE E GALLART ENRIQUE A ; HOUGHTON DAVID LUS ; JESSE E KARNES ; JESSE KARNES ; GALLART ENRIQUE AUS ; DAVID HOUGHTON ; ENRIQUE GALLART

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; VILLASECA; SMAGGASGALE GILLIAN HELEN; TUGBA DERYA YILMAZ; SENNIGER POWERS LLP; TERRY L MILLER LAW OFFICE OF TERRY L MILLER; TERRY L MILLER; JAMES KURT F ET AL

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

10) Family number: 44998954 (US2011215213A)

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

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

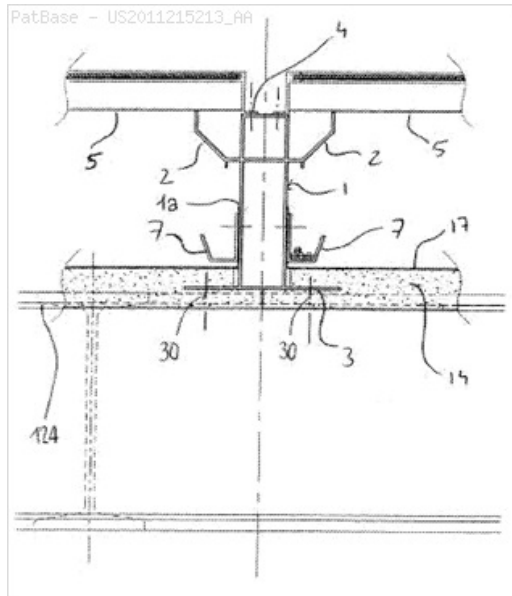
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International (IPC 8-9): A01G9/14 A01G9/24 A47B97/00 E04B1/346 E04D13/18 E04D3/40 E04F13/072 F24J2/52 H01L23/12 H01L31/048 H02S20/23 (Advanced/Invention); E04D13/18 F24J2/00 H01L31/048 (Core/Invention)

CPC: Y02B10/12 Y02B10/20 Y02E10/47 Y02E10/44 H01L31/0521 Y02E10/50 H02S20/22 H02S20/26 E04D3/40 E04F13/072 H02S20/23 B25J9/00 Y02A30/62 Y02A40/266 A01G9/243 Y02P60/124 E04B7/163 F24S25/20 F24S25/35 F24S40/44 F24S2025/021 F24S2025/801 F24S20/66 F24S20/67 F24S25/12 F24S25/13 F24S25/636 F24S40/20 F24S2025/013 F24S2025/804 F24S2025/807 F24S20/70 F24S30/422 F24S2030/133 F24S2030/134 F24S2030/145 F24S25/634 F24S80/60 F24S2020/11 F24S2020/17 F24S2025/014 F24S2201/00 F24S25/61 F24S25/00

European: F24J2/46B18B F24J2/52A4B4 F24J2/52A4E H01L31/048B R24J2/52A4P4 R24J2/52P24 Y02B10/12 Y02B10/20 Y02E10/47 Y02E10/50

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



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20150970431	20151215				

Probable Assignee: KBFX LLC

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

Assignee(s): ERIC CHAMEAU ; ALAIN POIVET

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

Inventor(s): ERIC CHAMEAU ; ALAIN POIVET

Agent(s): CASALONGA AXEL; NOVAGRAAF TECHNOLOGIES; NOVAGRAAF IP; SHEPPARD MULLIN RICHTER AND HAMPTON LLP; TAN CARINA M

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

11) Family number: 47634237 (US2010287861A)

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Title: EXTERIOR WALL ASSEMBLY INCLUDING MOISTURE TRANSPORTATION FEATURE

Abstract: An exterior wall assembly includes a wall frame supporting an interior wall layer and an exterior wall layer opposite the interior wall layer, a flexible sheet disposed within the exterior wall assembly, and a seal attached to the flexible sheet and configured to prevent ingress of water toward the wall frame. The flexible sheet is configured to transport moisture from between the interior wall layer and the exterior wall layer to a location outside of the exterior wall assembly.

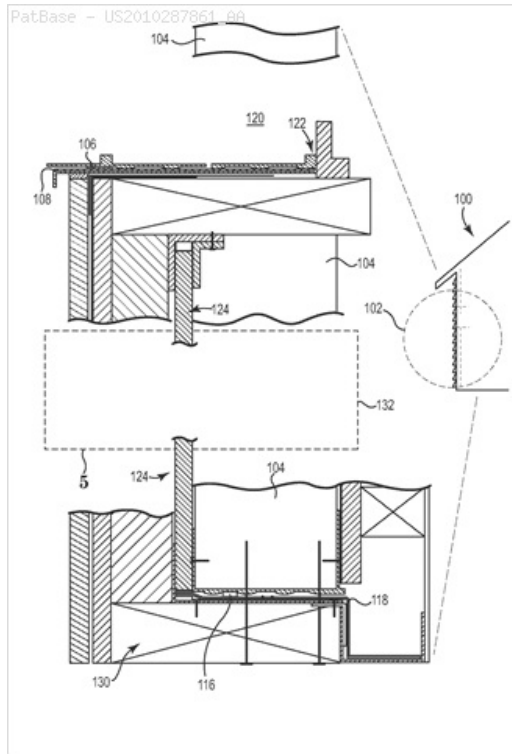
Classifications:

International (IPC 8-9): E02D19/00 E02D31/02 E03B7/14 E04B1/38 E04B1/62 E04B1/64 E04B1/66 E04B1/70 E04B2/00 E04B2/70 E06B7/14 F16B25/10 F24F7/00 (Advanced/Invention)

CPC: F16B15/0046 F16B25/0031 F16B25/0063 F16B25/103 F16B37/125 E02D19/00 E04B1/66 E04B1/665 E04B1/625 E04B1/70 E04B2/707

European: E04B1/70 E04B2/70C1 F16B25/00C4 F16B25/00G1C1 F16B25/10B F16B37/12B2 R16B15/00C2D

US: 1/1 411/337 411/337S 411/366.1 411/366.100P 52/169.14 52/169.5 52/169.7 52/209 52/302.1 52/302.100P 52/302.3 52/302.6 52/408 52/408S 52/506.01 52/506.010S 52/741.3 52/741.300S 52/741.4 52/741.400P



Family:

Publication number	Publication date	Application number	Application date
CA2704407 AA	20101118	CA20102704407	20100517
CA2704588 AA	20101118	CA20102704588	20100517
CA2704590 AA	20101118	CA20102704590	20100517
US2010287861 AA	20101118	US20090467902	20090518
US2010287863 AA	20101118	US20090612380	20091104
US2011250035 AA	20111013	US20100900445	20101007
US2012079789 AA	20120405	US20110324635	20111213
US2012272590 AA	20121101	US20120544792	20120709
US2014360109 AA	20141211	US20140469183	20140826
US8001736 BB	20110823	US20090467902	20090518
US8316597 BB	20121127	US20110324635	20111213
US8813443 BB	20140826	US20120544792	20120709
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Priority:

US20090467902 20090518	US20090467912 20090518	US20090249497P 20091007
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Probable Assignee: MOISTURE MANAGEMENT LLC

Assignee(s): (std): GOLDBERG LOUISE FRANKLIN ; MOISTURE MAN LLC ; STENDER MARK LARRY

Assignee(s): MOISTURE MANAGEMENT LLC

Inventor(s): (std): GOLDBERG LOUISE FRANKLIN ; STENDER MARK LARRY

Agent(s): DICKE BILLIG AND CZAJA; DICKE BILLIG AND CZAJA PLLC

12) Family number: 49120127 (US2011146201A)

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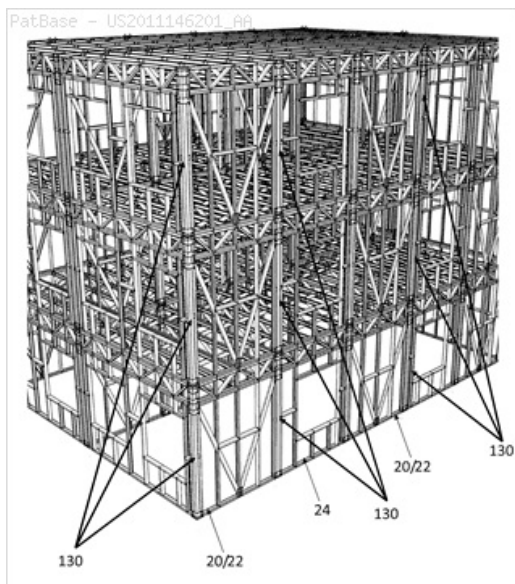
Title: PANELIZED STRUCTURAL SYSTEM FOR BUILDING CONSTRUCTION

Abstract: Structural columns are fastened to one another vertically. Wall panels may be fastened to the structural columns so that load is transferred through the structural columns rather than vertically between the wall panels.

Classifications:

International (IPC 8-9): E04B E04B1/00 E04B1/02 E04B1/08 E04B1/18 E04B1/19 E04B1/21 E04B1/24 E04B1/30 E04B1/38 E04B1/58 E04B2/00 E04B2/56 E04B2/72 E04B2/74 E04C2/38 E04C3/02 E04C3/04 E04C3/08 E04C3/30 E04C3/32 E04H12/00 G06F G06F17/50 G06G7/48 (Advanced/Invention); E04B1/08 E04B1/24 E04B1/38 E04C3/04 (Advanced/Non-invention); E04B1/18 (Core/Invention); E04B G06F (Subclass/Invention)
International (IPC 1-7): E04B1/18
CPC: G06F17/5004 E04B1/185 G06F17/5086 E04C3/08 E04C3/32 E04B2/721 E04B2001/2472 E04B2001/405 E04C2003/0491 E04B1/1903 E04B1/24 E04B2001/2415 E04B2001/2448 E04B2001/2454 E04B2001/246 E04B2001/2496 G06F2217/02 E04B2/56 E04B1/21 E04B1/2403 E04B1/30 E04B1/5806 E04B2/7407 E04B2002/567 E04C2/44 E04C3/02 E04C3/30 E04B1/19 E04B2001/0053 E04B2001/2466 E04B2001/2481 E04B1/08 E04C3/40
European: E04B1/24 P04B1/24B4 P04B1/24B40 P04B1/24B42 P04B1/24B51 P04B1/24W
US: 1/1 52/262 52/270 52/634 52/634S 52/651.07 52/651.070S

52/655.1 52/690 52/693 52/694 52/745.05 52/745.050S 52/745.21
52/745.210S 52/792.1 52/792.100P 703/1 703/6



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EP3165688 A1	20170510	EP20160184474	20101209
ES2606559 T3	20170324	ES20100838150T	20101209
HK1176658 A1	20151113	HK20130103861	20130327
HK1216790 A1	20161202	HK20160104785	20160427
HR20161561 T1	20161230	HR20160001561	20161123
HU032062 T2	20170828	HU20100838150T	20101209
IL220227 A0	20120731	IL20100220227	20101209
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WO11075394 A1	20110623	WO2010US59725	20101209
WO14100243 A1	20140626	WO2013US76243	20131218
WO14150591 A1	20140925	WO2014US23718	20140311
ZA201205325 A	20130424	ZA20120005325	20120717
ZA201205325 A	20131223	ZA20120005325	20120717
ZA201504322 A	20160428	ZA20150004322	20150615

Priority:

US20090288011P	20091218	EP20100838150	20101209	NZ20100601123	20101209
US20100964380	20101209	WO2010US59725	20101209	US20120719561	20121219
US20130838723	20130315	US20130014690	20130830	WO2013US76243	20131218
WO2014US23718	20140311	US20140226681	20140326	US20140546759	20141118
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US20160244722	20160823	US20170601306	20170522		

Probable Assignee: PATCO LLC

Assignee(s): (std): LASTOWSKI MICHAEL ; LASTOWSKI MICHAEL J ; PATCO INC ; PATCO LL ; PATCO LLC ; VANKER JOHN LOUIS ; PRESCIENTCO INC

Assignee(s): VANKER JOHN ; PATCO LLC ARVADA

Inventor(s): (std): JOHN LOUIS VANKER ; LASTOWSKI MICHAEL ; LASTOWSKI MICHAEL J ; LASTOWSKI MICHAEL J J ; LOUIS VANKER JOHN ; MICHAEL J LASTOWSKI ; VANKER JOHN ; VANKER JOHN LOUIS ; VANKER JOHN LOUIS ; VANKER JOHN LOUIS

Inventor(s): VANKER JOHN LOUIS LASTOWSKI MICHAEL J ; LASTOWSKI MICHAEL J CENTENNIAL ; JOHN LOUIS VANKER

Agent(s): SPRUSON AND FERGUSON; IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; BLAKE CASSELS AND GRAYDON LLP; ESTUDIO VILLASECA; ESTUDIO VILLASECA Y CIA; JUANITA ACOSTA GOMEZ; LAWRENCE JOHN; JOHNSON CARRIE ANNE LOUISE; HANRATTY CATHERINE; LEHMANN MARIA ISABEL; REINHOLD COHN AND PARTNERS; SHIROTA YURIKO; AKIYAMA ATSUSHI; SPRUSON AND FERGUSON ASIA PTE LTD; ERDEM KAYA; TOLGA CAYLAK; SCHIFF HARDIN LLP; HOLZERIPLAW PC; MARK J; BARNES AND THORNBURG LLP; HOLZER PATEL DRENNAN; JOIKE TREVOR B; PATEL CHIRAG

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

13) Family number: 54356112 (US2013186020A)

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Title: FIRE-RATED JOINT SYSTEM

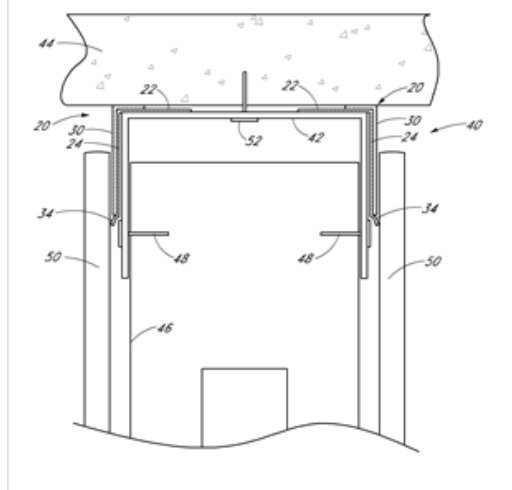
Abstract: A fire-rated angle piece and wall assemblies or other assemblies that incorporate the fire-rated angle piece, in which the angle piece includes an intumescent or other fire-resistant material strip. The angle can be attached adjacent to a corner of a framing member, such as metal tracks, headers, header tracks, sill plates, bottom tracks, metal studs, wood studs or wall partitions, and placed between the framing member and a wall board member at a perimeter of a wall assembly to create a fire block arrangement.

Classifications:

International (IPC 8-9): A62C2/06 E04B1/38 E04B1/94 E04B2/58 E04B2/74 E04C2/30 E04H9/00 (Advanced/Invention)

CPC: E04B1/943 E04B2/58 E04B2/7411 E04B2/7457 E04B2002/7481 E04B2/56 E04B1/948

US: 1/1 52/232 52/241 52/481.1 52/745.09 52/745.21

**Family:**

Publication number	Publication date	Application number	Application date
CA2802579 AA	20130720	CA20132802579	20130117
CA2961638 AA	20170918	CA20172961638	20170317
US2013186020 AA	20130725	US20120426314	20120321
US2014075865 AA	20140320	US20130086802	20131121
US2015337530 AA	20151126	US20150726275	20150529
US2016201319 AA	20160714	US20160996516	20160115
US2017175386 AA	20170622	US20160285440	20161004
US2017234004 AA	20170817	US20170462671	20170317
US8590231 BB	20131126	US20120426314	20120321
US8595999 BA	20131203	US20120560805	20120727
US9045899 BB	20150602	US20130086802	20131121
US9458628 BB	20161004	US20150726275	20150529
US9523193 BB	20161220	US20160996516	20160115

Priority:

US20120589188P 20120120	US20120426314 20120321	US20120560805 20120727
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US20150104613P 20150116	US20150726275 20150529	US20160996516 20160115
US20160310182P 20160318	US20160285440 20161004	US20170462671 20170317

Probable Assignee: CALIFORNIA EXPANDED METAL PRODUCTS CO**Assignee(s):** (std): CALIFORNIA EXPANDED METAL PRODUCTS CO ; PILZ DON A ; PORTER THOMAS ; POLIQUIN RAYMOND E**Assignee(s):** PILZ DONALD ANTHONY ; CALIFORNIA EXPANDED METAL PRODUCTS CO263 N. COVINA LANECITY OF INDUSTRYCA91744US**Inventor(s):** (std): PILZ DONALD A ; PILZ DONALD ANTHONY ; POLIQUIN RAYMOND E ; PILZ DON A ; PORTER THOMAS**Inventor(s):** PORTER THOMASUS ; PILZ DON AUS ; POLIQUIN RAYMOND EUS**Agent(s):** MCMILLAN LLP; URBANEK TED B; KNOBBE MARTENS OLSON AND BEAR LLP**14) Family number: 55900476 (US2014062315A)**

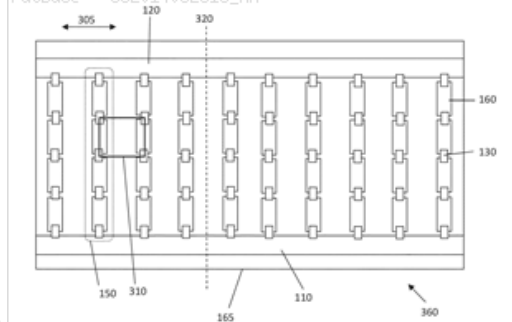
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Title: WIRING BOARDS FOR ARRAY-BASED ELECTRONIC DEVICES**Abstract:** In accordance with certain embodiments, lighting systems include one or more lightsheets each including a plurality of strings of light-emitting elements, control elements, and power conductors for supplying power to the light-emitting elements and control elements.**Classifications:**

International (IPC 8-9): E04B9/24 E04B9/32 F21K9/00 F21K9/65 F21K9/90 F21K99/00 F21L4/00 F21L4/08 F21S2/00 F21S4/22 F21S8/02 F21V11/00 F21V14/02 F21V15/01 F21V19/00 F21V21/02 F21V21/005 F21V21/14 F21V21/34 F21V21/35 F21V23/00 F21V23/02 F21V23/04 F21V23/06 F21V29/70 F21V31/00 F21V33/00 F21V5/00 F21V7/00 F21V9/16 F21Y105/10 F21Y115/10 G06F1/16 G09F13/00 G09F13/22 H01J9/24 H01L33/50 H01L33/62 H05B33/08 H05B37/00 H05B37/02 H05B39/00 H05K1/00 (Advanced/Invention); F21K9/20 F21L4/08 F21V1/00 F21V17/00 F21V17/10 F21V21/005 F21V21/08 F21V23/00 F21V23/06 F21V31/00 F21V5/00 F21V7/00 F21Y101/00 F21Y101/02 F21Y105/00 F21Y105/10 F21Y105/12 F21Y107/00 F21Y109/00 F21Y115/10 H05K3/28 (Advanced/Non-invention)

CPC: H05B33/083 H05B33/0824 F21V21/34 F21L2001/00 F21V23/06 H05B33/0806 G09F13/22 G09F2013/222 F21V21/14 H05B33/0821 G09F13/00 F21V21/005 F21V23/005 E04B9/241 E04B9/32 F21V5/007 F21V5/008 F21V7/0083 F21V15/01 F21V17/101 F21V31/00 F21V33/006 H05B33/0827 H05K3/284 H05K2201/10106 H05K2201/2054 F21Y2107/00 F21S2/00 F21Y2105/12 H01L2224/16225 H01L2224/32225 H01L2224/73204 H01L2224/92125 H05K1/00 F21Y2101/02 F21Y2105/001 F21Y2105/003 H01L2924/00 F21Y2101/00 F21V19/02 F21V23/003 F21V7/00 F21V23/001 F21S4/22 F21V23/02 H05B33/0845 F21K9/20 F21L4/00 F21L4/08 F21V17/007 F21V21/08 F21V31/005 F21V33/00 F21Y2105/10 G06F1/1616 F21Y2115/10 H05B33/08 F21V19/005 H01L2224/48091 F21S8/026 F21Y2113/00 F21K9/90 F21V23/00 H05B37/02

US: 1/1 257/98 315/185R 315/186 315/192 315/294 362/183 362/190 362/230 362/235 362/236 362/249.02 362/249.04 362/249.08 362/249.14 362/249.15



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: COOLEEDGE LIGHTING INC**Assignee(s):** (std): TISCHLER MICHAEL A ; JUNGWIRTH PAUL ; SCHICK PHILIPPE M ; PALFREYMAN PAUL ; SHEEN CALVIN WADE ; SCHICK PHILLIPPE M ; SCHICK PHILIPPE ; TIKHOMOLOV VITALI ; TISCHLER MICHAEL ALBERT ; COOLEEDGE LIGHTING INC**Assignee(s):** COOLEEDGE LIGHTING INC BURNABY ; COMERICA BANK ; COOLEEDGE LIGHING INC**Inventor(s):** (std): JUNGWIRTH PAUL ; PALFREYMAN PAUL ; SCHICK PHILIPPE ; SCHICK PHILIPPE M ; SHEEN CALVIN WADE ; TISCHLER MICHAEL A ; TIKHOMOLOV VITALI**Inventor(s):** TISCHLER MICHAEL A VANCOUVER ; SCHICK PHILIPPE M VANCOUVER ; PALFREYMAN PAUL VANCOUVER ; JUNGWIRTH PAUL BURNABY**Agent(s):** SOMERVELL THOMAS RICHARD; BINGHAM MCCUTCHEN LLP; MORGAN LEWIS AND BOCKIUS LLP; CURRIE MATTHEW T ET AL; CURRIE MATTHEW T**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**15) Family number: 57413103** (US2014270320A)

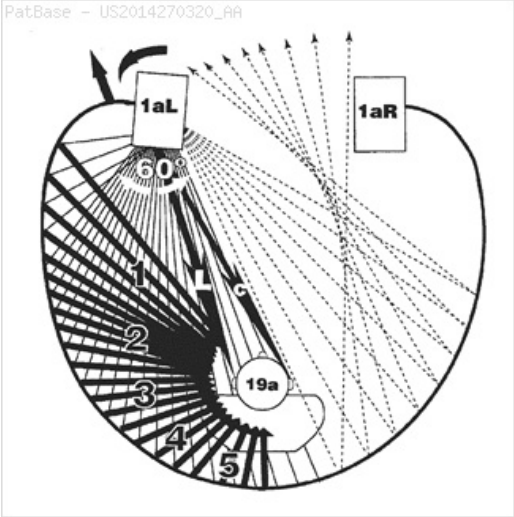
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Title: PORTABLE SOUND SYSTEM**Abstract:** A system for enhancing sound provided by a pair of speakers relative to a listener includes a support structure, a first panel, and a second panel. The first panel is a material having a sound reflective surface and is disposed upright relative to the ground and the listener by the support structure. The first panel extends between a first area proximate a first speaker and a second area proximate the listener. The second panel is a material having a sound reflective surface and is disposed upright relative to the ground and the listener by the support structure. The second panel extends between a third area proximate a second speaker and a fourth area proximate the listener. The first panel and the second panel are shaped such

that sound waves emitted laterally from the first speaker and the second speaker are reflected and focused toward the listener.

Classifications:

International (IPC 8-9): E04B1/343 E04B1/82 E04B1/99 G10K11/20
H04R1/02 H04R1/20 H04R1/32 H04R1/34
H04R5/02 (Advanced/Invention);
E04B1/00 E04B2/74 H04R1/00 H04R5/00 H04R5/02 (Advanced/Non-invention)
CPC: H04R1/323 H04R1/345 H04R1/026 A47G5/00 E04B1/8218
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Locarno class: 14/01 25/03 06/06



Family:

Publication number	Publication date	Application number	Application date
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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID
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MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG
SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW