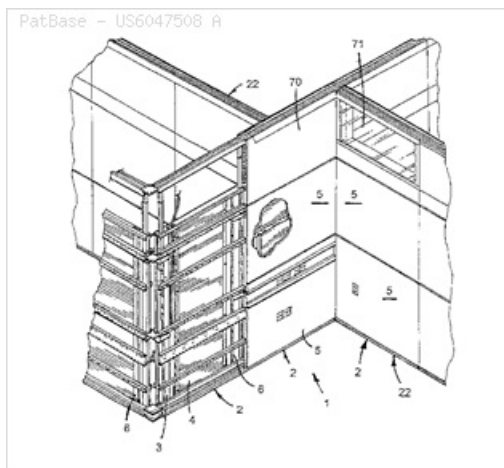


1) Family number: 11423544 (US6047508 A)

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Title: Wall panel partition system

Abstract: A reconfigurable office partition includes a movable panel with a rigid frame, a core panel mounted therein, and at least one cover panel detachably mounted on the frame and enclosing an associated portion thereof. The frame has at least one vertical stile with first and second channels that extend longitudinally therealong and are shaped to receive utilities therein through outwardly opening sides. The outwardly opening sides of the channels are juxtaposed in opposite directions to facilitate routing utilities along both faces of the panel. A variable height frame support may be positioned between the top of the panel and the building ceiling for floor-to-ceiling applications.

Classifications:**International (IPC 8-9):** E04B2/74 E04B2/82 E04C2/38**International (IPC 1-7):** E04B2/00 E04B2/74 E04B2/82 E04C2/38 E04H1/00**CPC:** E04B2/745 E04B2002/7462 E04B2002/7464 E04B2002/7488 E04B2002/749**US:** 52/220.7 52/238.1 52/241 52/242 52/243.1 52/481.2 52/584.1 52/783.18 52/783.19 522/410**Family:**

Publication number	Publication date	Application number	Application date
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CA2321561 AA	20000825	CA19992321561	19990224
EP1068410 A1	20010117	EP19990908369	19990224
JP2002506155 T2	20020226	JP20000535810T	19990224
TH39174 A	20000630	TH19991000627	19990226
US6047508 A	20000411	US19980038371	19980310
WO9946458 A1	19990916	WO1999US03885	19990224

Priority:

US19980038371 19980310 WO1999US03885 19990224

Probable Assignee: STEELCASE DEVELOPMENT INC**Assignee(s):** (std): STEELCASE DEV INC ; STEELCASE INC**Assignee(s):** ABSON MICHAEL H ; FINK ROY W ; GOODMAN STEVEN F ; HAGER ALLEN C ; HOUDA JAMES D ; STEELCASE DEVELOPMENT INC**Inventor(s):** (std): ABSON MICHAEL H ; FINK ROY W ; GOODMAN STEVEN F ; HAGER ALLEN C ; HOUDA JAMES D**Inventor(s):** ALLEN C HAGER ; JAMES D HOUDA ; MICHAEL H ABSON ; ROY W FINK ; STEVEN F GOODMAN**Agent(s):** BORDEN LADNER GERVAIS LLP; GRIFFITH HACK; MOCHIZUKI SHIRO; SOGA MICHIHARU; SOGA MICHITERU

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC 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

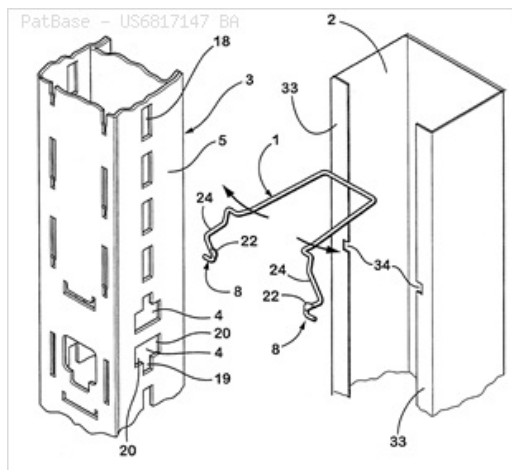
2) Family number: 31334289 (US6817147 BA)

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Title: CLIP FOR PANEL TRIM

Abstract: A clip for retaining a cover to a partition frame member of the type having openings on opposite side faces. The clip includes an elongated flexible member having a U-shape defining a base portion and a pair of arms extending therefrom. Each arm includes an end portion extending inwardly, and having a shape that permits reception of the end portions in openings of a partition frame member to thereby retain the clip on the partition frame in an orientation wherein the base portion is spaced-apart from the partition frame member to permit vertical routing of utility lines along the partition frame member and through the clip.

Classifications:**International (IPC 8-9):** E04B2/74**International (IPC 1-7):** E04C2/52**CPC:** E04B2/7433 E04B2002/7487 E04B2002/7488**US:** 52/220.7 52/239 52/242 52/36.1 52/36.6 52/361 52/366 52/712



Family:

Publication number	Publication date	Application number	Application date
US6817147 BA	20041116	US19990475532	19991230

Priority:

US19990475532 19991230

Probable Assignee: STEELCASE DEVELOPMENT INC

Assignee(s): (std): STEELCASE DEV CORP

Assignee(s): STEELCASE DEVELOPMENT CORP ; STEELCASE DEVELOPMENT INC

Inventor(s): (std): MACDONALD DOUGLAS B

Inventor(s): DOUGLAS B MACDONALD

Agent(s): PRICE HENEVELD COOPER DEWITT AND LITTON

3) Family number: 11941289 (US6003273 A)

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Title: UTILITIES INFEED PANEL

Abstract: A floor-to-ceiling partition wall system includes a plurality of partition panels, each having panel frames interconnected along opposite side edges thereof. The partition panels have cover panels mounted on opposite side faces thereof to form a partition wall having substantially planar side surfaces. A utilities infeed panel has an infeed panel frame with opposite vertical side edges that are interconnected with side edges of adjacent partition panel frames such that the infeed panel forms an integral portion of the partition wall. The infeed panel frame defines first and second opposite side faces, and a vertically-extending central space connected to an opening in the ceiling. A first cover panel is connected to the first side face. A second cover panel is removably connected to the second side face of the infeed panel frame, and closes off the central space. The second cover panel permits access to the central space for utilities management upon removal of the second cover panel.

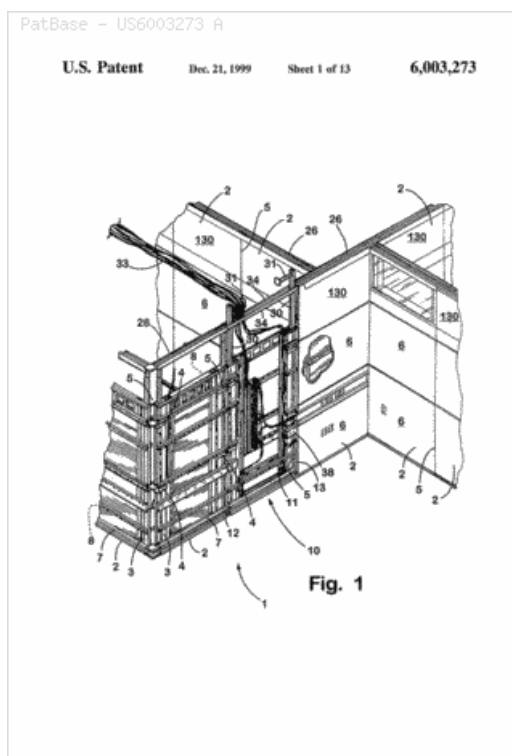
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International (IPC 1-7): E09C2/34

CPC: E04B2/7448 E04B2002/7488 E04B2002/7492 E04C2/521 H02G3/288

US: 174/48 174/49 174/499 174/72A 52/220.1 52/220.6 52/220.7 52/238.1 52/239



Family:

Publication number	Publication date	Application number	Application date
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Priority:

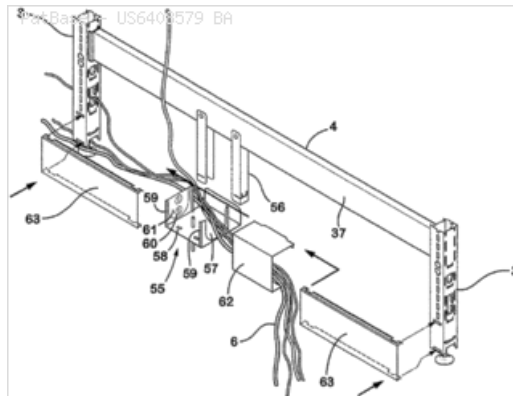
US19980087562 19980529

Probable Assignee: STEELCASE DEVELOPMENT INC A OF MICHIGAN CORP**Assignee(s):** (std): STEELCASE DEV INC**Assignee(s):** STEELCASE DEVELOPMENT INC ; STEELCASE DEVELOPMENT INC A OF MICHIGAN CORP ; STEELCASE INC**Inventor(s):** (std): ELSHOLZ MICHAEL D ; JEFFERS ROBERT E ; MEAD KARL J**4) Family number: 23423859** (US6408579 BA)

© PatBase

Title: THIN PANEL BEAM

Abstract: A frame construction for an office partition panel system includes a pair of spaced-apart generally upright posts, and at least one generally horizontal member extending between and rigidly interconnecting the upright posts. The upright posts define substantially parallel planes separated by a thickness of the upright posts, and the generally horizontal member lies between the parallel planes and has a thickness which is less than the thickness of the upright posts to permit vertical routing of utility lines.

Classifications:**International (IPC 8-9):** E04B2/74**International (IPC 1-7):** E04B2/76 E04C2/52**CPC:** E04B2/7437 E04B2002/7466 E04B2002/7487 E04B2002/7488 E04B2002/749 H02G3/288**US:** 52/220.7**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

US20000558552 20000425

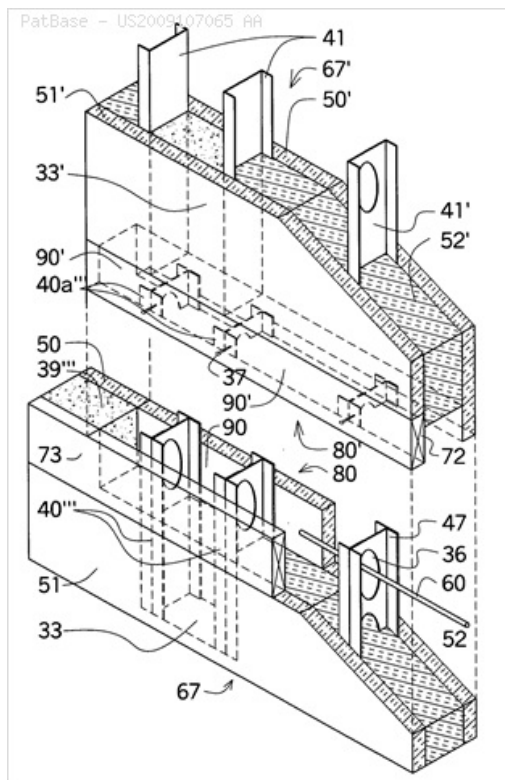
Probable Assignee: STEELCASE DEVELOPMENT INC**Assignee(s):** (std): STEELCASE DEV CORP**Assignee(s):** STEELCASE DEVELOPMENT CORP ; STEELCASE DEVELOPMENT INC**Inventor(s):** (std): ANDERSON CRAIG M ; MACDONALD DOUGLAS B**Inventor(s):** CRAIG M ANDERSON ; DOUGLAS B MACDONALD**Agent(s):** PRICE HENEVELD COOPER DEWITT AND LITTON**5) Family number: 43198191** (US2009107065 AA)

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Title: BUILDING CONSTRUCTION FOR FORMING COLUMNS AND BEAMS WITHIN A WALL MOLD

Abstract: The present invention relates to an improved wall system where a wall form mold has a structural insulated core assembled to form a structural insulated panel (SIP) to form a concrete beam and concrete column to be poured anywhere within the wall as well as between building modules when placed together and erected vertically. The interlocking wall molds interlock within the wall as well as between panels and modules. The wall panels allow concrete columns and beams to be formed in any size and shape. The structural insulated core consists of interlocking foam spacers and support channels which can be glued or screwed together to form an independent wall or as part of a precast wall with columns and beams integrated within the wall panels. Insulated flanges within the wall forming mold separates the wall forming structure from the wall surfaces.

Classifications:**International (IPC 8-9):** E04B E04B1/00 E04B1/14 E04B1/16 E04B1/18 E04B1/24 E04B1/38 E04B1/41 E04B1/58 E04B1/61 E04B1/64 E04B1/76 E04B2/00 E04B2/04 E04B2/08 E04B2/30 E04B2/32 E04B2/58 E04B2/62 E04B2/74 E04B2/76 E04B2/84 E04B2/86 E04C1/42 E04C2/10 E04C2/20 E04C2/52 E04C3/04 E04C3/07 E04C3/09 E04C3/11 E04C3/32 E04G11/00 E04G11/06 E04G9/00 E04H12/10 F16B17/00**CPC:** E04B1/164 E04B1/165 E04B2/7412 E04B2/8641 E04C2003/0473 E04C3/09 E04B2/7457 E04B2/767 E04B2/789 E04B1/2403 E04B1/40 E04B2/62 E04B2/761 E04B2/763 E04B2/825 E04B2001/2409 E04B2001/2415 E04B2001/405 E04B2002/7481 E04B9/061 E04C3/07 E04B1/7608 E04B1/7654 E04B2/58 E04B2/60 E04B2001/2424 E04B2001/2436 E04B2001/2448 E04B2001/2475 E04B2001/2481 E04B2001/2484 E04B1/80 E04B2/8635 E04B2/8647 E04B2/8617 E04B1/14 E04B2001/2457 E04B2001/2469 E04C2003/026 E04C3/32 E04C3/11 E04C3/38 E04H12/10 E04B5/10 E04B5/263 E04C2003/0491 E04C3/065 F16B17/004 E04B1/18 E04B1/38 E04B1/41 E04B1/58 E04B2/08 E04B1/24 E04B1/61 E04B2/74**US:** 249/19 249/192 249/192S 249/19S 52/220.1 52/220.100P 52/220.2 52/220.200P 52/252 52/252P 52/302.1 52/302.100P 52/309.11 52/309.12 52/309.4 52/309.400S 52/426 52/426P



Family:

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WO10014192 A1	20100204	WO2009US04335	20090727
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Priority:

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Probable Assignee: LEBLAND DENNIS**Assignee(s):** (std): LEBLAND DENNIS ; LEBLANG DENNIS ; LEBLANG DENNIS WILLIAM**Assignee(s):** DENNIS LEBLANG**Inventor(s):** (std): LEBLANG DENNIS ; LEBLANG DENNIS WILLIAM**Inventor(s):** DENNIS LEBLANG**Agent(s):** BAXTER IP; BAXTER PATENT ATTORNEYS PTY LTD; CREATEIP; DENNIS LEBLANG; MBM INTELLECTUAL PROPERTY LAW LLP; ZOLI FILIPPO**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**6) Family number: 11623871** (US5740650 A)

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Title: PARTITION SYSTEM

Abstract: A freestanding portable partition panel and related system are provided for open office spaces and the like. Each panel includes a skeleton-like frame having two vertical uprights positioned adjacent opposite side edges thereof. A foot extends downwardly from the bottom of the frame to abuttingly support the panel freestanding on a floor surface. Two pairs of horizontal stringers are attached to the outer faces of the uprights in a vertically spaced apart relationship to rigidly interconnect the same, and define therebetween two horizontal raceway cavities which open to the opposite side faces of the frame, and extend continuously between the opposite side edges thereof. Hence, when like panels are interconnected side-by-side, the open ends of adjacent raceway cavities are aligned and communicate. Cover panels enclose at least those portions of the frame side faces disposed between the stringers, and are detachably mounted thereon to provide ready access to the raceway cavities and permit lay-in wiring therealong. The upper ends of the vertical uprights have upwardly extending arms which define yoke shaped receptacles for receiving drop-in wiring. Special connectors are provided for constructing walls by interconnecting adjacent panels in in-line, off-module, and stacked arrangements.

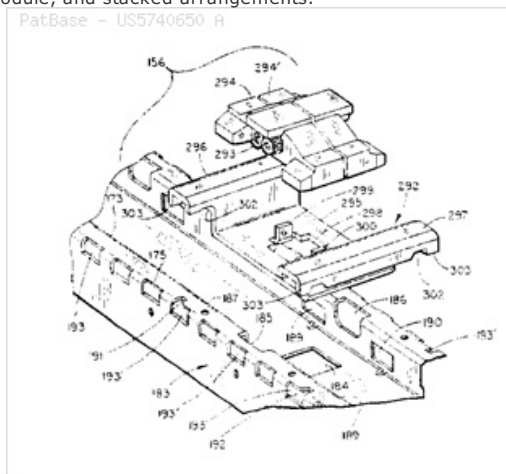
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International (ipc 1-7): A47B1/00 A47B5/00 A47B83/00 A47B83/04 A47B97/00 A47F10/00 E04B02/76 E04B1/00 E04B2/00 E04B2/56 E04B2/74 E04B2/76 E04B2/78 E04B2/82 E04C2/30 E04C2/52 E04F19/04 E04G2/100 E04G21/00 E04H1/00 E04H1/06 E04H3/00 E05F11/00

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**Family:**

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Priority:

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Probable Assignee: STEELCASE INC

Assignee(s): (std): STEELCASE DEV CORP ; STEELCASE DEV INC ; STEELCASE DEVELOPEMENT INC ; STEELCASE INC

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Inventor(s): ACKERLY A C ; ANNE C ACKERLY ; BENJAMIN G SHAW ; BENJAMIN G SWAW ; CHARLES A SEIBER ; CHRISTOPHER O LADA ; DAVID A SCHIPMAN ; DAVID A SHIPMAN ; DAVID A SHIPMAN ; DAVID D MCCLANAHAN ; DAVID DEAN MACCLANAHAN ; DAVID DEAN MCCLANAHAN ; DAVID P CHURCHILL ; DON S MINAMI ; DOUGLAS G LYON ; DR GERHARD SELBERT ; ERNEST P GREER ; FRANK FRIED MAN ; GREER E P ; GREGG R DRAUDT ; JACK A TANIS ; JAMES B ELDON ; JAMES B ELDON III ; JAMES

BENDER ELTON III ; JAMES III BENDER ELDON ; JONATHAN J KING ; KARL J MEAD ; KURT DAMMERMAN ; LEON D SEGAL ; LUCHETTI R J ; MICHAEL J FELDPUSCH ; MICHAEL TINGLEY ; PAUL B SIEBER ; PAUL B SIEBERT ; PHILLIP M HOBSON ; PHILLIP MICHAEL HOBSON ; ROBERT DRAUDT GREGG ; ROBERT J LUCHETTI ; ROBERT P ARKO ; ROBERT P POPPE ; SEAN M CORCORAN ; SHIPMAN D A ; STEPHEN J FELDPUSCH ; STEVEN C GORTSEMA ; TANIS J A DRAUDT G R ; THOMAS B EICH ; TINGLEY ; WILLIAM K HOFMAN

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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 GN GR HU IE IL IS IT JP KE KG KP KR KZ LC 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

7) Family number: 7650207 (US3793789 A)

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Title: BUILDING STRUCTURAL SYSTEM

Abstract: Structural units comprising laminated, skin-stressed, panels and attendant components are joined in various combinations by connecting members so as to form frameless, load-carrying structures affording a clear span desirable not only in commercial, industrial and institutional applications but in residential construction as well. The structural system especially lends itself to factory manufacture and assembly in maximum size transportable sections completely finished for jobsite installation on pre-arranged foundations.

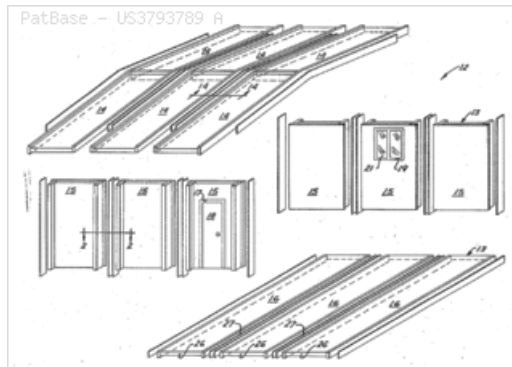
Classifications:

International (IPC 8-9): E04B1/00 E04B1/02 E04B1/10 E04B1/61 E04C2/26 E04C2/284

International (IPC 1-7): E04B1/02 E04B1/41 E04B7/02

CPC: E04B1/0007 E04B1/10 E04B1/6116 E04B1/617 E04B1/6175 E04C2/284

US: 52/463 52/467 52/793.11 52/90.1 D25/35 D25/58 52/46.3



Family:

Publication number	Publication date	Application number	Application date
US3793789 A	19740226	US19720220316	19720124

Priority:

US19720220316 19720124

Probable Assignee:

BUILDING STRUCTURAL SYST INC

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BUILDING STRUCTURAL SYST INC

Assignee(s):

BUILDING STRUCTURAL SYST INC US

Inventor(s): (std):

GREENAMYER C

Inventor(s):

GREENAMYER C US

8) Family number: 54120195 (US2014298745 AA)

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Title: APPARATUS, SYSTEMS AND METHODS FOR MODULAR CONSTRUCTION

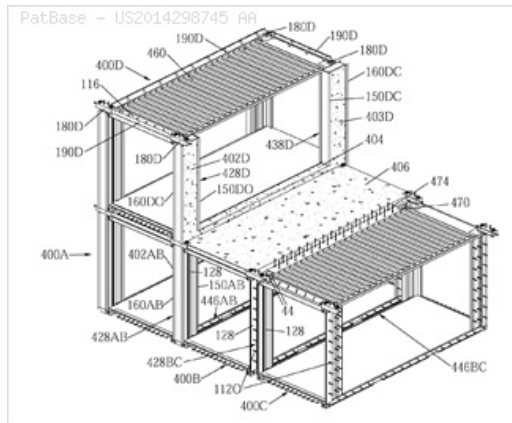
Abstract: Methods of modular building construction are provided. One method includes (a) providing a first volumetric construction module comprising a frame, the frame including a first segment; (b) defining a volume of a composite segment and integrating the first segment with the volume; and (c) filling the volume with a curable material to cast the composite segment. Related methods, components, buildings incorporating such components, and methods of manufacture of components are also provided.

Classifications:

International (IPC 8-9): B28B23/02 B28B23/18 B28B23/22 B28B7/22 E04B1/16 E04B1/343 E04B1/348 E04B2/86 E04C3/02 E04C3/30 E04G21/02 E04H1/00

CPC: E04B1/161 E04B1/165 E04B1/3483 E04B2/86 E04G21/02 E04H1/005 B28B23/02 B28B23/18 B28B7/22

US: 52/425 52/742.14



Family:

Publication number	Publication date	Application number	Application date
CA2853511 AA	20140425	CA20122853511	20121214

CA2853511 C	20160202	CA20122853511	20121214
CA2912994 AA	20130620	CA20122912994	20121214
CA2912994 C	20191203	CA20122912994	20121214
EP2790883 A1	20141022	EP20120856691	20121214
EP2790883 A4	20150722	EP20120856691	20121214
NZ625382 A	20160129	NZ20120625382	20121214
SG11201402089U A1	20140627	SG20141102089	20121214
US2014298745 AA	20141009	US20120356574	20121214
WO13086638 A1	20130620	WO2012CA50901	20121214

Priority:

US20110570656P 20111214 WO2012CA50901 20121214 CA20122853511 20121214
US20120356574 20121214 CA20152853511 20151127

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Assignee(s): (std): MARION INVEST LTD

Assignee(s): MARION INVESTMENTS LTD ; RECHENMACHER WILLIAM JOHN ; YANG TSUNG YUAN

Inventor(s): (std): RECHENMACHER WILLIAM JOHN ; YANG TSUNG YUAN

Agent(s): EISENFUEHR SPEISER; OYEN WIGGS GREEN AND MUTALA LLP; TAKAGAWA DAVID H ET AL

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

9) Family number: 31415466 (US200425539 AA)

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Title: PANEL-BASED MODULAR WALL SYSTEM

Abstract: The present invention is directed to a method and apparatus for improving a modular wall system having a first module and a second module. Each module has a vertical support component having vertical surface edge. The vertical support component edges are positioned in vertical abutting relationship. The improvement includes providing each module's vertical support component edge with a vertical support component slot. The vertical support component slots are in registry and held together by a generally U-shaped connector clip having a base and a pair of legs extending from base. The clip legs are inserted through the vertical support component slots for compressively engaging the vertical support component edges. The first module or second module may carry a wall panel, a window assembly, or a door assembly.

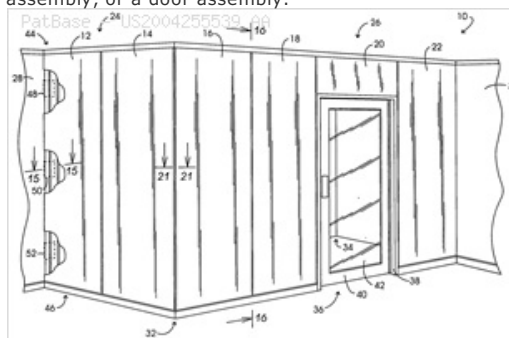
Classifications:

International (IPC 8-9): E04B2/74 E04B2/82

International (IPC 1-7): E04C2/34

CPC: E04B2/7448 E04B2/824

US: 52/506.01 52/782.1



Family:

Publication number	Publication date	Application number	Application date
US200425539 AA	20041223	US20040840322	20040506

Priority:

US20030468512P 20030507 US20040840322 20040506

Probable Assignee: ARTGLO CO

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Assignee(s): ARTGLO CO

Inventor(s): (std): ALEXANDER JOSEPH S ; BEAVERS DALE W ; SHLAYN DORIS

Inventor(s): DALE W BEAVERS ; DORIS SHLAYN ; JOSEPH S ALEXANDER

10) Family number: 46869164 (US2010236169 AA)

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Title: WALL PANEL SYSTEM

Abstract: A wall panel retention system including an upper panel retention structure incorporating the ceiling molding and a lower panel retention structure incorporating the base molding with retention structures for holding the sides of the wall panels to the building wall.

Classifications:

International (IPC 8-9): E04B2/00 E04B2/88 E04B2/96 E04B2/98

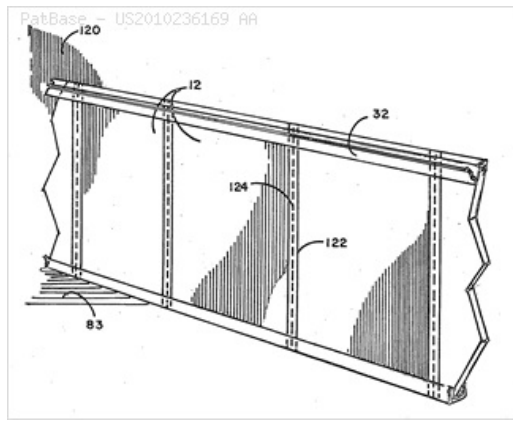
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E04F19/062 E04F19/066 E04F2019/0413 E04F2019/044

US: 52/238.1 52/287.1 52/287.100P 52/288.1 52/290 52/476

52/506.01 52/506.05



Family:

Publication number	Publication date	Application number	Application date
CA2683241 AA	20100923	CA20092683241	20091020
US2010236169 AA	20100923	US20090583561	20090824
US8161705 BB	20120424	US20090583561	20090824

Priority:

US20090210672P 20090323

US20090583561 20090824

Probable Assignee:

PRATT JAMES M

Assignee(s): (std):

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Inventor(s): (std):

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