

1) Family number: 45959013 (US2011271876A)

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Title: GEOPOLYMER COMPOSITIONS

Abstract: The present invention relates to geopolymer compositions, methods of producing the compositions, and uses thereof. The geopolymer compositions broadly are comprised of a geopolymer binder and an aggregate and, once cured, can exhibit compressive strengths in excess of that of Portland cement-based concrete formulations. The geopolymer composition of the present invention adheres to most surfaces and can be used in the formation of a mortarless building block, floor screed, bench, building block brick, support column or pre-molded column, beam, paving stone, tiles, stone accouterment for a garden, countertop, bathtub, sink, a geopolymer slab, a structural geopolymer composition, a reinforced geopolymer composition, a steel reinforced geopolymer composition, or as a substitute for structural concrete in foundations, beams, columns, or slab with the addition as necessary of steel reinforcement.

Classifications:

International (IPC 8-9): B29C39/02 C04B18/06 C04B28/00 C04B28/06 C04B28/08 C04B7/14 C08K3/34 (Advanced/Invention); C04B28/00 C08K3/00 (Core/Invention)

CPC: Y02P40/165 C04B28/008 C04B12/005 C08K3/34

European: C04B12/00G C04B28/00G2 M08K3/34

US: 106/707 106/789 106/789S 106/790 106/790S 264/122 264/122S

Family:

Publication number	Publication date	Application number	Application date
CN102325736 A	20120118	CN201080007675	20100108
EP2385966 A2	20111116	EP20100729126	20100108
US2011271876 AA	20111110	US20100143717	20100108
WO10079414 A2	20100715	WO2010IB00011	20100108
WO10079414 A3	20100902	WO2010IB00011	20100108

Priority:

NZ20090574113 20090109 WO2010IB00011 20100108

Probable Assignee: MICHAEL WRIGHT

Assignee(s): (std): ALTER STEPHEN ; MICHAEL WRIGHT ; STEPHEN ALTER ; WRIGHT MICHAEL

Inventor(s): (std): MICHAEL WRIGHT ; STEPHEN ALTER ; ALTER STEPHEN ; WRIGHT MICHAEL

Agent(s): SWINKELS BART WILLEM

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

2) Family number: 28198026 (US2001026735A)

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Title: Block with multifaceted bottom surface

Abstract: A block for use in constructing a retaining wall having a bottom with a non-planar portion which creates a gap between the bottom surface and the top surface of a lower course of similar blocks when the block is placed thereon. This gap assists the block in resting on the lower course of blocks in a stable, level manner by providing a space where small amounts of rubble and dirt may exist without interfering with the stacking of the blocks. The non-planar, preferably concave, portion is also advantageous in that it reduces the unit weight of the block without significantly affecting the structural integrity of the block. Preferably, the block's bottom surface further comprises a plurality of grooves which further reduce the weight of the block and provide additional clearance in the gap for larger stones. It is envisioned that these grooves be "V" shaped, thereby having angled walls which act to funnel the larger stones into an area of adequate clearance when the block is being placed on a lower course of similar blocks.

Classifications:

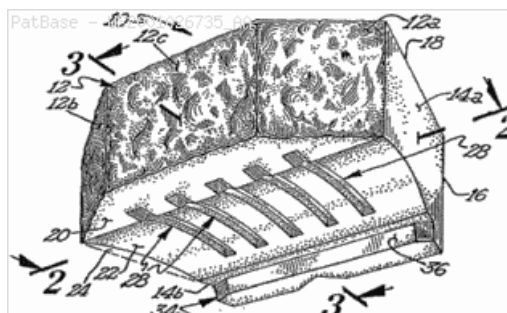
International (IPC 8-9): E02D29/02 E04B5/04 E04C1/00 E04C2/04 (Advanced/Invention)

International (IPC 1-7): E01C5/00 E02D17/00 E02D29/00 E02D29/02 E02D3/02 E02D5/00 E04B5/04 E04C2/04 E21D20/00

CPC: E02D29/025 E04C1/395

European: E02D29/02E E04C1/39B

US: 404/34 404/41 405/262 405/262S 405/284 405/284P 405/284S 405/286 405/286P 405/286S 52/596 52/596S 52/603 52/604 52/604S 52/605 52/605S 52/606 52/607 52/608 52/608S 52/609 52/610 52/610S



Family:

Publication number	Publication date	Application number	Application date
US2001026735 AA	20011004	US20010864357	20010523
US2001038775 AA	20011108	US20010811119	20010317
US2002054790 AA	20020509	US20010033460	20011228
US2003194279 AA	20031016	US20030438385	20030515
US2004151550 AA	20040805	US20040762645	20040120
US2005123362 AA	20050609	US20050040653	20050121

US2006239784 AA	20061026	US20060471446	20060620
US6250850 BA	20010626	US19990377094	19990819
US6592301 BB	20030715	US20010864357	20010523
US6682269 BB	20040127	US20010811119	20010317
US6910833 BB	20050628	US20030438385	20030515
US7090438 BB	20060815	US20040762645	20040120
US7351014 BB	20080401	US20060471446	20060620

Priority:

US19990377094 19990819 US20010811119 20010317 US20010864357 20010523
US20010033460 20011228 US20030438385 20030515 US20040762645 20040120
US20050040653 20050121 US20060471446 20060620

Probable Assignee: ANCHOR WALL SYSTEMS INC

Assignee(s): (std): MORTARLESS TECHNOLOGIES LLC ; PRICE GERALD P ; PRICE RAYMOND R ; ROCKWOOD RETAINING WALLS INC

Assignee(s): ANCHOR WALL SYSTEMS INC

Inventor(s): (std): PRICE RAYMOND R ; PRICE GERALD P

Inventor(s): PRICE RAYMOND ; PRICE GERALD

Agent(s): MOORE HANSEN AND SUMNER PLLP; PATTERSON THUENTE SKAAR AND CHRISTENSEN PA; MOORE HANSEN AND SUMNER

3) Family number: 44870091 (IN02223DE2008A)

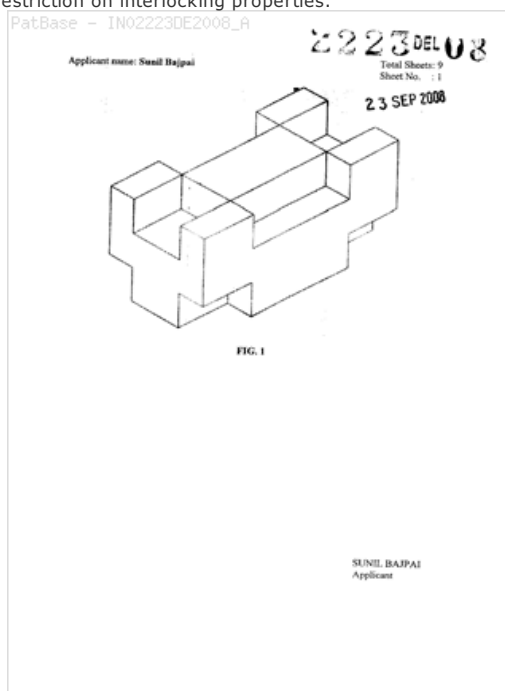
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Title: IMPROVED BRICK

Abstract: Improved Brick which can be interlocked itself in various forms and not only provides vertical, but also lateral strength against instances such as earthquakes and minimizes the use of binding material such as concrete etc. due to the very fact that the interlocking mechanism of the bricks, provides structural advantage to the building / application for which the bricks are being placed for use. The dimensions of the said brick are flexible so that if required length, width and thickness or depth of shear keys may be varied without putting any restriction on interlocking properties.

Classifications:

International (IPC 1-7): E04F15/00



Family:

Publication number	Publication date	Application number	Application date
IN02223DE2008 A	20100409	IN2008DE02223	20080923

Probable Assignee: SUNIL BAJPAI

Assignee(s): SUNIL BAJPAI

Inventor(s): SUNIL BAJPAI

4) Family number: 34332201 (US2008066407A)

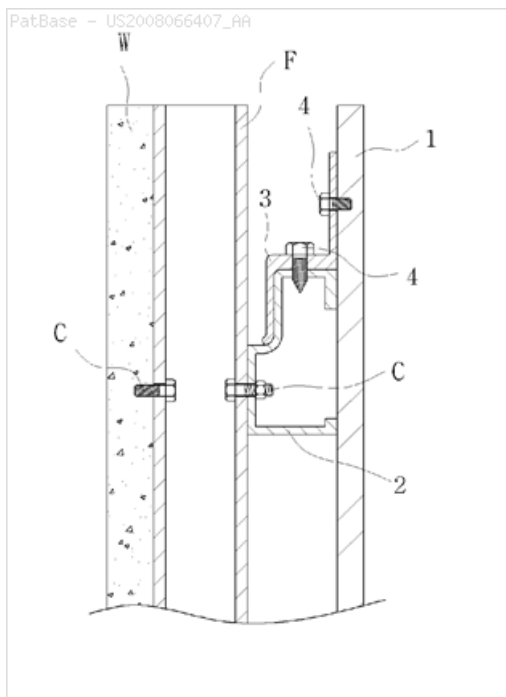
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Title: PANEL INSTALLATION SET AND METHOD OF INSTALLING PANEL USING THE SAME

Abstract: The present invention relates to a panel installation set used to finish the surface of a building, and to a method of installing panels using the panel installation set. The panel installation set comprises a support member (10) having a coupling projection (15) and a panel (20) having a coupling groove (25). The installation method includes the steps of fixing a support member (10) having a coupling projection to a building and assembling a panel (20) having a coupling groove (25) to the support member (10) in a manner such that the coupling projection (15) is inserted into the coupling groove (25). According to the present invention, since panels are assembled in a sliding manner, the panel installation set has the advantage of enabling easy and simple assembly of the panels, and reducing installation cost by reducing the use of subsidiary material.

Classifications:

International (IPC 8-9): E04B1/60 E04B2/82 E04B2/88 E04F13/07 E04F13/08 E04F13/24 (Advanced/Invention); E04B2/82 E04F13/08 E04F13/24 (Core/Invention); E04B1/60 E04B2/88 E04F13/07 (Core/Non-invention)
CPC: E04F13/0819 E04F13/0816
European: E04F13/08B2C6
US: 52/364 52/364P



Family:

Publication number	Publication date	Application number	Application date
CN101091027 A	20071219	CN200680000540	20060601
EP1924753 A1	20080528	EP20060768715	20060601
EP1924753 A4	20100428	EP20060768715	20060601
EP1924753 B1	20161109	EP20060768715	20060601
JP2008506873 T2	20080306	JP20070535621T	20060601
JP4685109 B2	20110518	JP20070535621T	20060601
KR100760334 B1	20070920	KR20050086904	20050916
KR20070032560 A	20070322	KR20050086904	20050916
TW200823345 A	20080601	TW20060144518	20061130
TWI332048 B	20101021	TW20060144518	20061130
US2008066407 AA	20080320	US20060575263	20060601
WO07032592 A1	20070322	WO2006KR02097	20060601

Priority:

KR20050086904 20050916 WO2006KR02097 20060601

Probable Assignee: LG CHEM LTD

Assignee(s): (std): CHO KEUM SHIL ; KANG GIL HO ; KIM KWANG MIN ; LG CHEMICAL LTD ; SON BEOM GOO

Assignee(s): LG CHEM LTD ; LG CHEM LTD KR

Inventor(s): (std): CHO KEUM SHIL ; KANG GIL HO ; KIM KWANG MIN ; SON BEOM GOO

Inventor(s): SON, BEOM-GOO ; KIM, KWANG-MIN ; KANG, GIL-HO ; CHO, KEUM-SHIL

Agent(s): HOFFMANN EITLE; CANTOR COLBURN LLP

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 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: 33002266 (US2006101770A)

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Title: EXTENDED WIDTH RETAINING WALL BLOCK

Abstract: A retaining wall block having a front surface, a rear surface, side surfaces, a top surface, and a bottom surface. Each side surface comprises a first section, a second section, a third section, and a fourth section, with the sections configured and arranged to allow a plurality of blocks to be arranged in a convex wall structure. The retaining wall block may be combined with one or more pins, which may engage vertically adjacent blocks and which may engage an end of an earth anchor. The retaining wall block may be cast in a mold box whose depth and width are configured and arranged to substantially approximate the dept and width of a standard sized pallet.

Classifications:

International (IPC 8-9): E02D17/00 E02D29/02 E02D5/00 E04B5/04 E04C2/04 (Advanced/Invention); E02D17/00 E02D29/02 E02D5/00 E04B5/04 E04C2/00 E04C2/04 (Core/Invention)

CPC: B28B17/0018 B28B17/0027 E04B2002/0217 E04B2002/0245 E04B2002/026 E04C1/395 E02D29/025 E02D29/0266

European: B28B17/00C B28B17/00D E02D29/02E E02D29/02F1 E04C1/39B P04B2/02M1E1 P04B2/02M3A P04B2/02N2

US: 405/262 405/262S 405/284 405/284S 405/286 405/286P 52/603 52/603P 52/604 52/604P 52/605 52/605P 52/606 52/608 52/608S 52/609

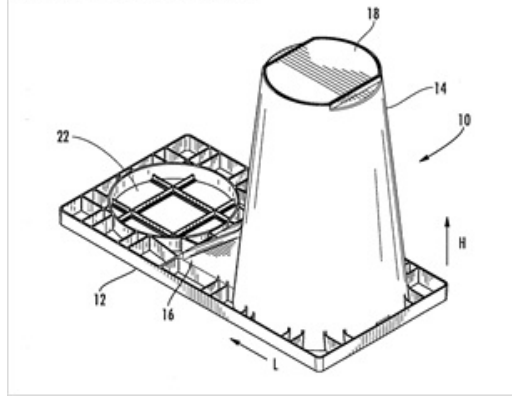
Publication number	Publication date	Application number	Application date
CN101091024 A	20071219	CN200580041932	20051112
EP1812655 A2	20070801	EP20050851553	20051112
EP1834054 A2	20070919	EP20050820273	20051112
MX2007005699 A1	20070720	MX20070005699	20051112
MX2007005700 A1	20070720	MX20070005700	20051112
US2006101770 AA	20060518	US20050271223	20051112
US2006110222 AA	20060525	US20050271621	20051112
US2006179780 AA	20060817	US20060405379	20060417
US2007144099 AA	20070628	US20070712104	20070228
US7367752 BB	20080506	US20050271223	20051112
US7396190 BB	20080708	US20070712104	20070228
US7497646 BB	20090303	US20060405379	20060417
WO06053224 A2	20060518	WO2005US40941	20051112
WO06053224 A3	20070705	WO2005US40941	20051112
WO06053235 A2	20060518	WO2005US40972	20051112
WO06053235 A3	20061102	WO2005US40972	20051112

US20040627360P	20041112	US20050669949P	20050408	US20050669947P	20050408
US20050673946P	20050422	US20050707496P	20050811	US20050271223	20051112
US20050271621	20051112	WO2005US40941	20051112	WO2005US40972	20051112
US20060405379	20060417	US20070712104	20070228		

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

Abstract: A reinforcement unit and methods are provided for creating footings for supporting structures, such as a fence post, using a reinforcement unit that has a tower that is generally perpendicular to a base, the tower defining a cavity for receiving a portion of the structure and an anchoring material. The reinforcement unit can include a top portion of a tower that is frangible. The base of the reinforcement unit can further include a pocket (or similar recess) substantially similar in width or diameter to the top portion of the tower such that a second identical reinforcement unit can be inverted and stacked on top of the second reinforcement unit. The methods can include placing the reinforcement unit on a layer of backfill material behind the wall face so that the unit is located adjacent the wall face and the base of the reinforcement unit extends away from the wall face, covering the base with at least one other layer of the backfill material, fracturing the top portion from the tower, such that the top portion drops into the cavity of the tower, depositing a bottom portion of the structure in the cavity of the tower, and filling the cavity of the tower with an anchoring material.

US: 1/1 52/292

**Family:**

Publication number	Publication date	Application number	Application date
GB201916326 A0	20191225	GB20190016326	20180504
US2018327995 AA	20181115	US20170685354	20170824
WO18213023 A1	20181122	WO2018US31134	20180504

Priority:

US20170506030P 20170515 US20170685354 20170824 WO2018US31134 20180504

Probable Assignee: GLEN RAVEN INC

Assignee(s): (std): GLEN RAVEN INC

Inventor(s): (std): EARHART ROBERT CHARLES ; CLARK MATTHEW LANDON ; EARHART ROBERT ; CLARK MATT

Agent(s): CANNON JAMES R

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 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

7) Family number: 53291357 (US2013074436A)

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Title: MULTI-COMPONENT RETAINING WALL BLOCK WITH NATURAL STONE APPEARANCE

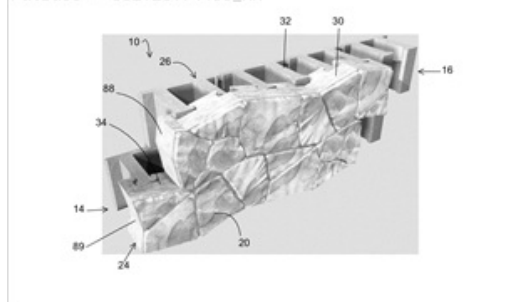
Abstract: A mortarless retaining wall constructed of a plurality of segmental retaining wall (SRW) blocks stacked in an array of superimposed rows. Each SRW block includes a face unit having connectors and one or more anchoring units each having connectors. The anchoring unit connectors are of complementary shape to interlock with respective face unit connectors. The face unit and each anchoring unit forming the SRW block when interlocked, each anchoring unit for confronting soil being retained by the retaining wall. The face units have first and second load bearing surfaces and first and second end surfaces forming front edges which are non-linear along the entire edge. The first and second load bearing surfaces are non-planar across the entire load bearing surfaces.

Classifications:

International (IPC 8-9): B44F9/04 E02D29/02 E04B1/02 E04B1/38 E04C1/00 (Advanced/Invention)

CPC: E02D29/025

US: 405/284 52/391 52/477 52/568 52/588.1 52/609

**Family:**

Publication number	Publication date	Application number	Application date
AU2012312580 AA	20130328	AU20120312580	20120919
AU2012312580 AA	20140424	AU20120312580	20120919
CA2755333 AA	20130323	CA20112755333	20111017
CA2755333 C	20140128	CA20112755333	20111017
DE602012012960 D1	20160121	DE201260012960T	20120919
EP2758603 A2	20140730	EP20120766559	20120919
EP2758603 B1	20151209	EP20120766559	20120919
ES2557378 T3	20160125	ES20120766559T	20120919
HU026430 T2	20160530	HU20120766559T	20120919
PL2758603 T3	20160531	PL20120766559T	20120919
TR201515781 T4	20151221	TR20150015781T	20120919
US2013074436 AA	20130328	US20110241703	20110923
US9003734 BB	20150414	US20110241703	20110923
WO13043688 A2	20130328	WO2012US56058	20120919
WO13043688 A3	20130829	WO2012US56058	20120919

Priority:

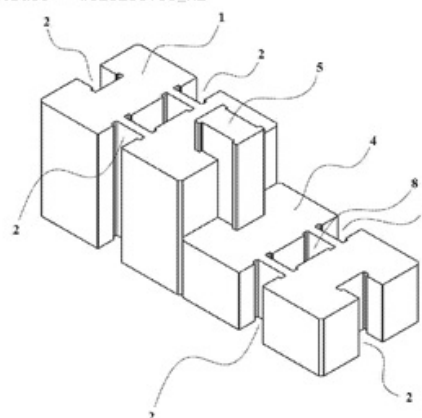
US20110241703 20110923 CA20112755333 20111017 EP20120766559 20120919

Probable Assignee: ALLAN BLOCK LLC**Assignee(s):** (std): ALLAN BLOCK INTERNATIONAL LLC ; ALLAN BLOCK LLC ; BOTT TIMOTHY A ; BOTT TIMOTHY ; ALLAN BLOCK CANADA LLC ; ALLAN BLOCK INT LLC**Assignee(s):** ALLAN BLOCK INT LLC BLOOMINGTON**Inventor(s):** (std): BOTT TIMOTHY A**Inventor(s):** BOTT TIMOTHY A SUNFISH LAKE ; TIMOTHY A BOTT**Agent(s):** FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; BOEHMERT AND BOEHMERT ANWALTSPARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE; BEATTIE ALEX THOMAS STEWART; UNGRIA JAVIER; TUGBA DERYA YILMAZ; FREDRIKSON AND BYRON PA; SEGELBAUM CHARLES D 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**8) Family number: 71154385 (WO18163033A1)**

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Title: MALE-FEMALE COUPLING SYSTEM FOR MECHANICAL LOCKING**Abstract:** The invention relates to a device comprising a block (1), a block of a lower height (4) and a connector (5), with constant cross sections, and to a male-female coupling system formed by arranging these units and the derived blocks thereof, by means of an assembly in which a mechanical lock is produced, such that each unit is locked in position without being able to rotate or move in any direction, this being achieved without needing to use any other additional element. The proposed male-female coupling system only requires three basic units, the main block (1), the block of a lower height (4) and the connector (5), to form the arrangement, and terminal and connection units, thereby facilitating the construction process.**Classifications:****International (IPC 8-9):** E04B2/02 E04C1/00 (Advanced/Invention); B29L31/10 (Advanced/Non-invention)**CPC:** E04B2/02 E04C1/00

PatBase - WO18163033_A1

**FIG.1****Family:**

Publication number	Publication date	Application number	Application date
CO20170002226 A1	20180910	CO20170002226	20170306
WO18163033 A1	20180913	WO20181B51347	20180302

Priority:

CO20170002226 20170306

Probable Assignee: UNIV DE MEDELLIN**Assignee(s):** (std): ARISTIZABAL GIL VICTOR MANUEL ; CAMARA COLOMBIANA DE LA CONSTRUCCION CAMACOL ANTIOQUIA ; CAMARA COLOMBIANA DE LA CONSTRUCCION CAMACOL REGIONAL ANTIOQUIA ; LADRILLERA SAN CRISTOBAL S A ; SEGUROS GENERALES SURAMERICANA S A ; UNIV EAFIT ; UNIV DE MEDELLIN ; SURAMERICANA S A ; UNIVERISDAD DE MEDELLIN**Assignee(s):** SEGUROS GENERALES SURAMERICANA SA ; UNIVERSIDAD DE MEDELLIN ; SURAMERICANA SA ; LADRILLERA SAN CRISTOBAL SA ; UNIVERSIDAD EAFIT**Inventor(s):** (std): ARISTIZABAL GIL VICTOR MANUEL ; JARAMILLO FERNANDEZ JUAN DIEGO ; MORALES LONDONO MARCELA ; JARAMILLO FERNANDEZ JUAN DIEGO DEL SAGRADO CORAZON DE JESUS**Agent(s):** RENDON VERA JOSE SANTIAGO**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 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: 5160438 (US4627209A)**

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Title: INTERLOCKING BLOCKS AND CONSTRUCTION SYSTEM COMPRISING SAID BLOCKS**Abstract:** A monolithic masonry building block capable of controlled alignment in vertical and horizontal directions provides a wall structure having vertical and horizontal grooves which can be filled with a bonding agent. The block is comprised of

sidewalls and transverse walls that interlock with similar components of adjacent identical blocks.

Classifications:

International (IPC 8-9): E04B2/18 (Advanced/Invention);

E04B2/02 (Advanced/Non-invention);

E04B2/14 (Core/Invention);

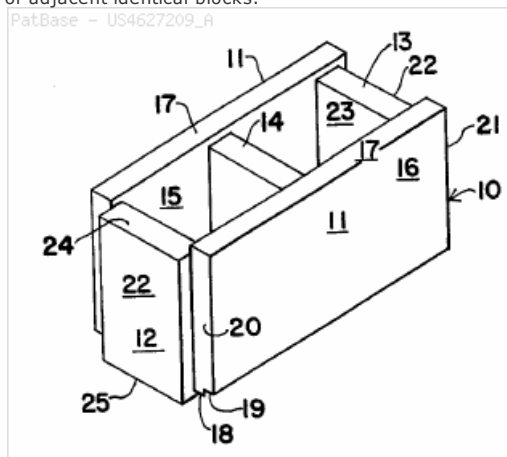
E04B2/02 (Core/Non-invention)

International (IPC 1-7): E04C1/10

CPC: E04B2/18 E04B2002/0206

European: E04B2/18 P04B2/02M1A

US: 52/589 52/591.1 52/593



Family:

Publication number	Publication date	Application number	Application date
US4627209 A	19861209	US19850723528	19850415

Priority:

US19850723528 19850415

Probable Assignee: SCHWARTZ ERVIN J

Assignee(s): (std): SCHWARTZ ERVIN J

Inventor(s): (std): SCHWARTZ ERVIN J

10) Family number: 28437648 (US6397212B)

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Title: SELF-LEARNING AND SELF-PERSONALIZING KNOWLEDGE SEARCH ENGINE THAT DELIVERS HOLISTIC RESULTS

Abstract: A search engine provides intelligent multi-dimensional searches, in which the search engine always presents a complete, holistic result, and in which the search engine presents knowledge (i.e. linked facts) and not just information (i.e. facts). The search engine is adaptive, such that the search results improve over time as the system learns about the user and develops a user profile. Thus, the search engine is self personalizing, i.e. it collects and analyzes the user history, and/or it has the user react to solutions and learns from such user reactions. The search engine generates profiles, e.g. it learns from all searches of all users and combines the user profiles and patterns of similar users. The search engine accepts direct user feedback to improve the next search iteration. One feature of the invention is locking/unlocking, where a user may select specific attributes that are to remain locked while the search engine matches these locked attributes to all unlocked attributes. The user may also specify details about characteristics, provide and/or receive qualitative ratings of an overall result, and introduce additional criteria to the search strategy or select a search algorithm. Additionally, the system can be set up such that it does not require a keyboard and/or mouse interface, e.g. it can operate with a television remote control or other such human interface.

Classifications:

International (IPC 8-9): G06F17/30 (Advanced/Invention);

G06F17/30 (Core/Invention)

International (IPC 1-7): A63H33/00 A63H33/04 A63H33/08

G06F17/30

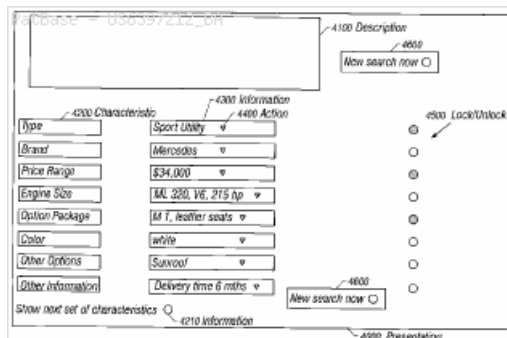
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G06Q30/0201

European: G06F17/30W1 G06Q30/0201

US: 705/7 705/7.29 707/10 707/5 707/704 707/708 707/737

707/914 707/917 707/999.005 707/999.01 707/E17.108



Family:

Publication number	Publication date	Application number	Application date
AU2001292556 AA	20030324	AU20010292556	20010912
US6397212 BA	20020528	US19990262953	19990304
WO03022384 A1	20030320	WO2001US26020	20010912

Priority:

US19990262953 19990304 WO2001US26020 20010912

Probable Assignee: OL SECURITY LIABILITY CO LTD

Assignee(s): (std): MILLER GEORGE R ; BIFFAR PETER

Assignee(s): HANGER SOLUTIONS LLC ; OL SECURITY LIABILITY CO LTD ; ON OFFLINE ; ON OFFLINE INC ; SUZAMAKI TRANSFER JP LLC

Inventor(s): (std): MILLER GEORGE R ; BIFFAR PETER

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

Title: Carbon baking furnace-refractory construction

Abstract: A ring furnace having pits arranged in rows and sections with individual headwalls between adjacent pits in each row and flue sections separating adjacent pits in each section with the flue sections meeting end-to-end to provide a continuous flue on each side of a row of pits. The connection between adjacent flue section ends is adapted to provide for longitudinal expansion and contraction of each flue section, and is also adapted to provide a tight seal between connected flue ends without a need for using a sealing material at such connection.

Classifications:

International (IPC 8-9): F27B13/02 F27B13/06 (Advanced/Invention); F27B13/00 (Core/Invention)

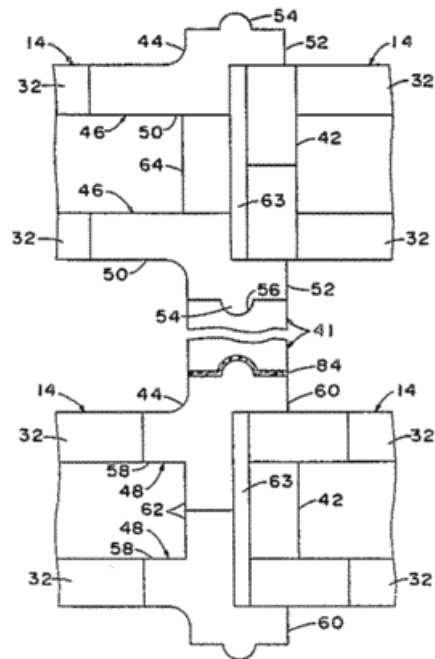
International (IPC 1-7): A45D2/14 F27B7/00

CPC: F27B13/02 F27B13/06

European: F27B13/02 F27B13/06

US: 432/192 432/247

PatBase - US4842511_A



Family:

Publication number	Publication date	Application number	Application date
US4842511 A	19890627	US19870138205	19871228

Priority:

US19870138205 19871228

Probable Assignee: ALUMINUM CO OF AMERICA

Assignee(s): (std): ALUMINUM CO OF AMERICA

Assignee(s): ALUMINUM COMPANY OF AMERICA ; ALUMINUM CO

Inventor(s): (std): YOUNG LELAND L

Title: BRICK WALLS

Abstract: A glass brick wall assembly 10 comprising a plurality of generally rectangular glass bricks 11 arranged in horizontal runs 12, the wall having horizontally extending elongate separation strips 13 comprising sections 14 connected together by hinge means so that adjacent sections 14 are set at a pivoted position relative to one another.

Classifications:

International (IPC 8-9): E04B2/00 E04B2/04 E04B2/06 E04B2/76 E04C1/42 E04G21/18 (Advanced/Invention);

E04G21/18 (Core/Invention);

E04B2/00 E04B2/04 E04B2/76 E04C1/00 E04G21/18 (Core/Invention)

International (IPC 1-7): E04B1/12 E04B2/00 E04B2/04 E04B2/06

E04B2/76 E04B5/46 E04C1/42

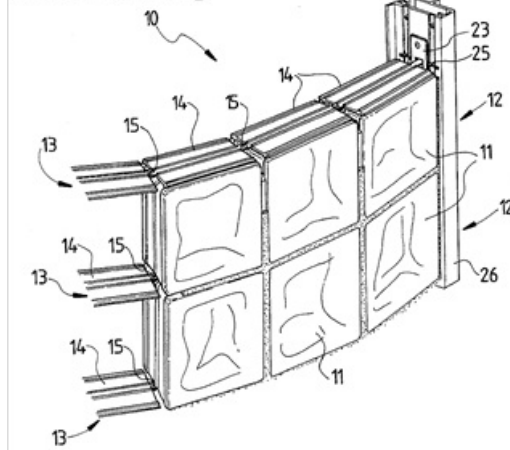
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European: E04C1/42 E04G21/18C

US: 52/245 52/306 52/307 52/308 52/396.08 52/474 52/481.1

52/481.2 52/656.8 52/781.3

PatBase - US5640818_A



Family:

Publication number	Publication date	Application number	Application date
AT209280 E	20011215	AT19940924153T	19940815
AT254224 E	20031115	AT19940111536T	19940815
AU199474530 A1	19950314	AU19940074530	19940815

AU199530188 A1	19960307	AU19950030188	19950822
AU199533157 A1	19951207	AU19950033157	19951011
AU199748483 A1	19980226	AU19970048483	19971218
AU282793 A0	19940106	AU1993PM02827	19931206
AU319195 A0	19950622	AU1995PN03191	19950526
AU638594 A0	19940714	AU1994PM06385	19940621
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AU698489 B2	19981029	AU19940074530	19940815
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AU767694 A0	19940915	AU1994PM07676	19940825
AU874394 A0	19941103	AU1994PM08743	19941012
CA2156942 AA	19960226	CA19952156942	19950825
CA2160391 AA	19960413	CA19952160391	19951012
CA2169436 AA	19960212	CA19942169436	19940815
DE69429178 D1	20020103	DE19946029178	19940815
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DE69433333 D1	20031218	DE19946033333	19940815
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DK1127993 T3	20040322	DK20010111536T	19940815
EP0713553 A1	19960529	EP19940924153	19940815
EP0713553 A4	19960612	EP19940924153	19940815
EP0713553 B1	20011121	EP19940924153	19940815
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ES2211693 T3	20040716	ES20010111536T	19940815
PT1127993 T	20040331	PT20010111536T	19940815
PT713553 T	20020429	PT19940924153T	19940815
US5640818 A	19970624	US19950542338	19951012
US5640819 A	19970624	US19950519206	19950825
US5740646 A	19980421	US19960591561	19960213
US5845443 A	19981208	US19970788245	19970127
WO9505510 A1	19950223	WO1994AU00472	19940815

Priority:

AU1993PM00556 19930813	AU1993PM02105 19931028	AU1993PM02484 19931117
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AU19970048483 19971218		

Probable Assignee: GLASHAUS INC

Assignee(s): (std): EURO GLASHAUS S L ; WIRKUS M A ; RANDOLF ANDREW WIRKUS ; MICHELLE ANN WIRKUS ; WIRKUS MICHELL ANN ; WIRKUS R A ; WIRKUS MICHELLE ANN ; WIRKUS RANDOLF ANDREW

Assignee(s): WIRKUS RA ; GLASHAUS INC ; REIKER ENTERPRISES OF NORTHWEST FLORIDA INC ; EURO GLASHAUS SL ; WIRKUS MA ; GLASHOUS INC ; ARTESIAN SOLUTIONS PTY LTD ; ARTESIAN SOULTIONS PTY LTD ; BREEZE POWER NATURAL COOLING PTY LTD

Inventor(s): (std): WIRKUS ANDREW ; WIRKUS ANN ; WIRKUS MICHELL ANN ; WIRKUS RANDOLF ANDREW ; WIRKUS MICHELLE ANN

Inventor(s): MICHELLE ANN WIRKUS ; RANDOLF ANDREW WIRKUS

Agent(s): INTELLEPRO PATENT AND TRADE MARK ATTORNEYS; INTELLEPRO; GIERCZAK EUGENE J A

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US UZ VN

13) Family number: 57418810 (US2014270955A)

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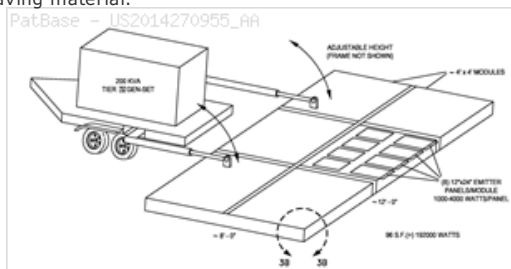
Title: PAVEMENT REPAIR SYSTEM UTILIZING SOLID PHASE AUTOREGENERATIVE COHESION

Abstract: A pavement repair system is provided utilizing Solid Phase Auto Regenerative Cohesion (SPARC) Homogenization by Liquid Asphalt Oligopolymerization (HALO) technologies. The SPARC-HALO system is suitable for use in repairing asphalt pavement, including pavement exhibiting a high degree of deterioration (as manifested in the presence of potholes, cracks, ruts, or the like) as well as pavement that has been subject to previous repair and may comprise a substantial amount of dirt and other debris (e.g., chipped road paint or other damaged or disturbed surfacing materials). The HALO system is suitable for rejuvenating aged asphalt, thereby improving properties of the paving material.

Classifications:

International (IPC 8-9): B32B18/00 B32B37/12 B32B37/16 B32B5/02 B32B7/12 C08L C08L95/00 C09D119/00 C09D123/22 C09D195/00 C09J C09J119/00 C09J195/00 C10C3/00 C10C3/10 E01C E01C11/00 E01C11/16 E01C19/00 E01C19/15 E01C19/23 E01C19/48 E01C21/00 E01C23/00 E01C23/03 E01C23/04 E01C23/06 E01C23/07 E01C23/10 E01C23/14 E01C7/06 E01C7/18 E01C7/26 E01C7/35 E01C7/36 E01D19/08 E01D22/00 E02D E02D31/06 E04B1/66 G21K5/02 H05B3/00 H05B6/48 H05B6/54 H05B6/62 H05B6/80 (Advanced/Invention); E01C (Subclass/Invention)

CPC: E01C19/23 E01C7/36 E01C23/07 E01C23/04 E01C11/16 H05B6/54 H05B6/62 E01C23/10 C09D195/005 C09D123/22 G21K5/02 E01C21/00 C10C3/002 C10C3/10 H05B6/80 C08L2555/34 E01C23/065 E01C19/002 H05B6/48 C08L21/00 B29C63/02 B29K2021/003 B29L2031/732 B32B37/12 B32B37/16 B32B2037/1253 B32B2310/0806 B32B2315/06 B32B2419/00 C08L95/005 C09J195/005 E01C7/187 E01C7/358 E01C11/005 E01C19/15 E01C23/03 E01C23/06 E01C23/14 E02D31/06 B32B5/02 B32B7/12 B32B18/00 B32B2255/26 B32B2272/00 C08L2205/03 C08L2555/84 C08L2555/86 C09D119/003 C09J119/003 E01C7/26 E01C19/48 E01C19/4853 E01C2301/10 E01D19/08 E01D22/00 E04B1/66 C08L95/00 C09D195/00



Family:

Publication number	Publication date	Application number	Application date
AU2014236739 AA	20150924	AU20140236739	20140313
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AU2017201127 BA	20170316	AU20170201127	20170220
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HK1251630 A1	20190201	HK20180111106	20160720
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US9057163 BA	20150616	US20140373889	20140313
US9074328 BA	20150707	US20150629872	20150224
US9127413 BB	20150908	US20150629278	20150223
US9169606 BB	20151027	US20150629375	20150223
US9347187 BB	20160524	US20150702610	20150501
US9481967 BB	20161101	US20150732296	20150605
US9551114 BB	20170124	US20160148998	20160506
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US9637870 BA	20170502	US20170428088	20170208
US10081920 BB	20180925	US20160280945	20160929
US10364534 BB	20190730	US20170490434	20170418
WO14151973 A1	20140925	WO2014US26755	20140313

Priority:

US20130842640	20130315	US20130794751P	20130315	US20130798090P	20130315
US20130799515P	20130315	US20130799576P	20130315	US20130798469P	20130315
AU20140236739	20140313	EP20140770592	20140313	US20140373889	20140313
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US20190442320	20190614				

Probable Assignee: COE WILLIAM**Assignee(s):** (std): COE WILLIAM ; COE WILLIAM B ; WILLIAM B COE**Assignee(s):** COE WILLIAM B WRIGHTWOOD**Inventor(s):** (std): COE WILLIAM B ; WILLIAM B COE**Inventor(s):** COE WILLIAM B WRIGHTWOOD**Agent(s):** FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; STOLMAR AND PARTNER PATENTANWAELE PARTG MBB; SECERNA LLP; ELZABURU SLP
ELZABURU SLP; SPRUSON AND FERGUSON HONG KONG LTD; KNOBBE MARTENS OLSON AND BEAR LLP; ALTMAN DANIEL E**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

Title: Interleaving spatially dichotomized polyhedral building blocks and extensions

Abstract: The invention is a system and set of interleaving (interfitting and adhering/clinging) toy or real construction elements which may be implemented either directly in a physical form or indirectly in a virtual reality which is physically provided for by the hardware of a general purpose or dedicated computer system. These construction elements may be used, as structural elements, construction components, building blocks, modeling elements, or the like. Each of these discrete structural elements (10, 20, 70) is comprised of a plurality of pyramids (12, 22), or other polyhedral members, clustered around at least one central point in such a manner that the resulting cluster or clusters form a discrete structural element. The polyhedral members may be joined at least partially along coincident edges (18, 28) for maintaining the structural stability of the element (10, 20, 70). A portion of the joining coincident edges (18, 28) of the polyhedral members are slotted or not completely joined ("difurcated") on the outer half of the joining edge to facilitate interfitting of a first element (10, 20, 70) with a second element (10, 20, 70). Accordingly, each element (10, 20, 70) of the invention has the ability to be interfitted with other complimentary elements (10, 20, 70) in a mutually interfitting and adhering manner along the coincident edges (18, 28) of sets of diagonally adjacent polyhedral members which have been difurcated along an outermost portion of their coincident edges which radiate from their coincident central point. These generally polyhedral construction elements may also be projected/truncated into the form of spheres or other ellipsoidal construction elements while retaining their interleaving properties and individual characteristics as defined by their underlying polyhedron-based definitions.

Classifications:

International (IPC 8-9): A63H33/08 (Advanced/Invention);

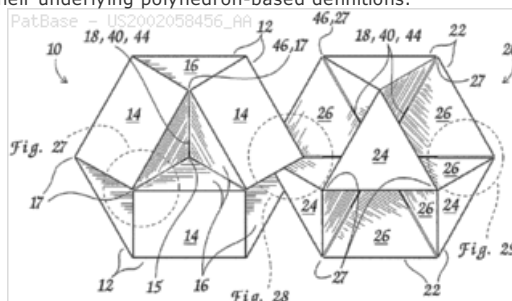
A63H33/04 (Core/Invention)

International (IPC 1-7): A63H33/04

CPC: A63H33/084

European: A63H33/08G

US: 124/487 446/487 446/85 446/85P



Family:

Publication number	Publication date	Application number	Application date
US2002058456 AA	20020516	US20020046118	20020115
US6379212 BA	20020430	US19990266010	19990311
US6921314 BB	20050726	US20020046118	20020115

Priority:

US19980077908P 19980313

US20010318828P 20010914

US19980092842P 19980714

US20020046118 20020115

US19990266010 19990311

Probable Assignee:

MILLER GEORGE R

Assignee(s):

MILLER GEORGE R

Inventor(s): (std):

MILLER GEORGE R

15) Family number: 33211908 (US2006123724A)

© PatBase

Title: DEVICE AND METHOD TO PROVIDE AIR CIRCULATION SPACE PROXIMATE TO INSULATION MATERIAL

Abstract: A spacer device is provided including (1) a body having a plurality of openings defining an openwork, to allow the passage of air therethrough when placed in contact with insulation material, and (2) a plurality of spacer struts fixedly attached to the body. The struts are configured to maintain a predetermined distance between a first side of the insulation material and a building surface. The body and struts act together to define and maintain a space between the first side of the insulation material and the building surface, for example, for ventilation. The building surface can be the bottom face of a roof, an attic floor, wall sheathing or a soundproofed demising wall, for example. The spacer device can be capable of being transported and stored together with, or as a separate item from, the insulation material, and can also be stored in nested layers. The device can also be stored in rolled form. The openwork of the device can additionally or alternatively include a sheet of entangled net filaments.

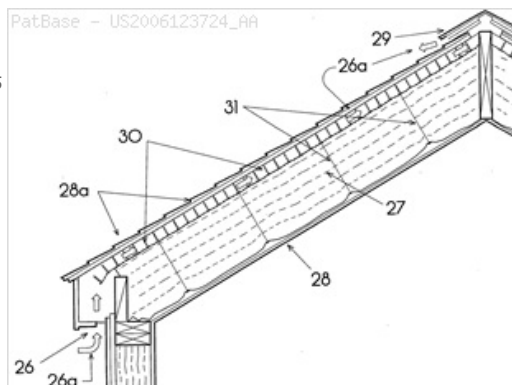
Classifications:

International (IPC 8-9): A47B96/06 A47F5/00 A47F5/08 B22C9/00 B22D25/02 B23P17/00 B28B7/34 B29C33/38 B29C33/40 B29C39/02 B29C71/00 B29C71/04 C25B9/00 D04H1/4266 D04H1/435 D04H1/55 D04H1/558 D04H11/00 E01C19/22 E01C5/00 E02D19/00 E04B1/66 E04B1/70 E04B1/74 E04B1/76 E04B2/56 E04B2/74 E04B7/00 E04B9/00 E04B9/02 E04B9/06 E04B9/22 E04C2/20 E04D12/00 E04D13/16 E04D13/17 E04F13/14 E04F17/00 E04F17/02 E04F17/04 E04H7/22 E06C7/14 F04B15/06 F04B17/03 F04B19/00 F04B35/04 F04C13/00 F16M11/00 F24F13/02 (Advanced/Invention); E04B1/76 E04B1/88 E04B2/74 (Advanced/Non-invention); A47B96/06 A47F5/00 A47F5/08 B23P17/00 E01C19/22 E02D19/00 E04B1/66 E04B1/70 E04B1/74 E04B7/00 E04B9/00 E04B9/02 E04B9/06 E04B9/22 E04F17/00 E04H7/00 F04B15/00 F04B19/00 F04C13/00 F16M11/00 (Core/Invention)

CPC: A47K1/09 A47K3/003 A47K5/04 A47K10/04 A47K10/38 A47K17/022 A47K2201/00 A47K2201/02 E04F13/142 B29C33/424 B22C9/00 B29C33/3842 B29C33/405 B29C39/006 B29L2031/756 B81C99/0085 B81C99/009 B82Y10/00 B82Y40/00 G03F7/0002 G03F7/0017 E04F13/14 D04H11/00 F24F2005/0082 E01C5/06 E01C2201/12 E01C5/00 D04H1/4266 D04H1/4274 D04H1/435 D04H1/54 D04H1/55 D04H1/558 E04B1/7069 E04B1/88 Y10T428/23929 F04B17/044 F04C2/063 F04C15/0069 F24F13/02 E01C9/001 B28B3/20 B28B11/003 Y10T29/4998 E04F13/007 F24F5/0075 Y02A30/26 Y02B30/92 E04B1/7076 E04B1/74 E04B1/7662 E04B2/7409 E04B2/7457 E04B2002/7488 E04D12/002 E04B1/7612 E04B2/00 E04B7/00 E04D13/1625 E04D13/17 E04D13/172 E04F17/00 E04F17/02 E04F17/04

European: A47K1/09 A47K10/04 A47K10/38 A47K17/02B A47K3/00B2 A47K5/04 B22C9/00 B28B11/00E B29C33/38M B29C33/40B B29C33/42C B29C39/00B2 B81C99/00R4 B81C99/00R6 B82Y10/00 B82Y40/00 E01C9/00B E04B1/74 E04B1/76C1 E04B1/76E2B E04B2/74C2 E04B2/74C5C E04D12/00B E04D13/16A1C E04D13/17 E04D13/17A E04F13/00B E04F13/14D E04F17/00 E04F17/02 E04F17/04 F04B17/04B2 F04C15/00E2D F04C2/063 F24F5/00K G03F7/00A G03F7/00E K47K201/00 K47K201/02 L28B3/20 L29L31/756 P04B2/74C2 P04B2/74R Y02B30/92

US: 1/1 164/15 164/15S 164/6 164/6S 204/275.1 204/275.100S 211/105.1 211/88.04 248/201 248/205.1 248/205.3 248/210 248/210P 248/251 248/309.1 264/101 264/101S 264/219 264/219S 264/405 264/405S 264/483 264/483P 29/527.1 310/15 310/80 404/118 404/34 404/41 404/73 417/374 417/410.1 417/410.100P 417/420 428/88 52/169.4 52/198 52/198S 52/22 52/22P 52/302.1 52/302.100 52/302.100P 52/302.2 52/302.3 52/302.300S 52/302.6 52/309.1 52/309.100S 52/404.3 52/404.300P 52/588.1 52/741.4 52/741.400P 52/742.1 52/745.06 52/745.060S 52/745.09 52/745.090S 52/95



Family:

Publication number	Publication date	Application number	Application date
US2006123724 AA	20060615	US20050203354	20050812
US2006180722 AA	20060817	US20060348181	20060206
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Priority:

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Probable Assignee: HETTRICH HANSL LLC**Assignee(s):** (std): CANNON ANDREW H ; HETTRICH HANSL LLC ; KING WILLIAM P ; POLLACK ROBERT W ; UNIV ILLINOIS ; POLLACK ROBERT WILLIAM ; POLLACK ROBERT**Assignee(s):** WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; BOARD OF TRUSTEES OF UNIV OF ILLINOIS ; THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS ; POLLACK DONNA M ; POLLACK DONNA**Inventor(s):** (std): POLLACK ROBERT WILLIAM ; KING WILLIAM P ; CANNON ANDREW H ; POLLACK ROBERT ; POLLACK ROBERT W**Agent(s):** MILDE AND HOFFBERG LLP; EDWARDS ANGELL PALMER AND DODGE LLP; BRIAN R; DAY PITNEY LLP; BROOKS WILLIAM L ET AL; POLLACK BRIAN R; GIANOLA ADAM J 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 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 TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**16) Family number: 30722922** (US2004134154A)

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Title: INTERLOCKING BUILDING BLOCK

Abstract: The present building block has at least one inner core, a secondary or end core portion, and an interlock protruding from one face and forming a portion of the periphery of at least one of the inner cores. When placed end to end and at the same level, building blocks of the present invention form a secondary core or seat for reception of the interlock. When a first row of building blocks placed end to end is staggered relative to a second row of building blocks placed end to end, the interlocks of one row of building blocks mate with the secondary or end core portions or relatively large inner cores of the other row of building blocks such that neighboring rows of building block interlock. The basic building block has ends

that are oblique such that rows having a preset radius can be formed or such that a linear row can be formed by placing one block front-to-back and an adjacent building block back-to-front. Disclosed are angle blocks with and without splitter wedges, stretcher blocks with and without splitter wedges, blocks for forming corners and posts, cap blocks, and blocks for capping posts.

Classifications:

International (IPC 8-9): E02D29/02 E04B2/02 E04B2/46 E04C E04C1/00 E04C1/39 E04C2/04 (Advanced/Invention); E04B2/02 (Advanced/Non-invention); E02D29/02 E04B2/02 E04C1/00 E04C2/04 (Core/Invention); E04B2/02 (Core/Non-invention); E04C (Subclass/Invention)

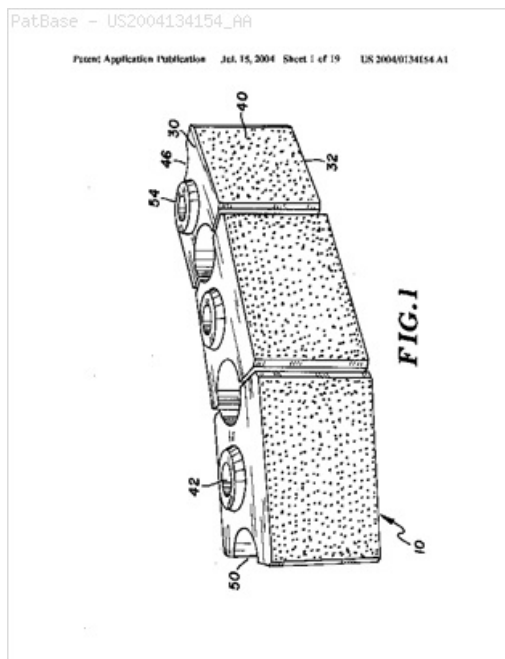
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CPC: E04B2002/0221 E04B2002/026 E04B2002/0263 E04C1/395

European: E04C1/39B P04B2/02M1E3 P04B2/02N2 P04B2/02N3

US: 402/284 405/284 52/561 52/592.5 52/592.6 52/596 52/604

52/605 52/606 52/608 52/98



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Inventor(s): TIMOTHY A BOTT A ; BOTT TIMOTHY

Agent(s): GRIFFITH HACK; RIDOUT AND MAYBEE LLP; PATENTANWAELE HENKEL BREUER AND PARTNER; JOHNSTONE HELEN MARGARET; URIZAR JOSE ANTONIO; CLT PATENT AND TRADEMARK HK LTD UNIT 10 34 F OFFICE TOWER CONVENTION; CLT PATENT AND TRADEMARK HK LTD; INTELLECTUAL PROPERTY GROUP FREDRIKSON AND BYRON PA; FREDRIKSON AND BYRON PA

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

Title: WALL ASSEMBLY

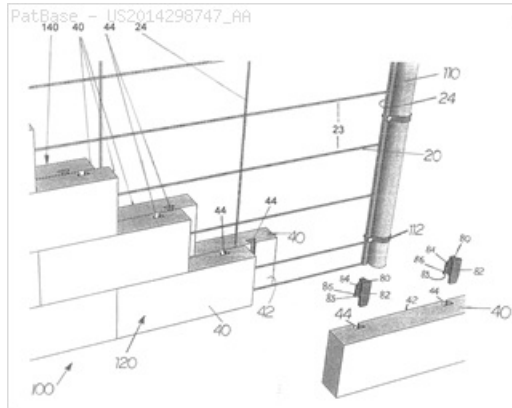
Abstract: Disclosed is a wall assembly including preformed building blocks and a trellis type support member for maintaining the building blocks in place in the desired orientation. The wall assembly further includes at least one support for holding the trellis upright. The individual blocks are connected to the supporting trellis for added stability. Although not every block in the wall need be connected to the trellis support member in order to achieve the desired added stability, it is preferred to connect each block in the wall to the trellis. Connectors are provided for connecting the blocks to the trellis. Each block preferably is connected to the trellis by at least one connector, most preferably by a pair of connectors. To accommodate relative movement or shifting of the blocks during installation and in situ, the connectors are preferably movably connected to the trellis or the block, or both.

Classifications:

International (IPC 8-9): E01F8/02 E02D29/02 E04B2/02 E04B2/44 E04C1/00 E04C1/39 E04F13/08 (Advanced/Invention); E04B2/02 (Advanced/Non-invention)

CPC: E04B2002/0234 E04C1/395 E02D29/02 E04B2/44

US: 1/1 52/562

**Family:**

Publication number	Publication date	Application number	Application date
CA2901433 AA	20150814	CA20142901433	20140224
EP2959065 A1	20151230	EP20140754912	20140224
EP2959065 A4	20161214	EP20140754912	20140224
MX2015010891 A1	20151203	MX20150010891	20140224
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WO14127486 A1	20140828	WO2014CA50129	20140224

Priority:

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Probable Assignee: LES MATERIAUX DE CONSTRUCTION OLDCASTLE CANADA INC

Assignee(s): (std): LES MATERIAUX DE CONSTRUCTION OLDCASTLE CANADA INC ; MATERIAUX DE CONSTRUCTION OLDCASTLE CANADA INC

Assignee(s): PENTERMAN JOHN ; REMILLARD JOEL ; CASTONGUAY BERTIN ; DECLOS ROBERT

Inventor(s): (std): CASTONGUAY BERTIN ; DECLOS ROBERT ; REMILLARD JOEL ; PENTERMAN JOHN

Agent(s): BORDEN LADNER GERVAIS LLP; ZINKLER FRANZ; ALLARD LOUIS B; VICKERS MARK F 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 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