

PatBase - Search results 11 September 2019
Search query (2): [SP]: self-aligning interlocking construction blocks a self-aligning block system is disclosed having a series of block formations wherein the blocks comprise predefined polygonal shaped channels for insertion of a uniformly shaped polygonal peg. insertion of a peg between adjacent channels will drive uneven blocks into alignment and hold the blocks without the need of mortar. walls may be created by end-to-end stacking of linear blocks and half blocks in staggered or parallel columns to create internal walls and corners within a wall by addition of corner blocks and half blocks without offsetting the progression of the outer wall. addition of half blocks into wall progression may be implemented to reset the progression of inner and outer walls after corner formation.
Results: 14

1) Family number: 22566051 (US3292331A) © PatBase

Title: INTERLOCKING BLOCKS AND WALL CONSTRUCTION

Abstract: (Claim 1) What I claim is: A wall construction for buildings comprising, a Plurality of preformed blocks, each block having a-central, vertically disposed passage.

Classifications:

International (IPC 8-9): E04B2/10 E04B2/18 (Advanced/Invention);

E04B2/02 (Advanced/Non-invention);

E04B2/04 E04B2/14 (Core/Invention);

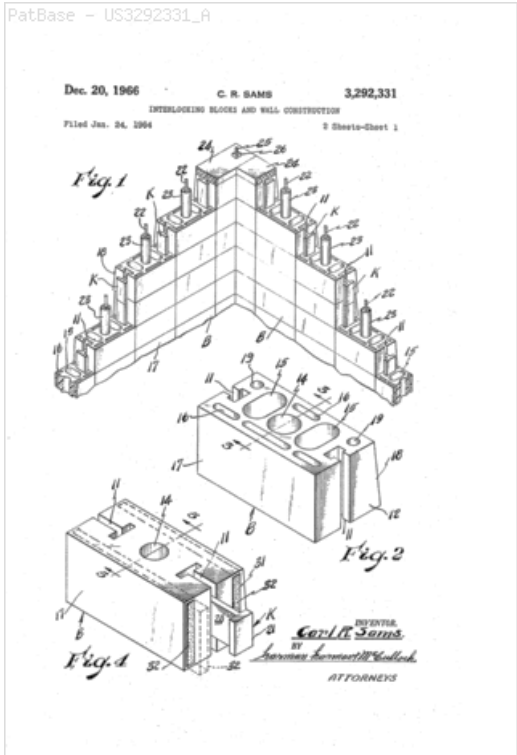
E04B2/02 (Core/Non-invention)

International (IPC 1-7): E04B1/10 E04B2/52

CPC: E04B2/10 E04B2/18 E04B2002/0252

European: E04B2/10 E04B2/18 P04B2/02M3D

US: 52/300 52/309.12 52/309.15 52/405.2 52/439



Family:

Publication number	Publication date	Application number	Application date
US3292331 A	19661220	US19640339948	19640124

Priority:

US19640339948 19640124

Probable Assignee:

SAMS CARL R

Assignee(s): (std):

SAMS CARL R

Inventor(s): (std):

SAMS CARL R

2) Family number: 812141 (US3368317A) © PatBase

Title: Construction block support

Abstract: (Claim 1) 1. A construction block having a bottom surface, comprising: a plurality of recessed slots located on the bottom surface, a plurality of insert means, individual ones of said insert means being mounted in individual ones of said recessed slots, each of said insert means including rotatable support members mounted in said insert means and extending above the surface of said construction block when in a fully upright position 15 for supporting said construction block, said insert means further including locking means for securing said support member in said fully upright position.

Classifications:

International (IPC 8-9): E04B2/26 (Advanced/Invention);

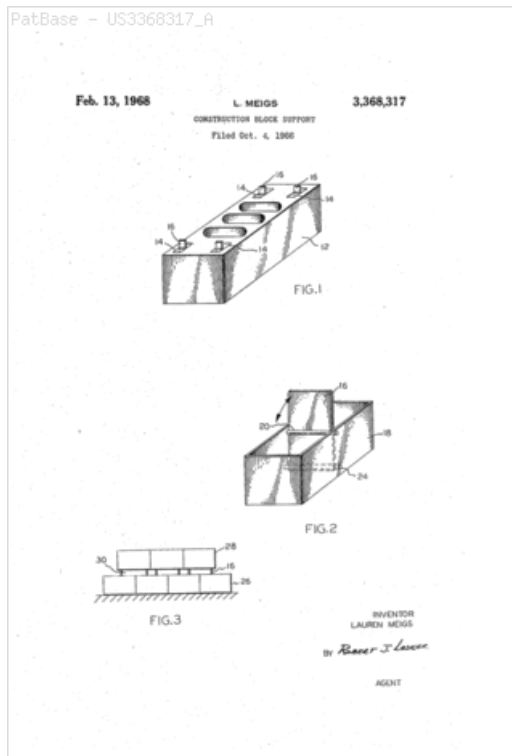
E04B2/14 (Core/Invention)

International (IPC 1-7): E04C1/04

CPC: E04B2/26

European: E04B2/26

US: 52/126.1 52/127.3 52/603 52/677 526/30

**Family:**

Publication number	Publication date	Application number	Application date
US3368317 A	19680213	US19660584123	19661004

Priority:

US19660584123 19661004

Probable Assignee:

LAUREN MEIGS

Assignee(s):

LAUREN MEIGS

Inventor(s): (std):

LAUREN MEIGS ; MEIGS LAUREN

3) Family number: 2586176 (US4782640A)

© PatBase

Title: Structural assembly for producing interconnected structures

Abstract: A structural assembly includes a square trough-shaped stone having inclined external corner regions and a dovetailed groove formed in each wall side. The dovetail tongue of a connecting plate fits into the dovetailed groove. At the lower end of the internal surface of each wall of the stone, a shoulder portion may be provided for accommodating base elements. The height of the connecting plate is advantageously greater than the height of the trough-shaped stone, so that the plate projects beyond the stone in a vertical direction for connection to further stones. With such an assembly, it is possible to erect dry-stone type walls of various types. The individual elements of the assembly can be produced rationally and economically, and it is also possible to produce end elements and corner elements from the trough-shaped stones by cleaving the stones along grooves provided for such purpose.

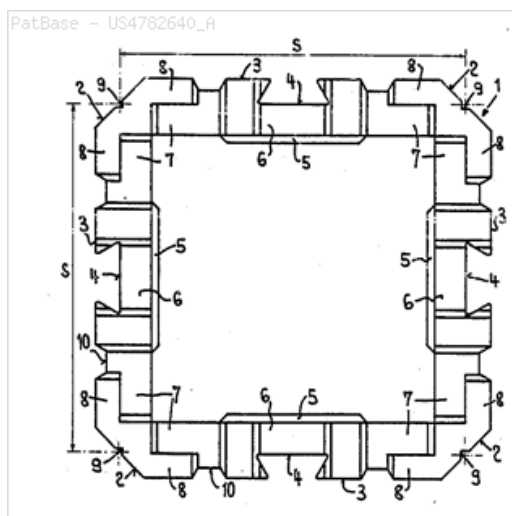
Classifications:**International (IPC 8-9):** E01F8/02 E02D29/02 E02D5/00

E04C1/39 (Advanced/Invention);

E04B2/02 (Advanced/Non-invention);

E01F8/02 E02D29/02 E04C1/00 (Core/Invention);

E04B2/02 (Core/Non-invention)

International (IPC 1-7): E01F8/00 E02D17/20 E02D5/00 E04C1/00 E04C1/10 E04C1/39**CPC:** E01F8/023 E02D29/025 E04B2002/0252 E04C1/395**European:** E01F8/02A4 E02D29/02E E04C1/39B P04B2/02M3D**US:** 52/586 52/591.1

DK162403 C	19920323	DK19860004197	19860902
DK419786 A	19870327	DK19860004197	19860902
DK419786 A0	19860902	DK19860004197	19860902
EP0215994 A1	19870401	EP19850810442	19850926
EP0215994 B1	19890222	EP19850810442	19850926
FI81869 B	19900831	FI19860003736	19860915
FI81869 C	19901210	FI19860003736	19860915
FI863736 A	19870327	FI19860003736	19860915
FI863736 A0	19860915	FI19860003736	19860915
NO863826 A	19870327	NO19860003826	19860925
NO863826 A0	19860925	NO19860003826	19860925
NO863826 L	19870327	NO19860003826	19860925
US4782640 A	19881108	US19860905407	19860910

Priority:

EP19850810442 19850926 CA19860518933 19860925

Probable Assignee:

SCHEIWILLER ROLF

Assignee(s): (std):

SCHEIWILLER ROLF

Inventor(s): (std):

SCHEIWILLER ROLF

Agent(s):

FETHERSTONHAUGH AND CO

Designated states:

AT BE CH DE FR GB IT LI LU NL SE

4) Family number: 62233224 (US2016123004A)

© PatBase

Title: SELF-ALIGNING INTERLOCKING CONSTRUCTION BLOCKS

Abstract: A self-aligning block system is disclosed having a series of block formations wherein the blocks comprise predefined polygonal shaped channels for insertion of a uniformly shaped polygonal peg. Insertion of a peg between adjacent channels will drive uneven blocks into alignment and hold the blocks without the need of mortar. Walls may be created by end-to-end stacking of linear blocks and half blocks in staggered or parallel columns to create internal walls and corners within a wall by addition of corner blocks and half blocks without offsetting the progression of the outer wall. Addition of half blocks into wall progression may be implemented to reset the progression of inner and outer walls after corner formation.

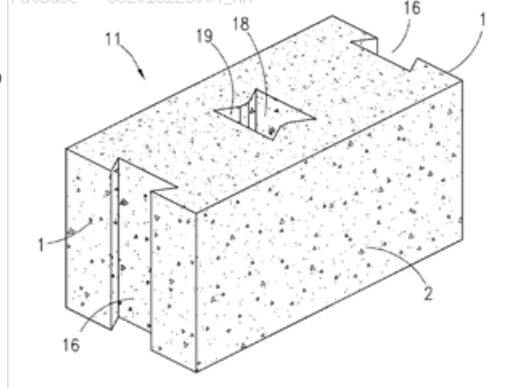
Classifications:

International (IPC 8-9): E04B1/00 E04B2/02 E04B2/08 E04B2/10 E04B2/84 E04C1/00 E04C1/39 (Advanced/Invention)

CPC: E04B2/10 E04C1/00 E04B2/02 E04B2002/0245 E04B2002/0252 E04B2002/0247 E04B2/18 E04B2002/0234 E04B2002/0263 E04C1/39 E04B2/84 E04B2002/0204 E04B2002/0254 E04B2/08

US: 1/1 52/286 52/503 52/605 52/745.09

PatBase - US2016123004_AA



Family:

Publication number	Publication date	Application number	Application date
US2016123004 AA	20160505	US20150931762	20151103
US2016340898 AA	20161124	US20160228136	20160804
US9528263 BB	20161227	US20150931762	20151103

Priority:

US20140074419P 20141103 US20150931762 20151103 US20160228136 20160804

Probable Assignee:

LIGHTFOOT THOMAS K

Assignee(s): (std):

LIGHTFOOT THOMAS K

Inventor(s): (std):

LIGHTFOOT THOMAS K

5) Family number: 7126279 (US3479782A)

© PatBase

Title: CONSTRUCTION BLOCK

Abstract: ABSTRACT OF THE DISCLOSURE

A construction block of a len.-th approximately three times its width and hei.-ht, definin.- centrally located holes in each third thereof along its length. Sleeves ai-e provided to slide in the holes of the block so that several of the blocks may be properly positioned and aligned upon one another by inserting the holes of the blocks of adjacent courses of blocks over one another, about th.e sleeves. The wall formed by the blocks and sleeves is permanently set into position by pourin.- mortar thrclu_-h the aligned holes of the blocks and sleeves. B

Classifications:

International (IPC 8-9): E04B2/14 E04B2/18 E04B2/26 E04B2/44 E04B2/46 E04B2/52 E04F13/00 E04F13/08

E06B9/52 (Advanced/Invention);

E04B2/02 F16B19/00 (Advanced/Non-invention);

E04B2/14 E04B2/42 E04F13/00 E04F13/08 E06B9/52 (Core/Invention);

E04B2/02 F16B19/00 (Core/Non-invention)

International (IPC 1-7): E04B1/48 E04B2/00 E04B2/10 E04B2/16 E04B2/44 E04B2/46 E04B5/46 E04C1/04 E04C1/08 E04C1/10

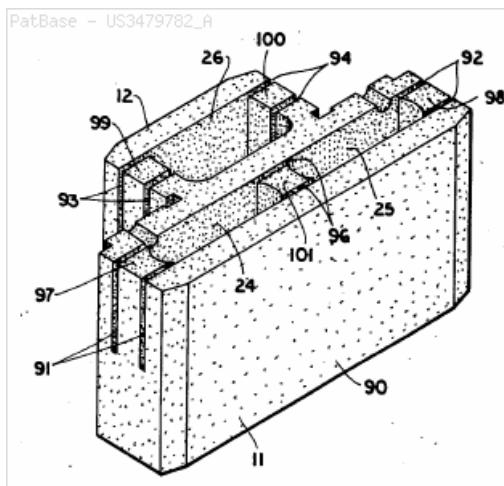
E04C1/16 E04C1/30

CPC: E04B2/26 E04B2/14 Y10S52/02 E04F13/0835 E04B2/44
E04B2002/0243 E04B2002/025 E04F13/002 E06B9/52 F16B19/004
E04B2/18 E04B2/46 E04B2/52 E04B2002/0245

European: E04B2/14 E04B2/18 E04B2/26 E04B2/44 E04B2/46
E04B2/52 E04F13/00A E04F13/08B3A2 E04F13/08B3A2B E04F13/20
E06B9/52 P04B2/02M3 P04B2/02M3A P04B2/02M3C R16B19/00A2

US: 52/100 52/206 52/213 52/259 52/306 52/309.12 52/405.2
52/438 52/439 52/503 52/564 52/568 52/574 52/58.5 52/585
52/585.1 52/596 52/604 52/609 52/611 52/761 52/779 52/DIG.2
524/380 525/850 526/40 D25/116 D25/117

PatBase - US3479782_A



Family:

Publication number	Publication date	Application number	Application date
US3479782 A	19691125	US19670658524	19670804
US3609926 A	19711005	US19690802450	19690226
US3693307 A	19720926	US19700083939	19701026
US3780484 A	19731225	US19710155946	19710623
US3864885 A	19750211	US19700000252	19700102
US3998022 A	19761221	US19750548385	19750210
US4123881 A	19781107	US19760749784	19761213

Priority:

US19670658524 19670804	US19680730727 19680521	US19690802450 19690226
US19700000252 19700102	US19700083939 19701026	US19710155946 19710623
US19740462376 19740419	US19750548385 19750210	

Probable Assignee: GEORGE B MUSE

Assignee(s): (std): GEORGE B MUSE ; MUSE G ; MUSE GEORGE B

Assignee(s): MUSE G US

Inventor(s): (std): MUSE G ; MUSE GEORGE B

Inventor(s): MUSE G US ; GEORGE B MUSE

6) Family number: 14962330 (US6189282B)

© PatBase

Title: Mortarless concrete block

Abstract: The present invention is directed to a block system including first and second blocks. Each block has an outer surface with a pair of locking channels formed within the outer surface. The locking channels are spaced apart from each other. Each locking channel has a narrower outer slot portion extending through the outer surface and a wider inner slot portion extending from the outer slot portion into its respective block. A first pair of locking members are provided for coupling the blocks together by insertion into the locking channels of the first block being positioned to join with the locking channels of the second block. The locking members have a cross-section with wider outer edges dimensioned to fit in the inner slot portions and a narrower mid-section dimensioned to fit in the outer slot portions.

Classifications:

International (IPC 8-9): E04B2/14 (Advanced/Invention);
E04B2/02 (Advanced/Non-invention);
E04B2/14 (Core/Invention);
E04B2/02 (Core/Non-invention)

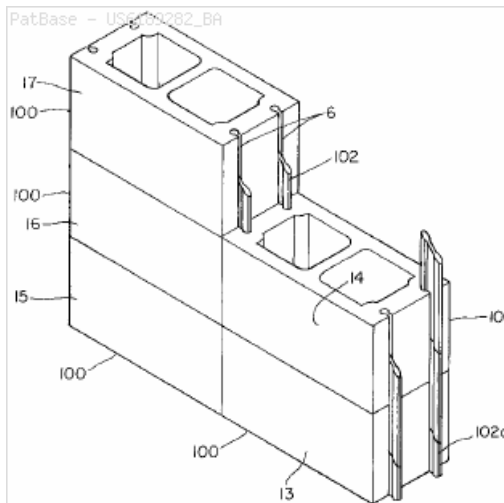
International (IPC 1-7): E04B2/00

CPC: E04B2/14 E04B2002/0247 E04B2002/0252

European: E04B2/14 P04B2/02M3B P04B2/02M3D

US: 52/582.1 52/585.1 52/586.1 52/586.2 52/605

PatBase - US6189282_BA



Family:

Publication number	Publication date	Application number	Application date
US6189282 BA	20010220	US19990227250	19990108

Priority:

US19980090438P 19980624	US19980099144P 19980904	US19990227250 19990108
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Probable Assignee: BUILDING WORKS INC

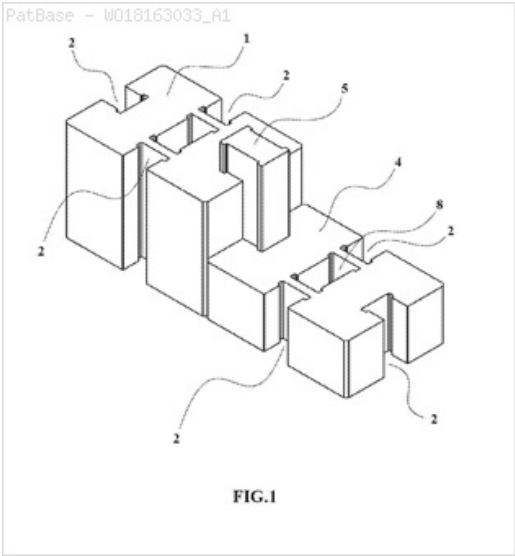
7) Family number: 71154385 (WO18163033A1)

© PatBase

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



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 ; UNIVERISDAD DE MEDELLIN ; SEGUROS GENERALES SURAMERICANA S A ; UNIV EAFIT ; UNIV DE MEDELLIN ; SURAMERICANA S A

Assignee(s): SURAMERICANA SA ; UNIVERSIDAD EAFIT ; UNIVERSIDAD DE MEDELLIN ; LADRILLERA SAN CRISTOBAL SA ; SEGUROS GENERALES SURAMERICANA SA

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

8) Family number: 11655463 (US5930958A)

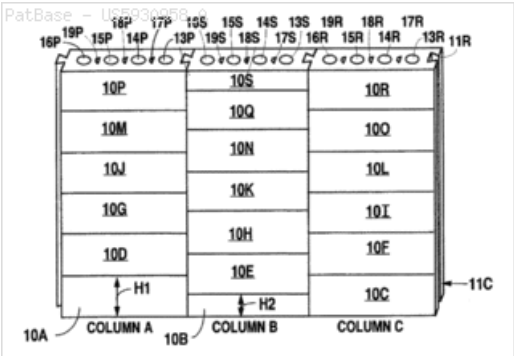
© PatBase

Title: Insulated concrete form system

Abstract: An insulated concrete form system for constructing the walls of a structure including a multiplicity of insulated concrete form units. Each insulated concrete form unit includes a body, a tenon and a mortise positioned at opposing ends of the body, and at least one opening extending substantially vertically through the body. Each insulated concrete form unit may further include at least one cavity extending through the body for receiving concrete. Each insulated concrete form unit is stacked vertically on one another to form a column. Thus, an insulated form system features a series of adjacent columns that are joined together to form the walls of a desired structure. In particular, adjacent columns are joined by offsetting the vertical height of one column relative to an adjoining column. Accordingly, each mortise and tenon from one insulated concrete form unit of one column joins in an offset manner with the mortises and tenons of at least two concrete form units from an adjacent column.

Classifications:
International (IPC 8-9): E04B2/18 E04B2/86 E04C1/40 (Advanced/Invention); E04B2/02 (Advanced/Non-invention)
International (IPC 1-7): E04B2/86 E04C1/00 E04G21/14
CPC: E04B2/18 E04B2/8629 E04B2002/0234 E04B2002/0252 E04B2002/0263 E04C1/40
European: E04B2/18 E04B2/86F1 E04C1/40 P04B2/02M2A P04B2/02M3D P04B2/02N3

US: 52/284 52/439 52/590.2 52/592.3 52/606 52/745.1 52/747.1 52/98



Family:

Publication number	Publication date	Application number	Application date
US5930958 A	19990803	US19970915291	19970820

Priority:

US19970915291 19970820

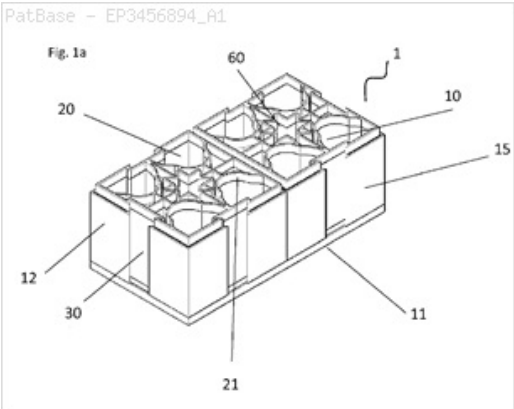
Probable Assignee: STARFOAM MFG INC
Assignee(s): (std): STARFOAM MANUFACTURING INC
Assignee(s): STARFOAM MFG ; STARFOAM MFG INC
Inventor(s): (std): STANLEY ELMER GENE

9) Family number: 73575568 (EP3456894A1) © PatBase

Title: BUILDING BLOCK BLOC DE CO

Abstract: A building block is described for use in the construction of building structures such as walls, more in particular a building block for use in the building of housing, such as temporary or emergency housing or weirs, dams as well as to the building structures such as walls, more in particular housing, such as temporary or emergency housing or weirs, dams themselves. The invention also relates to a method for use in same, e.g. to make a wall. The block has interconnecting means in at least one side surface of the building block for interconnecting the block adjacent to its side surface, with the interconnecting means of a similar block by use of a first complementary element, wherein said interconnecting means comprise a groove and the first complementary element is slidable in a first dimension along the groove and has a two-dimensional form closure when installed in the groove.

Classifications:
International (IPC 8-9): E04B2/02 E04B2/18 (Advanced/Invention)
CPC: E04B2/18 E04B2002/0234 E04B2002/0247 E04B2002/0252 E04C1/397



Family:

Publication number	Publication date	Application number	Application date
EP3456894 A1	20190320	EP20180194218	20180913

Priority:

BE20170005652 20170913

Probable Assignee: N U D BVBA
Assignee(s): (std): N U D BVBA
Assignee(s): NUD BVBA
Inventor(s): (std): HELSKENS PETER GUSTAAF ; HELSKENS ALEXANDER JAN
Agent(s): IPLODGE BVBA
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

10) Family number: 1233689 (US3936987A) © PatBase

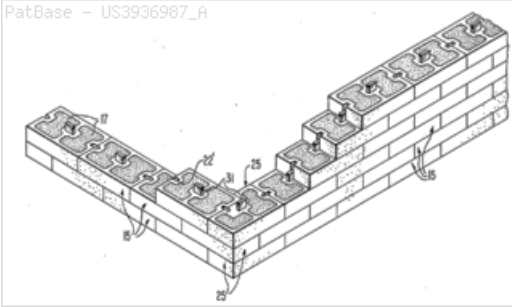
Title: Interlocking brick or building block and walls constructed therefrom

Abstract: A concrete block simulating a Norman brick is formed with two large cores separated by a central web. The cores are adapted to receive insulating foam during manufacturing of the block. Each block is grooved in its opposite ends and recessed in its central web for the reception of wedge elements or keys formed of plastic or the like. Adjacent blocks in each course are interlocked and the courses of walls constructed from the blocks in either a stacked bond or running bond are

mechanically interlocked and properly aligned. Epoxy cement is utilized for bonding of courses in a customized wall or in prefabricated panel sections utilizing the interlocking block.

Classifications:

International (IPC 8-9): E04B2/08 E04B2/32 E04C1/41
E04C2/04 (Advanced/Invention);
E04B2/02 (Advanced/Non-invention);
E04B2/04 E04B2/28 E04C1/00 E04C2/04 (Core/Invention);
E04B2/02 (Core/Non-invention)
International (IPC 1-7): E04B2/16 E04C1/10
CPC: E04B2/08 E04B2/32 E04B2002/0247 E04B2002/0293 E04C1/41
E04C2/041
European: E04B2/08 E04B2/32 E04C1/41 E04C2/04B P04B2/02M3B
P04B2/02N11B
US: 52/309 52/309.1 52/438



Family:

Publication number	Publication date	Application number	Application date
US3936987 A	19760210	US19750540339	19750113

Priority:

US19750540339 19750113

Probable Assignee: CALVIN EDWARD L
Assignee(s): (std): CALVIN EDWARD L
Inventor(s): (std): CALVIN EDWARD L

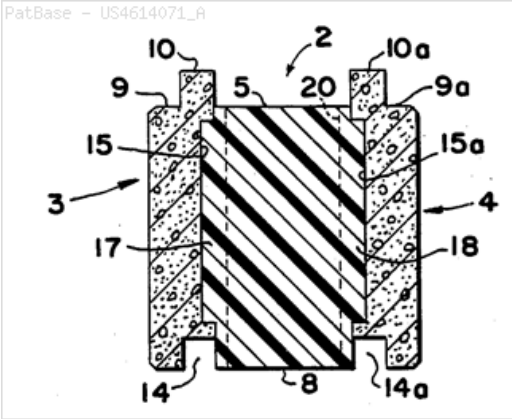
11) Family number: 3604735 (US4614071A) © PatBase

Title: Building blocks

Abstract: A building block having a six-sided body formed of rigid, foamed, resinous, fire retardant material is bonded on two opposite sides to concrete slabs. Parallel, spaced apart grooves are provided between the body and the slabs and extend along one side of the body and parallel, spaced apart projections are provided between the body and the slabs and extend along another side of the body. The grooves and the projections of each block are so located relatively to the grooves and projections of another block as to interfit with the latter, thereby enabling a wall of any desired length and height to be constructed by interfitting the blocks of each row and course with adjacent blocks. Each of the blocks has one or more openings therein through which a stabilizing and reinforcing member may extend, thereby enabling a wall to be constructed of such blocks without necessitating the use of mortar.

Classifications:

International (IPC 8-9): E04C1/41 (Advanced/Invention);
E04B2/02 (Advanced/Non-invention);
E04C1/00 (Core/Invention);
E04B2/02 (Core/Non-invention)
International (IPC 1-7): E04C1/04 E04C1/40
CPC: E04B2002/0206 E04B2002/0267 E04C1/41
European: E04C1/41 P04B2/02M1A P04B2/02N5
US: 52/309.12 52/405 52/405.4 52/591.4 52/592



Family:

Publication number	Publication date	Application number	Application date
CA1229994 A1	19871208	CA19840467409	19841108
US4614071 A	19860930	US19830552362	19831116

Priority:

US19830552362 19831116 CA19840467409 19841108

Probable Assignee: SAMS CARL R
Assignee(s): (std): SAMS CARL R ; STIVERS WILLIAM G
Inventor(s): (std): SAMS CARL R ; STIVERS WILLIAM G
Agent(s): MEREDITH AND FINLAYSON

12) Family number: 11564835 (US5901520A) © PatBase

Title: Interlocking building blocks

Abstract: Interlocking blocks are provided which are light in weight, and which may be assembled without use of mortar or other binding agent. Because the interlocking block is light in weight, it may be of a larger size than conventional blocks. Each interlocking block employs a number of projections and corresponding notches positioned and dimensioned to couple with adjacent interlocking block's projections and corresponding notches. A series of such interlocking blocks may then be assembled to form gravity retaining walls or any other rigid structures. The interlocking blocks are structurally strong enough to be used as form-work and may also be filled with insulating material, sound-proofing material, reinforcing material or any other advantageous material. The interlocking blocks may also be quickly assembled or disassembled in individualized constructions, may be pre-assembled into wall sections on or off a construction site.

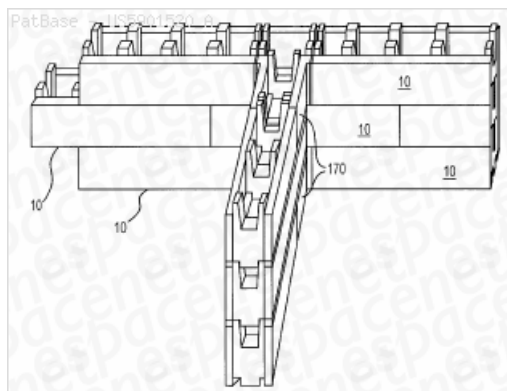
Classifications:**International (IPC 8-9):** E04B2/16 E04B2/26

E04C1/40 (Advanced/Invention);

E04B2/02 (Advanced/Non-invention);

E04B2/14 E04C1/00 (Core/Invention);

E04B2/02 (Core/Non-invention)

International (IPC 1-7): E04B2/00**CPC:** E04B2/16 E04B2/26 E04B2002/0208 E04C1/40**European:** E04B2/16 E04B2/26 E04C1/40 P04B2/02M1B**US:** 52/421 52/424 52/569 52/570 52/592.6 52/604 52/607 52/610 52/611**Family:**

Publication number	Publication date	Application number	Application date
US5901520 A	19990511	US19950500829	19950711

Priority:

US19950500829 19950711

Probable Assignee:

ABDUL BAKI ASSAD

Assignee(s): (std):

ABDUL BAKI ASSAD

Inventor(s): (std):

ABDUL BAKI ASSAD

13) Family number: 11277854 (US5241795A)

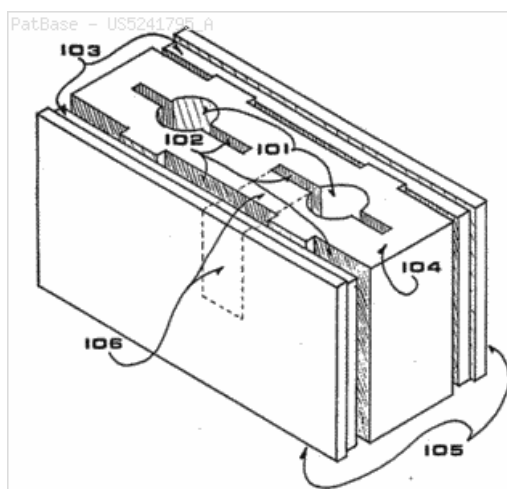
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Title: BUILDING MATERIALS MADE FROM WASTE AND UNUSUAL PROPERTIES THEREOF

Abstract: The invention relates to building materials made from paper sludge, repulped waste paper, or virgin paper pulp, mixed with clay and portland cement, or animal protein adhesives, or manufactured resins or polymers. Specifically the invention relates to a building system using this material in the form of building blocks that are glued together during assembly and are intended to be used for above grade exterior and interior walls. A block design which increases the R-value and other building products made of this material are covered in this invention. The material of this invention has unusual compression strength properties such that; when an imposed load limit is reached which begins to compress the material, the material does not break apart, but rather compresses slightly and allows considerably more load to be imposed without failure of the material to hold the superimposed load.

Classifications:**International (IPC 8-9):** E04C1/40 (Advanced/Invention);

E04C1/00 (Core/Invention)

International (IPC 1-7): E04B3/00**CPC:** Y10S52/09 E04C1/40**European:** E04C1/40**US:** 106/15.05 52/503 52/504 52/DIG.9**Family:**

Publication number	Publication date	Application number	Application date
US5241795 A	19930907	US19920851305	19920312

Priority:

US19920851305 19920312

Probable Assignee:

RING RESOURCES

Assignee(s): (std):

GIROUX FRANCIS A ; TELLIER ANDREW D

Assignee(s):

RING RESOURCES

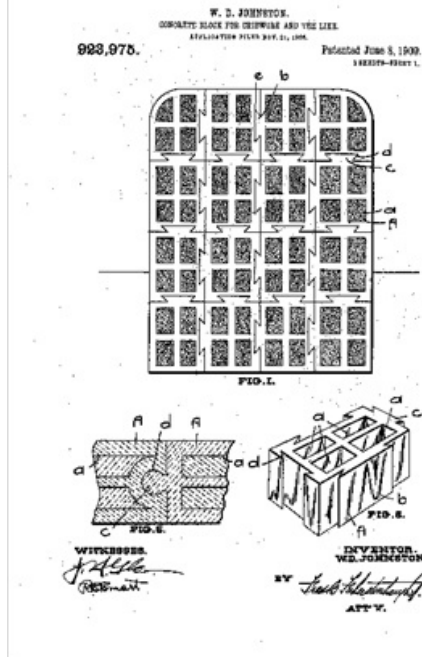
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14) Family number: 26780916 (US923975A)

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Title: CONCRETE BLOCK FOR CRIBWORK AND THE LIKE.**Classifications:****CPC:** E04B2/8629**US:** 405/14 405/21 52/439 52/590.1

**Family:**

Publication number	Publication date	Application number	Application date
US923975 A	19090608	US19080344509	19081121

Priority:

US19080344509 19081121

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