

Search history

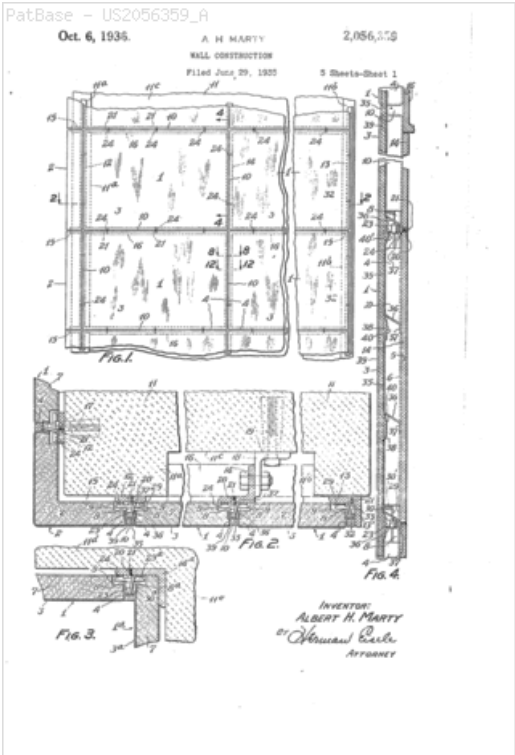
Search 1: FT=((build* OR assemble# OR structur*) NEAR system*) and PD<20140603 and IC=(E04B2* OR E04C2*) (Results 8404)
Search 2: 1 AND (FT = panel OR tab OR module#) (Results 5486)
Search 3: 1 AND (FT = panel OR slab OR module#) (Results 5749)
Search 4: 3 AND (FT = connect* OR join* OR fix* OR attach*) (Results 5607)
Search 5: 4 AND (FT = (aperture OR recess OR cavity) NEAR (tongue OR protrud*)) (Results 151)
Search 6: 5 AND (FT = polymer* OR *plastic* OR poly*) (Results 129)
Search 7: 6 AND (FT = frame OR link*) (Results 78)
Search 8: 7 AND (FT = wall) (Results 77)

Title: **WALL** CONSTRUCTION

Abstract: Source: US2056359A 1, A **wall** structure including a building **wall** comprising pilasters and recessed **walls** intermediate said pilasters, metallic bars fixedly mounted on the pilasters and metallic bars supported in spaced relation from the recessed **walls** between said pilasters, said bars forming rectangular open **panels**, the outer faces of said bars being substantially in the same plane, a plurality of tiles disposed on said bars. each of said tiles being substantially co-extensive with one of said **panels**, said tiles having front faces and side **walls**, recesses formed in said side **walls**, spaced screw means mounted in said bars, and means associated with said recesses and engaged by said screws means adapted to hold said tiles firmly in position against the faces of said bars. _

Classifications:

International (IPC 8-9): E04F13/08 (Advanced/Invention);
E04F13/08 (Core/Invention)
International (IPC 1-7): E04B2/60 E04B5/54 E04F13/12
CPC: E04F13/0814
European: E04F13/08B2C4
US: 52/442



Family:

Publication number	Publication date	Application number	Application date
US2056359 A	19361006	US19350028988	19350629

Priority:

US19350028988 19350629

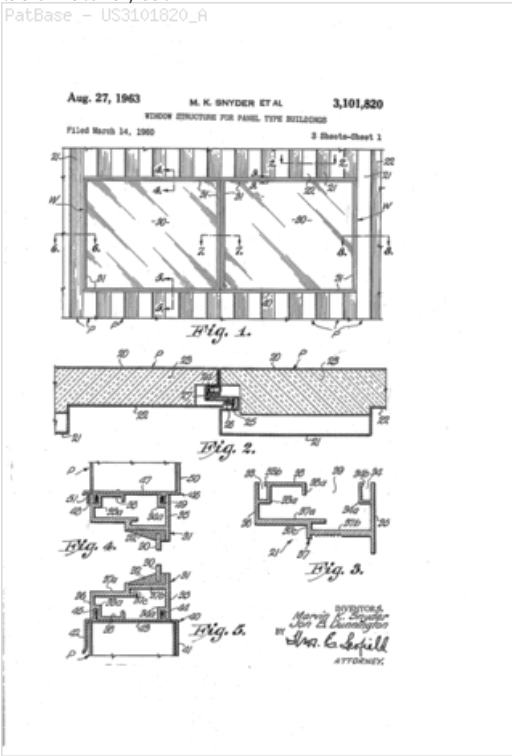
Probable Assignee: MARTY ALBERT H
Assignee(s): (std): MARTY ALBERT H
Inventor(s): (std): MARTY ALBERT H

Title: WINDOW STRUCTURE FOR **PANEL** TYPE BUILDINGS

Abstract: Source: US3101820A (Claim 1) 1. In a window-**wall** assembly, the combination of a which extends inwardly in the direction of the 'thick- 15 window structure, a **panel** disposed substantially in the ness of 'the **panel**. The inner edge of each horizontal same plane 'as 'the window structure and having a straight portion is provided with a somewhat thicker segment 173 edge, said window structure including a **frame** having a having formed therein a longitudinal groove. As shown portion forming an edge on the window structure adin FUG. 13, the grooves in the segments 173 confront **joining** said edge of said **panel**, said portion provided with one another. To **join** 'the adapter portions 170 together 20 a pair of parallel outwardly open grooves running lengtha strip 174 is oriented with its opposite edges in the re- wise of said portion and spaced from one 'another in spectve grooves. This strip runs the full length of the the direction of thickness of said window structure whereadapter assembly and serves the function of bridging the by to cause 'the open sides of said 'grooves to confront two adapters. By increasing or decreasing the width of the adjoining edge of said **panel**, an adapter member disstrip 174 the adapter assembly can be accommodated to 25 posed between said **panel** edge and said **frame** portion **panels** of varying thickness, as will be evident. having a pair of spaced parallel ribs disposed within said Each adapter 170 is provided with a downwardly de- grooves, means on said adapter engaging said **panel**, said 'pending rib 175 which is arranged to fit within the out- ribs including recesses therein, and resilient sealing means wardly open grooves in the portion 33a and 34a of win-.disposed partially in said recesses but extending outwardly dow **frame** 31. As in the case of the preceding emfoodi- 30 therefrom to engage an inside **wall** of said groove to ment, the ribs 175 are fitted with weatherstripping of the provide a seal between each rib and its groove, type illustrated in Fig. 9, or other suitable material, such

Classifications:

International (IPC 8-9): E04B2/92 (Advanced/Invention);
E04B2/90 (Core/Invention)
International (IPC 1-7): E04C2/38 E06B3/12
CPC: E04B2/92
European: E04B2/92
US: 52/204.591 52/208 52/316 52/317 52/474 52/592.1 52/730.4 52/734.1 52/775



Family:

Publication number	Publication date	Application number	Application date
US3101820 A	19630827	US19600014887	19600314

Priority:

US19600014887 19600314

Probable Assignee: BUTLER MFG CO
Assignee(s): (std): BUTLER MANUFACTURING CO ; BUTLER MFG CO
Assignee(s): BUTLER MANUFACTURING COMPANY
Inventor(s): (std): DUNNINGTON JON B ; SNYDER MARVIN K

Title: CONCRETE FORM

Abstract: Source: US3552076A A self-supporting concrete form of foamed **polymeric** material to be left in place to provide insulation for a **wall** the form having two side **walls joined** by transverse tension members of sheet metal or other thin fire resistant material. The tension members are embedded in projections provided on inner faces of the two **walls** to provide substantially cylindrical vertically disposed cavities for concrete. The upper and lower edges of the tension members and projections are inwardly spaced from associated edges of the two side **walls** so that a horizontally disposed concrete beam will also be provided when the form and adjacent similar forms are filled with liquid concrete.

Classifications:

International (IPC 8-9): E04B2/54 E04B2/86 (Advanced/Invention);

E04B2/02 (Advanced/Non-invention);

E04B2/42 E04B2/86 (Core/Invention);

E04B2/02 (Core/Non-invention)

International (IPC 1-7): E04B1/16 E04B2/20 E04B2/40 E04B2/86 E04C1/08 E04C1/14 E04C2/20 E04G11/00

CPC: E04B2/54 E04B2/8611 E04B2/8617 E04B2002/0206

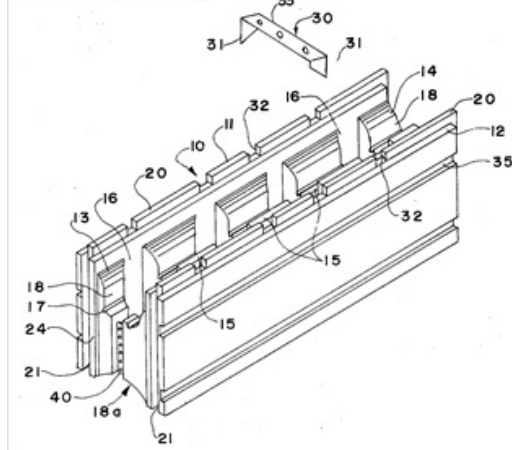
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European: E04B2/54 E04B2/86E E04B2/86E1 P04B2/02M1A

P04B2/86P

US: 52/309 52/309.12 52/426 52/438 52/439 523/90

PatBase - US3552076_R



Family:

Publication number	Publication date	Application number	Application date
BE695933 A	19670901		19670322
CH474642 A	19690630	CH19670012644	19670911
DE1609426 A1	19700326	DE19671609426	19670321
DE1609426 B2	19751023	DE19671609426	19670321
DE1609426 C3	19760812	DE1967G049634	19670321
ES338293 A1	19680401	ES19670338293	19670321
FR1519051 A	19680329	FR19670099708	19670321
GB1169723 A	19691105	GB19660049836	19661107
JP49028367 B4	19740725	JP19670017487	19670322
NL6704155 A	19670925	NL19670004155	19670321
SE350560 B	19721030	SE19670003909	19670321
US3552076 A	19710105	US19680770233	19681024
US3788020 A	19740129	US19690823800	19690512

Priority:

CA19660095553 19660322 CA19660955523 19660322 US19660058092 19660921
 US19660580912 19660921 US19660569908 19660803 FR19670099708 19670321
 US19680770233 19681024

Probable Assignee: 526806 ONTARIO LTD

Assignee(s): (std): ROHER BOHM LTD ; GREGORI WERNER KARL HERMANN ; GREGORI W ; WERNER KARL HERMANN GREGORI

Assignee(s): GREGORI WERNER KARL HERMANN OAKVILLE ONTARIO ; 526806 ONTARIO LTD ; FOAM FORM CANADA C O ANCHOR SHORING LTD ; FOAM FORM CANADA LTD ; INSULBLOCK SYSTEMS INC ; ROHER BOHM LIMITED ; GREGORI WERNER KARL HERMANN OAKVILLE ONTARIO KANA ; GREGORI WERNER KARL HERMANN OAKVILLE ONTARIO KANADA ; GREGORI WERNER KARL HERMANN OAKVILLE ONTARIO (KANADA) ; ROHER BOHM LTD GB

Inventor(s): (std): GREGORI WERNER K H ; GREGORI WERNER KARL HERMANN ; GREGORI W ; HERMANN GREGORI WERNER KARL ; KARL HERMANN GREGORI WERNER

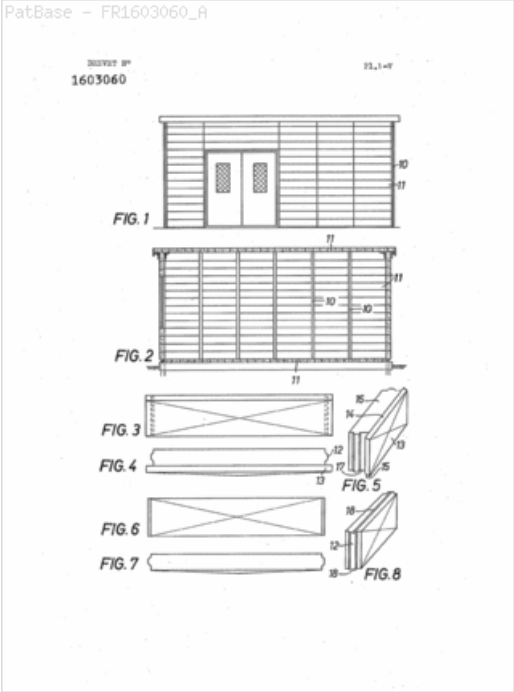
Inventor(s): WERNER K H GREGORI ; GREGORI W CA ; GREGORI WERNER KARL HERMANN OAKVILLE ONTARIO ; GREGORI WERNER KARL HERMANN OAKVILLE ONTARIO KANA ; GREGORI WERNER KARL HERMANN OAKVILLE ONTARIO KANADA

Title: CORED PROFILED BUILDING PANELSAND BEAMS

Abstract: Source: FR1603060A **Building system** uses **panels** comprising a **thermoplastic** envelope filled with a rigid hollow core, pref. a synthetic foam or cast slag, the eds being profiled to engage one another or a profiled framework. Seals may be used. **Panels** assembled vertically pref. engage with an angled lip pointing downwards. The posts are pref. a coaxial **plastic** profile and a metal core tube, pref. with flared flanges, the space between pref. being bridged by a rigid **plastic** foam. Pref. assembled using a bitumen-based adhesive hot enough to form a bond with the **plastic** surfaces and form a permanent, resilient seal. One **panel** features studs in the ground so **panels linked** by tie bars can form a staggered **wall**. The **panels** may enclose support sound absorbent material (foamed **polyethylene**), may have a decorative cover, profile or texture. For erecting building or vision or acoustic barriers besides roads, airfields, etc. Text mentions component panles 95 cm long, 25 cm deep and 6 to 8 cm thick.

Classifications:

International (ipc 8-9): E01C1/00 E01F7/06 E01F8/00 E04B1/12 E04B1/28 E04C2/20 E04C3/36 (Advanced/Invention); E01C1/00 E01F7/00 E01F8/00 E04B1/02 E04B1/28 E04C2/10 E04C3/30 (Core/Invention)
International (ipc 1-7): E01C1/00 E01F7/06 E01F8/00 E04C2/24 F16S3/04
CPC: E01C1/005 E01F7/06 E01F8/0035 E04B1/12 E04B1/28 E04C2/205 E04C3/36
European: E01C1/00C E01F7/06 E01F8/00A25 E04B1/12 E04B1/28 E04C2/20B E04C3/36



Family:

Publication number	Publication date	Application number	Application date
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Priority:

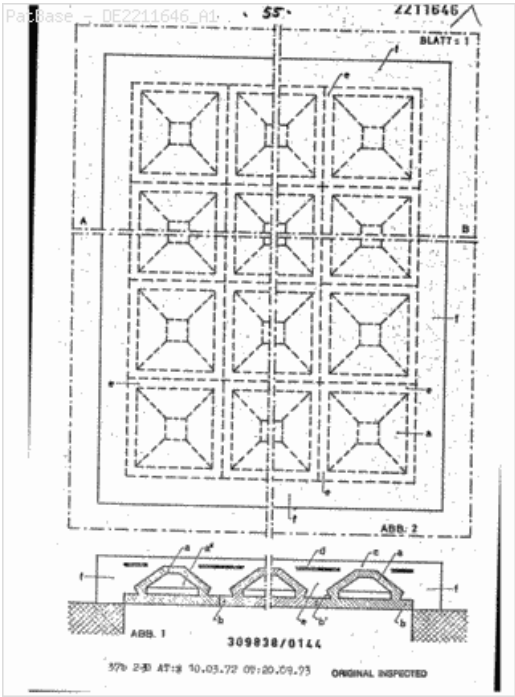
DE19671659088 19670826

Title: ISOLIERBAUELEMENT FUER DECKEN UND WAENDE AUS STAHLBETON-FERTIGTEILEN ISOLIERBAUELEMENT for ceilings and walls of reinforced concrete precast (Machine translation)

Abstract: Source: DE2211646A1 (Claim1) Patentansprueche:1 olierbauelement fuer Decken und Wandle aus Stahlbetonfertigteilen mit Konstruktionsteilen, die der Tragfaehigkeit und Waermespeicherung dienen, und isolierenden Teilen zur Schalldaemmung und Vermeidung vonTemperaturdurchgang, dadurch gekennzeichnet, dass die tragenden kn-struktionsteile aus statisch kreuzweise und diagonal gitterwerkartig armierten Laengs- und Querrippen (e) sowie einem aeusseren rundumlaufen den Stahlbetonrahmen (f), der die Rippen mit den sich zwischen ihnen ergebenden kassettenartigen Feldern umschliesst, bestehen, die zurOberflaeche hin mit einer armierten massiven-oberen Deckenbeton- (c) bzw.

Machine translation: (Claim1) CLAIMS: 1 olierbauelement for ceiling and wall of precast concrete elements with structural components that serve the carrying capacity and Waermespeicherung, and insulating parts for sound insulation and avoidance vonTemperaturdurchgang, characterized in that the supporting kn structural parts from static cross-wise and diagonal lattice-storied reinforced Longitudinal - and transverse ribs (e) and an outer circular orbit of the reinforced concrete frame (f) of the ribs with the enclosing between them resulting cassette-like fields, which zurOberflaeche made out with a reinforced solid-top cover concrete (c) or

Classifications:
International (IPC 8-9): E04B2/84 E04B5/21 (Advanced/Invention); E04B2/84 E04B5/17 (Core/Invention)
International (IPC 1-7): E04B1/76 E04C2/30
CPC: E04B2/84 E04B5/21
European: E04B2/84 E04B5/21



Family:

Publication number	Publication date	Application number	Application date
DE2211646 A1	19730920	DE19722211646	19720310

Priority:
DE19722211646 19720310

Probable Assignee: BECKER HEINRICH
Assignee(s): (std): BECKER HEINRICH
Assignee(s): BECKER HEINRICH 8700 WUERZBURG
Inventor(s): (std): BECKER HEINRICH
Inventor(s): BECKER HEINRICH 8700 WUERZBURG

Title: METHOD FOR MAKING CAST-IN-PLACE CONCRETE STRUCTURES

Abstract: Source: US3885296A A method for making a cast-in-place concrete structure comprises the steps of forming an arrangement of concrete forms; placing a plurality of void creating devices within the confines of and spaced from the concrete forms, each of the void creating devices being an elongated hollow member made of frangible material, and having at least one opposed pair of projections, with the respective projections of adjacent devices abutting one another in order to enable internal communication between said devices, and with the ends of the devices and the non-abutting projections thereof extending to the periphery of the concrete forms; and pouring uncured concrete into the spaces in and around and in intimate contact with the void creating devices, and allowing the concrete to cure. Subsequently, the frangible ends and exposed projections of the void creating devices may be knocked out in order to provide access into the labyrinth of passageways defined by the hollow devices within the interior of the composite concrete structure. The void creating devices are preferably made of an insulating material, thereby resulting in a one-process system for achieving a one layer, composite, self-insulated concrete construction unit, and which enables the unit to be integrally finished on both sides.

Classifications:

International (IPC 8-9): E04B1/16 E04B1/18 E04B1/20 E04B2/84 E04B5/48 E04C2/10 E04C3/20 E04C3/29

E04G15/06 (Advanced/Invention);

E04B2/86 (Advanced/Non-invention);

E04B1/16 E04B1/18 E04B1/20 E04B2/84 E04B5/48 E04C2/10

E04C3/20 E04C3/29 E04G15/00 (Core/Invention);

E04B2/86 (Core/Non-invention)

International (IPC 1-7): B23P19/04 B28B7/18 E04B1/04 E04B1/14

E04B1/16 E04B1/18 E04B1/20 E04B1/345 E04B1/38 E04B1/41

E04B2/84 E04B2/86 E04B5/32 E04B5/48 E04C1/00 E04C1/12

E04C1/24 E04C1/39 E04C2/10 E04C2/30 E04C3/00 E04C3/20

E04C3/29 E04F15/06 E04G15/00 E04G15/06 F24F13/02

CPC: E04B2/8629 E04B5/06 E04B5/326 E04B1/18 E04B1/161

E04B2/84 E04B5/48 Y10T29/49838

European: E04B1/16A E04B1/18 E04B2/84 E04B5/06 E04B5/48 P04B2/86F1

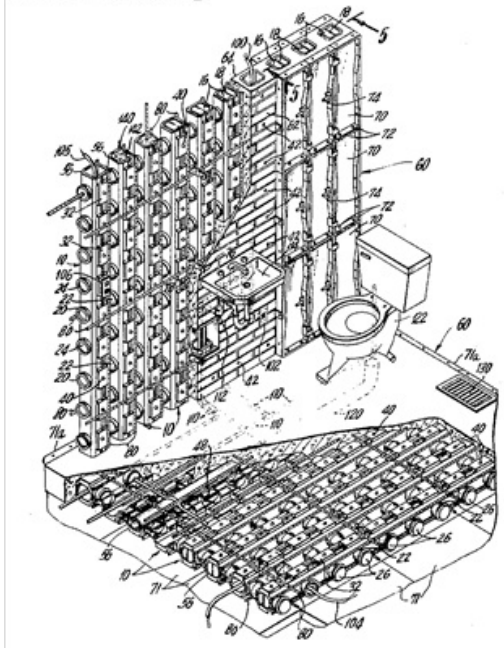
US: 249/83 249/84 264/263 264/35 29/433 294/330 52/100

52/220.2 52/220.3 52/241 52/262 52/264 52/295 52/309.12

52/309.16 52/309.17 52/405.2 52/577 52/607 52/91 52/91.2 52/99

52/990 521/0

PatBase - US3885296_A

**Family:**

Publication number	Publication date	Application number	Application date
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AU197473011 A1	19760311	AU19740073011	19740905
BE820109 A	19750116	BE19740148697	19740919
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CA1048749 A1	19790220	CA19740212527	19741029
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FR2259956 B1	19790202	FR19740031716	19740919
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IL43729 A0	19740314	IL19730043729	19731130
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IN143400 A	19771119	IN1974CA02078	19740918
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NL7412265 A	19750324	NL19740012265	19740916
OA4941 A	19801031	OA19740055340	19741111
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US3885296 A	19750527	US19740487605	19740711
US3908323 A	19750930	US19740487604	19740711
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ZA7405622 A	19760428	ZA19740005622	19740904

Priority:

US19730399087 19730920

US19730399087 19730930

US19730487605 19731011

US19740487605 19740711

US19750550172 19750218

US19740487604 19740711

Probable Assignee: STOUT R K

Assignee(s): (std): ROBAATO KERUSO SUTAUTO ; ROBERT KELSO STOUT ; STOUT R ; STOUT R K ; STOUT ROBERT K ; STOUT ROBERT KELSO ; STOUT ROBERT

Assignee(s): STOUT ROBERT MX ; STOUT RK ; ROBERT KELSO STOUT TE MEXICO ; ROBERT DELSO STOUT

Inventor(s): (std): ROBAATO KERUSO SUTAUTO ; ROBERT KELSO STOUT ; STOUT R ; STOUT ROBERT K ; STOUT ROBERT KELSO

Inventor(s): KELSO STOUT ROBERT
Agent(s): WOLFF BREGMAN AND GOLLER

Title: PREFABRICATED **WALL PANEL**

Abstract: Source: US4140824A The invention discloses a prefabricated partition having high acoustical insulation value and comprising two parts which are symmetrical on either side of a plane parallel to and between the outer facings. The **frame** members of one part being adhered to the **frame** members of the opposite part by an adhesive over at least a portion of the adjoining **frame** surfaces. To reduce the area of contact between the rigid **frames** they may be recessed along a portion of their adjoining surfaces and the recesses filled with an elastic foam. The **frames** are preferably of a rigid foam material.

Classifications:

International (IPC 8-9): E04B1/84 E04B1/86 E04B1/98 E04B2/28 E04B2/74 E04C2/292 (Advanced/Invention);

E04B1/84 (Advanced/Non-invention);

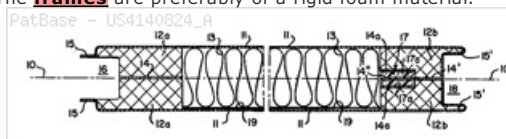
E04B1/84 E04B1/98 E04B2/74 E04C2/26 (Core/Invention)

International (IPC 1-7): B32B15/04 B32B15/08 B32B15/18 B32B3/02 B32B3/06 B32B3/08 E04B1/86 E04B2/28 E04B2/72 E04B2/74 E04B2/76 E04C2/30 E04C2/46

CPC: Y10T428/24653 Y10T428/24744 E04B1/86 E04B2001/8423 E04B2001/8447 E04B2001/8452 Y10T428/249981 B32B5/18 B32B3/06 B32B3/30 B32B5/22 B32B7/12 B32B15/04 B32B15/046 B32B2305/028 B32B2307/102 B32B2307/3065 B32B2307/56 B32B2311/00 B32B2607/00 E04C2/292

European: E04B1/86 E04C2/292 P04B1/84P P04B1/84P5B P04B1/84P6

US: 428/177 428/188 428/316.6 428/81 52/309.11 52/309.7 52/309.9



Family:

Publication number	Publication date	Application number	Application date
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CH611672 A	19790615	CH19760014028	19761108
DE2551905 A1	19770825	DE19752551905	19751119
ES453446 A1	19780101	ES19760453446	19761118
FR2332391 A1	19770617	FR19760035001	19761119
GB1545240 A	19790502	GB19760048368	19761119
IT1064340 A	19850218	IT19760029559	19761119
JP52081920 A2	19770708	JP19760138592	19761119
NL7612160 A	19770523	NL19760012160	19761103
SE7612584 A	19770520	SE19760012584D	19761111
SE7612584 L	19770520	SE19760012584	19761111
US4140824 A	19790220	US19760742610	19761117

Priority:

DE19752551905 19751119

Probable Assignee: HUNTER DOUGLAS IND BV

Assignee(s): (std): HUNTER DOUGLAS CANADA LTD ; HUNTER DOUGLAS IND BV ; HUNTER DOUGLAS IND PIEKSTR BV ; HUNTER DOUGLAS INT ; HUNTER DOUGLAS INTERNATIONAL

Assignee(s): HUNTER DOUGLAS INT NV ; HUNTER DOUGLAS INTERNATIONAL N V ; GAILLARD ADRIANUS J C ; HUNTER DOUGLAS CANADA LIMITED ; HUNTER DOUGLAS INDUSTRIES B V ; HUNTER DOUGLAS INDUSTRIES B V PIEKSTRAAT 2 TE ROTTERDAM ; HUNTER DOUGLAS INDUSTRIES BV

Inventor(s): (std): ADORIANASU YOHANESU KARORUSU G ; GAILLARD A J C ; GAILLARD ADRIANUS J C ; GAILLARD ADRIANUS JOHANNES CAR

Inventor(s): ADRIANUS JOHANNES CAROLUS GAILLARD ; CAROLUS GAILLARD ADRIANUS JOHANNES

Title: SUPPORT SPACER APPARATUS

Abstract: Source: US4329823A A support spacer apparatus relating to a **paneling** system for providing improved insulating qualities to pre-engineered buildings and the like in which stresses imparted to a supported structure are transferred through compressible insulation without diminishing the thermal character of the insulation, the support spacer apparatus comprising a spacer member having a plurality of fastener assemblies **connected** thereto and extendable through the insulation; the fastener assemblies **attachable** to an underlying substrate by the application of energy to the fastener assemblies for supporting the spacer member at a predetermined distance from the substrate such that the insulation is disposed substantially in its prepenetration state after **attachment** of the fastener assemblies to the substrate.

Classifications:

International (IPC 8-9): E04B1/00 E04B1/14 E04B1/346 E04B1/62 E04B2/00 E04B7/00 E04B7/02 E04B7/04 E04C3/08 E04D1/00 E04D13/15 E04D13/16 E04D15/04 E04D3/16 E04D3/36 E04D3/362 E04D3/363 E04D3/367 E04D3/38 F16B35/04 F16B35/06 G11B15/087 G11B21/10 G11B5/596 (Advanced/Invention); E04C3/04 E04D3/361 F16B5/02 (Advanced/Non-invention); E04B7/00 E04C3/04 E04D1/00 E04D13/16 E04D3/36 F16B35/04 G11B15/087 G11B21/10 G11B5/596 (Core/Invention); E04C3/04 E04D3/36 F16B5/02 (Core/Non-invention)

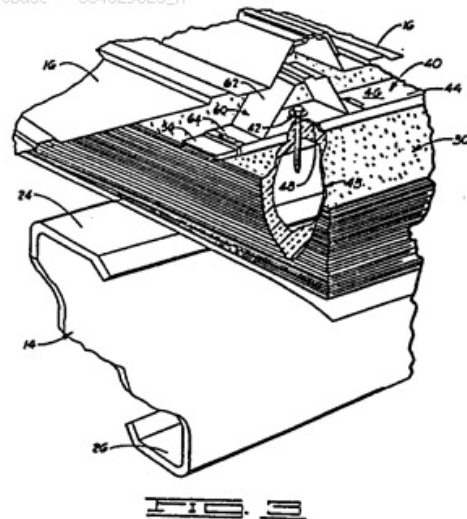
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CPC: G11B5/59627 E04B7/00 E04B1/14 E04D3/364 E04D3/38 E04D13/15 E04D13/1681 E04B7/024 E04C2003/026 Y10S52/01 E04D3/362 E04C2003/046 E04D3/363 E04D15/04 Y10T403/32951 Y10T403/68 Y10T403/7084 Y10T403/7123 E04D3/3602 E04C3/08 E04C2003/0413 E04C2003/0421 E04C2003/043 E04C2003/0434 E04C2003/0447 E04C2003/0452 E04C2003/0465 E04C2003/0473 E04C2003/0482 E04C2003/0491 E04C2003/0495 E04D3/3607 E04D3/3608 E04D13/1618 E04D2003/3615 F16B5/0275 F16B35/044 F16B35/06

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Probable Assignee: HAROLD SIMPSON INC

Assignee(s): (std): HAROLD SIMPSON INC ; COMMERCIAL HYDRAULICS AG ; ENCON PRODUCTS INC ; IBM ; NUCOR CORP ; SIMPSON INC HAROLD

Assignee(s): INTERNATL BUSINESS MACH CORP ; TULSA INNOVATION CENTER VENTURE PARTNERS II LTD ; TULSA INNOVATION CENTER VENTURE PARTNERS II PARTNE ; SIMPSON HAROLD G ; NEYER LEO E ; JEN SHEN ; KABELAC WILLIAM J ; SANDERS IAN L ; INT BUSINESS MACHINES CORP ; ENCON PRODUCTS INC 210 S W 89TH STREET OKLAHOMA ; COMMERCIAL HYDRAULICS S A ; COMMERCIAL HYDRAULICS SA ; ECON PRODUCTS INC ; FABTEC INC ; ENCON PRODUCTS INC 2737 WEST CALIFORNIA OKLAHOMA ; ENCON PRODUCTS INC 210 S W 89TH STREET OKLAHOMA CI ; ENCON PRODUCTS INC 2737 WEST CALIFORNIA OKLAHOMA C ; ENCON PRODUCTS INC A CORP OF OK ; ENCON PRODUCTS INC A CORP OF OKLA ; FABTEC INC AN OKLAHOMA CORP ; ENCON PRODUCTS INC 210 S W 89TH STREET OKLAHOMA CITY OKLAHO ; ENCON PRODUCTS INC 2737 WEST CALIFORNIA OKLAHOMA CITY OKLAHOM ; HOLLMAN BERT D

Inventor(s): (std): HOLLMAN BERT D ; KABELAC WILLIAM J ; KABELAC WILLIAM JOHN ; BINDRA CHARANJIT S ; NEYER LEO E ; SANDERS IAN L ; SIMPSON H ; SIMPSON HAROLD G ; JEN SHEN ; SIMPSON HAROLD S ; SALISBURY C STEPHEN

Inventor(s): IAN ERU SANDAASU ; UIRIAMU JIYON KABERATSUKU ; SHIEN JIEN ; HAROLD G SIMPSON ; LEO E NEYER

Agent(s): RIDOUT AND MAYBEE LLP; MACRAE AND CO; KERR ALEXANDER; MCCARTHY BILL D; FELLERS SNIDER ET AL; BILL D

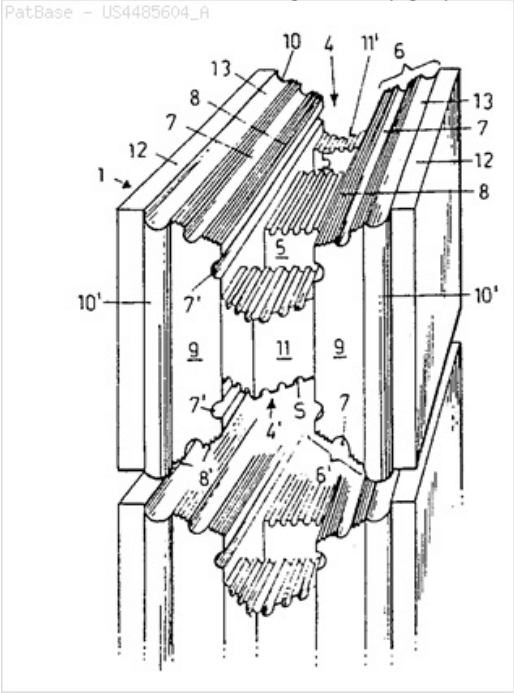
Designated states: AT BE CH DE FR GB IT LI LU NL SE

Title: Modular building elements which form when assembled a network of conglomerate or reinforced concrete to form a bearing structure which is also anti-seismic

Abstract: Source: US4485604A Modular building elements which form when assembled a network of conglomerate or reinforced concrete as a bearing structure which is also anti-seismic. The modular elements are to be used for constructing flat or flat and/or vaulted brickwork, with or without air spaces. Each type of element is completed by a **polyvalent** modular element to be used as a single accessory for any corner, meeting point, cross **wall attachment**, etc. All the modular elements are equipped with groove devices suited to their particular characteristics to ensure that the assembled structure seals in conglomerate in each point, uninterrupted throughout the entire brickwork. The conglomerate network formed by the combination of all the molding characteristic of the **modules** is made up of vertical and horizontal seams designed to replace the pillars and beams of a reinforced concrete framework. This is anchored to the modular elements, at the same time **attaching** them to one another. The resulting structure allows construction of a building requiring no framework of reinforced concrete pillars and beams. When resistant modular elements are used, they contribute to the bearing function of the structure. When non-resistant modular elements are used, the network alone assumes the bearing function (Fig. 7).

Classifications:

International (IPC 8-9): E04B2/40 E04B2/54
E04C 1/39 (Advanced/Invention);
E04B2/02 (Advanced/Non-invention);
E04B2/28 E04B2/42 E04C 1/00 (Core/Invention);
E04B2/02 (Core/Non-invention)
International (IPC 1-7): E04B2/00 E04B2/40 E04B2/54 E04C 1/10
E04H9/00
CPC: E04B2/40 E04B2/54 E04B2002/0265 E04C 1/39
European: E04B2/40 E04B2/54 E04C 1/39 P04B2/02N4
US: 52/259 52/436 52/600 52/606 D25/114



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Priority:

EP19820830050 19820309 IT19810047978 19810309

Probable Assignee: PALAMARA BRUNO

Assignee(s): (std): PALAMARA BRUNO ; PALAMARA GIANNI ; PALAMARA GIOVANNI ; PALAMARA ROCCO

Inventor(s): (std): PALAMARA ROCCO ; PALAMARA GIOVANNI ; PALAMARA GIANNI ; PALAMARA BRUNO

Inventor(s): ROCCO PALAMARA

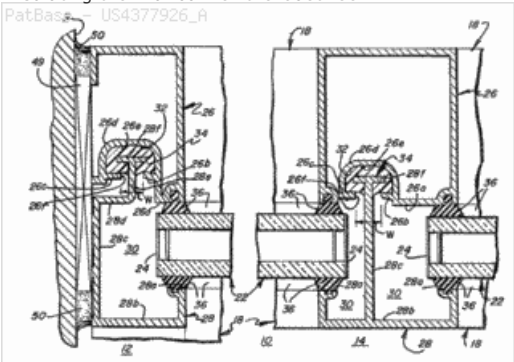
Designated states: AT BE CH DE FR GB IT LI LU NL SE

Title: FRAMING MEMBER FOR CURTAIN WALL STRUCTURES

Abstract: Source: US4377926A Vertical and/or horizontal **frame** members for use in a curtain **wall** construction including a framework and one or more glazing **panels** include a pair of elongated, spaced apart, metal elements structurally interconnected with a heat insulating element. One of the elements is formed with a pocket having an opening in a **wall** portion facing the other metal element and the other metal element includes a tongue extending into the pocket through the opening. The heat insulating element of resinous **plastic** material structurally interconnects the tongue and pocket of the metal elements into a composite **frame** member and provides a heat insulating thermal barrier therebetween.

Classifications:

International (IPC 8-9): E04B2/96 E06B3/267 (Advanced/Invention);
E06B3/263 (Advanced/Non-invention);
E04B2/88 E06B3/04 (Core/Invention)
International (IPC 1-7): E04C1/00
CPC: Y10S49/01 E04B2/96 E06B3/26336 E06B3/267
European: E04B2/96 E06B3/267 P06B3/263C
US: 48/DIG.1 49/DIG.1 52/204.591 52/309.3 52/395 52/403 52/730 52/730.5 52/844



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19780880710 19780223

Probable Assignee: KAWNEER CO
Assignee(s): (std): KAWNEER CO
Assignee(s): KAWNEER CO INC ; KAWNEER COMPANY INC
Inventor(s): (std): COULSTON ELLWIN L ; HUBBARD S EUGENE