

PatBase - Search results 23 June 2017

Search query (1): [SP]: In a structural reinforcement system of the present invention, a reinforcing material of a bundled fibrous material is positioned spanning a joint between structural members, and then opposite end sections of the reinforcing material are inserted into apertures formed in each of the structural members and fixed in place by anchoring with an adhesive. An angle formed between a center line of each aperture and a line connecting openings of the apertures should preferably ranges between 135° to 160°. The reinforcing material is preferably a bundle of fibers selected from the group consisting of aramid fiber, nylon fiber, carbon fiber, glass fiber, and steel fiber, and the bundle of fibers is impregnated with a resin.

Results: 15

Search history

Search 1: [SP]: In a structural reinforcement system of the present invention, a reinforcing material of a bundled fibrous material is positioned spanning a joint between structural members, and then opposite end sections of the reinforcing material are inserted into apertures formed in each of the structural members and fixed in place by anchoring with an adhesive. An angle formed between a center line of each aperture and a line connecting openings of the apertures should preferably ranges between 135° to 160°. The reinforcing material is preferably a bundle of fibers selected from the group consisting of aramid fiber, nylon fiber, carbon fiber, glass fiber, and steel fiber, and the bundle of fibers is impregnated with a resin. (Results 15)

1) Family number: 4565497 (JP57151760A)

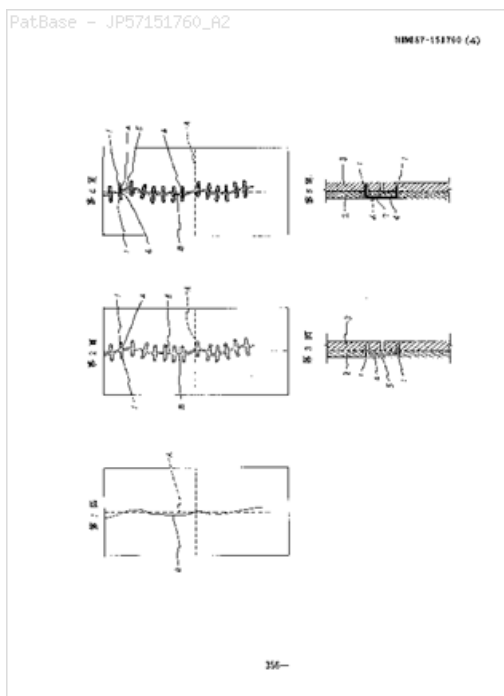
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Title: REPAIRING OF MORTAR WALL IN TWO-BY-FOUR WOODEN BUILDING

Classifications:

International (IPC 8-9): E04G23/02 (Advanced/Invention);
E04G23/02 (Core/Invention)

International (IPC 1-7): E04G23/02

**Family:**

Publication number	Publication date	Application number	Application date
JP1333725 C3	19860828	JP19810034248	19810309
JP57151760 A2	19820918	JP19810034248	19810309
JP60050945 B4	19851111	JP19810034248	19810309

Priority:

JP19810034248 19810309

Probable Assignee:

NASU KOGYO KK

Assignee(s): (std):

NASU KOGYO KK

Inventor(s): (std):

NAKASHIMA MINORU

Inventor(s):

NAKAJIMA MINORU

2) Family number: 12097748 (US5440845A)

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Title: Precast concrete sandwich panels

Abstract: Source: US5440845A To make precast concrete sandwich panels, a first concrete slab is formed having embedded in it one end of connectors which extend from it's surface in two directions with the path between the two containing only thermally insulative material, a layer insulative material is positioned adjacent to a central portion of said connectors to form a solid layer and a second layer of concrete is cast so as to receive the upper ends of said connectors. The connectors provide resistance to shear in at least two directions and include insulative high tensile strength members extending in more than one direction between the concrete slabs.

International (IPC 8-9): B28B19/00 E04B1/62 E04C1/40 E04C2/04 E04C2/288 E04C5/16 (Advanced/Invention);
E04C2/04 E04C2/26 E04C5/16 (Core/Invention)
International (IPC 1-7): B28B19/00 E04B1/62 E04C1/40 E04C2/04 E04C2/26
CPC: E04C2/044 E04C2/288 E04C5/163
European: E04C2/04D E04C2/288 E04C5/16B1
US: 52/309.12 52/309.7 52/410 52/600 52/712 523/91.2



Publication number	Publication date	Application number	Application date
CA2078062 AA	19930314	CA19922078062	19920911
EP0532140 A1	19930317	EP19920250249	19920908
FI924055 A	19930314	FI19920004055	19920910
FI924055 A0	19920910	FI19920004055	19920910
NO303237 B1	19980615	NO19920003551	19920911
NO923551 A	19930315	NO19920003551	19920911
NO923551 A0	19920911	NO19920003551	19920911
US5440845 A	19950815	US19940320109	19941006

CA19922078062 19920911 US19910760078 19910913 US19940320109 19941006

Assignee(s): (std): UNIV NEBRASKA

Assignee(s): THE BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA ; TADROS MAHER KHALID ; SALMON DAVID CHARLES ; BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA THE ; BOARD OF UNIV OF NEBRASKA ; BOARD OF UNIV OF NEBRASKA TH ; CULP TODD DARIN ; EINEA AMIN

Inventor(s): (std): CULP TODD D ; CULP TODD DARIN ; EINEA AMIN ; SALMON DAVID C ; SALMON DAVID CHARLES ; TADROS MAHER K ; TADROS MAHER KHALID

Agent(s): RIDOUT AND MAYBEE LLP

Designated states: DE FR GB SE

3) Family number: 11381803 (JP6193280A)

Title: CONCRETE REPAIRING METHOD WITH UNIDIRECTIONALLY ARRANGED FIBER-REINFORCED SHEET

Abstract: Source: JP6193280A PURPOSE:To enhance the sticking strength of a fiber-reinforced sheet to a concrete repair surface even when sufficient sticking area cannot be secured to enhance the strength after repair when structure such as bridge, high level road, etc., are repaired with an unidirectionally arranged fiber-reinforced sheet. CONSTITUTION:Grooves 10 are formed in a concrete surface 5a apart from each other, and resin 11 is filled into the grooves 10. Next, with both ends of a fiber-reinforced sheet 1 positioned at the grooves 10, the fiber-reinforced sheet 1 is stuck on the concrete surface 5a.

International (IPC 8-9): E01D2/00 E01D21/00 E01D22/00
E04G23/02 (Advanced/Invention);
E01D101/24 E01D101/40 (Advanced/Non-invention);
E01D2/00 E01D21/00 E01D22/00 E04G23/02 (Core/Invention)
International (IPC 1-7): E01D21/00 E04G23/02
CPC: E04G2023/0262



Publication number	Publication date	Application number	Application date
JP3220540 B2	20011022	JP19920359043	19921225

Priority:

JP19920359043 19921225

Probable Assignee: TONEN CORP**Assignee(s):** (std): TONEN CORP**Inventor(s):** (std): SAITO MAKOTO ; TANAKA YOSHINORI**4) Family number: 30860392 (US5809712A)**

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Title: System for joining precast concrete columns and slabs

Abstract: Source: US5809712A A precast concrete system is provided that consists of columns and slabs joined together in one point. Each corner of the slab is equipped with a steel pipe mounted on a steel plate that is attached at and covers the top surface of the column. Each column is equipped with high tensile steel reinforcement strands protruding at the top end to penetrate the steel pipes of the four corners of four slabs, through the holes in the steel base plate attached at the bottom surface of the next column above it, and through the pipes implanted vertically at the lower section of the next column. The implanted pipes are in line with the holes on the base plate. The four steel pipes of four slabs meeting on one column are tied together with high tensile steel wire rope through three holes drilled horizontally at three places of the pipe length: upper, middle, and lower sections. The pipes of the slab corners and the gaps between pipes and slabs are filled with a special mortar cement that hardens fast. Then a special mortar cement is injected to the implanted pipes through each pipe's opening on the side surface of the column.

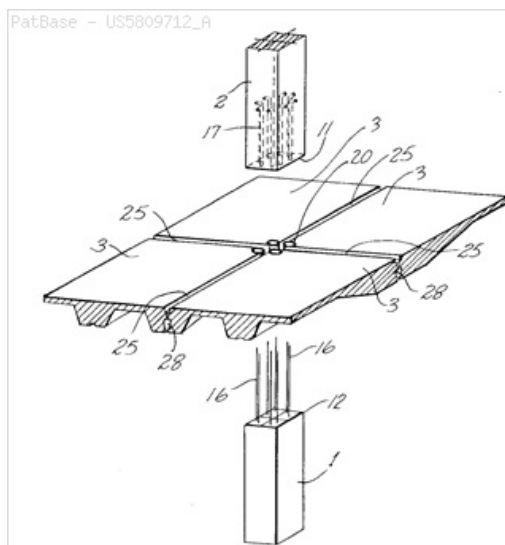
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International (IPC 1-7): E04B1/16 E04B1/20 E04B1/21 E04B5/02 E04C5/08

CPC: E04C3/34 E04C5/08**European:** E04C3/34 E04C5/08

US: 52/223.7 52/236.8 52/236.9 52/251 52/263 52/283 52/583.1 52/585.1 52/742.14 52/747.12

**Family:**

Publication number	Publication date	Application number	Application date
JP10096263 A2	19980414	JP19970163338	19970605
US5809712 A	19980922	US19970870086	19970605

Priority:

ID19960001540 19960606

Probable Assignee: SIMANJUNTAK JOHAN HASIHOLOAN**Assignee(s):** (std): I R JOHANN HASHIHORAN SIMANJUN ; SIMANJUNTAK JOHAN HASIHOLOAN**Assignee(s):** I R JOHANN HASHIHORAN SIMANJUNTAKK**Inventor(s):** (std): SIMANJUNTAK JOHAN HASIHOLOAN ; I R JOHANN HASHIHORAN SIMANJUN**Inventor(s):** I R JOHANN HASHIHORAN SIMANJUNTAKK**5) Family number: 13746895 (US6324805B)**

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Title: STRUCTURAL REINFORCEMENT SYSTEM AND REINFORCING METHOD AT JOINT BETWEEN STRUCTURAL MEMBERS

Abstract: Source: US6324805B In a structural reinforcement system of the present invention, a reinforcing material of a bundled fibrous material is positioned spanning a joint between structural members, and then opposite end sections of the reinforcing material are inserted into apertures formed in each of the structural members and fixed in place by anchoring with an adhesive. An angle formed between a center line of each aperture and a line connecting openings of the apertures should preferably ranges between 135 degrees to 160 degrees. The reinforcing material is preferably a bundle of fibers selected from the group consisting of aramid fiber, nylon fiber, carbon fiber, glass fiber, and steel fiber, and the bundle of fibers is impregnated with a resin.

Classifications:

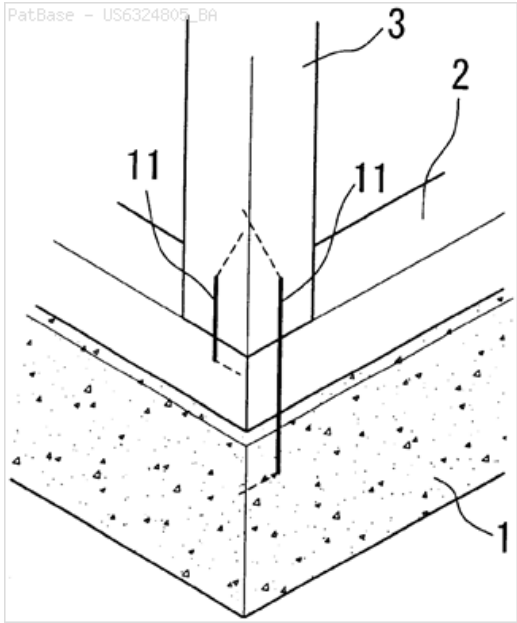
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E04B1/58 (Advanced/Non-invention); E04B1/26 E04B1/38 E04B1/41 E04B1/58 E04C3/12 E04C5/07 E04G23/02 E04H9/02 (Core/Invention)

International (IPC 1-7): E04B1/38 E04B1/58 E04B1/62 E04B1/98 E04B2/00 E04C5/07 E04G23/02

CPC: E04G2023/0248 E04G2023/0251 E04G2023/0262 E04H9/02 E04B1/2604 E04B1/4178 E04B2001/2652 E04C3/16 E04C5/07 E04G23/0218

European: E04B1/26B E04B1/41M E04C3/16 E04C5/07 E04G23/02C



Family:

Publication number	Publication date	Application number	Application date
JP2000265678 A2	20000926	JP19990072747	19990317
JP3532441 B2	20040531	JP19990072747	19990317
KR100381443 B1	20030423	KR20000013696	20000317
KR20010014605 A	20010226	KR20000013696	20000317
TW467988 B	20011211	TW20000104495	20000313
US6324805 BA	20011204	US20000522806	20000310

Priority:

JP19990072747 19990317 KR20000013696 20000317

Probable Assignee: FUKUVI CHEMICAL IND CO LTD

Assignee(s): (std): FUKUVI CHEM IND CO ; NANIWA RENTARO ; NANBA RENTAROU

Assignee(s): FUKUVI CHEMICAL INDUSTRY CO LTD ; FUKUVI CHEM IND CO LTD ; FUKUVI CHEMICAL IND ; FUKUVI CHEMICAL IND CO ; FUKUVI CHEMICAL IND CO LTD ; FUKUVI CHEMICAL INDUSTRY CO

Inventor(s): (std): NANBA RENTAROU ; NANIWA RENTARO

6) Family number: 29086926 (US2003181114A) © PatBase

Title: DRYWALL TAPE AND JOINT

Abstract: Source: US2003181114A Drywall tapes, drywall joints and methods for their construction are provided by this invention. The drywall tape of this invention includes a web of glass fibers and a coating disposed over a portion of the glass fibers. The coating includes a resinous binder which is at least partially soluble or dispersible in joint compound. The resinous binder is capable of forming an adhesive bond with the joint compound when set.

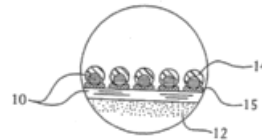
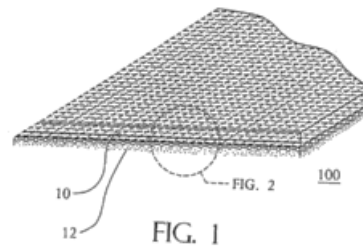
Classifications:

International (IPC 8-9): B32B33/00 B32B7/12 B32B9/00 C09J7/04 E04F13/04 (Advanced/Invention); B32B33/00 B32B7/12 B32B9/00 C09J7/04 E04F13/02 (Core/Invention) International (IPC 1-7): B32B27/12 B32B3/00 B32B33/00 B32B5/02 B32B7/12 B32B9/00

CPC: E04F13/042 E04F13/047 C09J7/04 C09J2400/263 E04F13/04 Y10T428/14 Y10T428/1419 Y10T428/197 Y10T428/28 Y10T442/2738

European: C09J7/04 E04F13/04 E04F13/04C M09J400/26S

US: 428/343 428/343S 428/40.1 428/40.100S 428/40.5 428/61 428/61S 442/149 442/149P

**Family:**

Publication number	Publication date	Application number	Application date
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US7141284 BB	20061128	US20020102061	20020320

Priority:

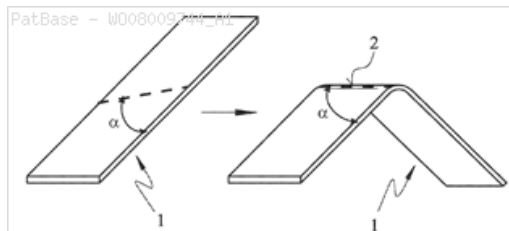
US20020102061 20020320

Probable Assignee: SAINT GOBAIN ADFORS CANADA LTD**Assignee(s):** (std): SAINT GOBAIN TECHNICAL FABRICS**Assignee(s):** SAINT GOBAIN TECHNICAL FABRICS AMERICA ; SAINT GOBAIN TECHNICAL FABRICS CANADA LTD ; SAINT GOBAIN ADFORS CANADA LTD**Inventor(s):** (std): ROBERTS DAVID GERAINT ; NEWTON MARK JOSEPH**Agent(s):** DUANE MORRIS LLP**7) Family number: 41117150 (WO08009744A1)**

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Title: REINFORCING ELEMENT, METHOD FOR PRODUCING A REINFORCING ELEMENT OF THIS TYPE, AND COMPONENT WHICH IS EQUIPPED WITH A REINFORCING ELEMENT

Abstract: The invention relates to a reinforcing element, in particular a thrust elbow, comprising a fibre-reinforced profile (1, 1.1, 1.2) having a forming region (2), wherein the reinforcing element is deformed in this forming region (2) and is therefore of three-dimensional configuration. The forming region (2) lies in a region of intersection of an imaginary plane which stands perpendicularly on the profile blank, wherein this plane is rotated at an acute angle counter to the longitudinal direction of the profile (1, 1.1, 1.2).

Classifications:**International (IPC 8-9):** E04C5/07 E04G23/02 (Advanced/Invention); E04C5/07 E04G23/02 (Core/Invention)**CPC:** E04G2023/0251 E04G23/0218 E04C5/07**European:** E04C5/07 E04G23/02C**Family:**

Publication number	Publication date	Application number	Application date
AT466149 E	20100515	AT20070787774T	20070720
DE502007003614 D1	20100610	DE200750003614T	20070720
EP1881125 A1	20080123	EP20060117647	20060721
EP2047046 A1	20090415	EP20070787774	20070720
EP2047046 B1	20100428	EP20070787774	20070720
WO08009744 A1	20080124	WO2007EP57524	20070720

Priority:

EP20060117647 20060721 EP20070787774 20070720 WO2007EP57524 20070720

Probable Assignee: SIKA TECHNOLOGY AG**Assignee(s):** (std): CLENIN RETO ; SIKA TECHNOLOGY AG ; VODERMAYER ALBERT MARIA**Inventor(s):** (std): CLENIN RETO ; VODERMAYER ALBERT MARIA

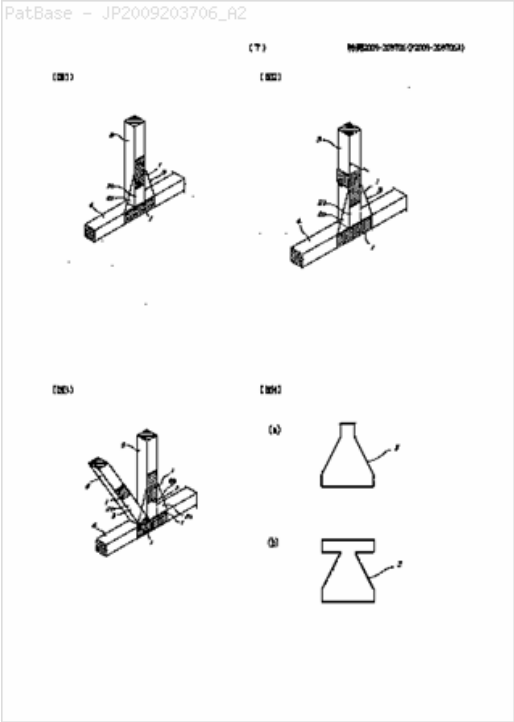
Inventor(s): DIE ERFINDERNENNUNG LIEGT NOCH NICHT VOR
Agent(s): ISLER JOERG; ISLER JOERG ET AL
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE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

8) Family number: 43856896 (JP2009203706A) © PatBase

Title: WOODEN CONSTRUCTION-REINFORCING STRUCTURE

Abstract: Source: JP2009203706A PROBLEM TO BE SOLVED: To provide a wooden construction-reinforcing structure for preventing pull-out of a fixing member from a base member, or breakage and collapse of the fixing member due to insufficient shear strength of the same, the reinforcing structure being constructed by bonding a photo-curing fiber-reinforced prepreg sheet to each structural member of the wooden construction, and securing unbonded portions between the structural members, to thereby bring about increased planar rigidity effect and increased deforming performance of a connection portion of the wooden construction (the construction), and achieve an ultimate distortion angle (inter-layer distortion angle) of 1/30 radian specified according to the building standards law, the reinforcing structure being implemented by a simple construction method, and avoiding variations of the construction quality thereof depending on the operator. SOLUTION: According to the wooden construction reinforcing structure by using a reinforcing member, the connection portion is reinforced by bonding the photo-curing fiber-reinforced prepreg sheet 3 as the reinforcing member astride the structural members, and securing the unbonded portions 2a, 2b between the structural members.

Classifications:
International (IPC 8-9): E04G23/02 (Advanced/Invention);
E04G23/02 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
JP2009203706 A2	20090910	JP20080047149	20080228
JP5285928 B2	20130911	JP20080047149	20080228

Priority:

JP20080047149 20080228

Probable Assignee: UNIV HIROSHIMA

Assignee(s): (std): ASAHI CHEMICAL CORP ; ASAHI KASEI CHEMICALS CORP ; UNIV HIROSHIMA

Assignee(s): HIROSHIMA UNIV

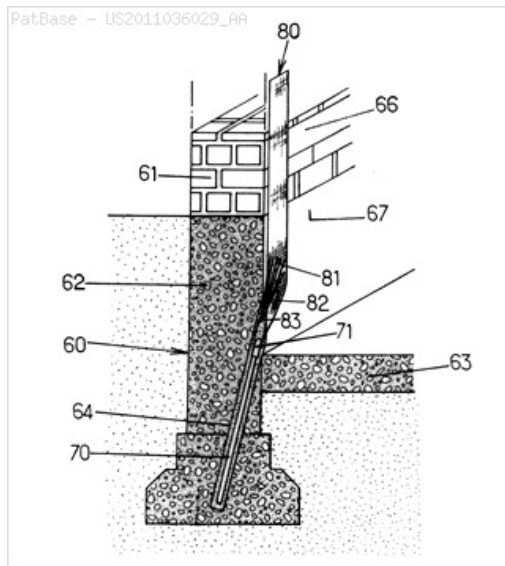
Inventor(s): (std): YAMAMOTO TADAO ; WATANABE YASUAKI ; SAIGO KENJI ; OKUBO TAKAAKI ; KAJITA ETSUO

9) Family number: 48248782 (US2011036029A) © PatBase

Title: PROCESS FOR REINFORCING A CONSTRUCTION STRUCTURE, AND STRUCTURE THUS REINFORCED

Abstract: Source: US2011036029A Process for reinforcing a construction structure where, laid on one portion of said structure, is at least one portion of a reinforcement (10) of elongated shape comprising continuous fibers in the longitudinal direction of said reinforcement, which are combined with a polymer matrix, wherein said process comprises a step of removing the polymer matrix in one portion (20) of the reinforcement so as to release the fibers of the reinforcement in order to allow their rearrangement following their release from the polymer matrix. It is thus possible to optimize the binding configuration of the reinforcement with a portion of the structure to be reinforced.

Classifications:
International (IPC 8-9): B29C35/02 E04C1/00 E04C2/22 E04C5/07
E04G23/02 (Advanced/Invention)
CPC: E04G23/0218 E04G2023/0251 E04G2023/0262
European: E04G23/02C
US: 264/80 264/80S 52/309.1 52/309.100P 52/309.5

**Family:**

Publication number	Publication date	Application number	Application date
DE602010018839 D1	20141023	DE201060018839T	20100802
EP2295675 A1	20110316	EP20100171577	20100802
EP2295675 B1	20140910	EP20100171577	20100802
ES2525478 T3	20141223	ES20100171577T	20100802
FR2948712 A1	20110204	FR20090055462	20090803
FR2948712 B1	20150306	FR20090055462	20090803
US2011036029 AA	20110217	US20100848708	20100802
US8925268 BB	20150106	US20100848708	20100802

Priority:

EP20100171577 20100802 FR20090055462 20090803

Probable Assignee: SOLETANCHE FREYSSINET**Assignee(s):** (std): MELLIER ERIK ; SOLETANCHE FREYSSINET ; TOURNEUR CHRISTIAN**Inventor(s):** (std): MELLIER ERIK ; TOURNEUR CHRISTIAN**Inventor(s):** ERIK MELLIER ; CHRISTIAN TOURNEUR**Agent(s):** CABINET PLASSERAUD; VEIGA MIKEL; MCKENNA LONG AND ALDRIDGE LLP**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: 44921468 (US2012317906A)**

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Title: MODULAR SLAB AND MODULAR SURFACE SYSTEM

Abstract: Source: US2012317906A A removable modular slab for use in the construction industry includes upper, lower, and first and second opposing end surfaces, and a conduit extending from the upper surface to an end surface. The slab is abutable with a second removable modular slab, having: (i) a conduit extending from the upper surface to an end surface, and/or (ii) a cavity extending from an end surface into the slab, whereby the conduits mate to form an elongate conduit through the two slabs. By access through apertures in each slab, a first joining structure is removably locatable to join the two slabs. Cavities may terminate within the second slab and only be accessible through the upper surface of the first slab. A modular surface system includes two such slabs and a joining structure to join the two slabs together.

Classifications:

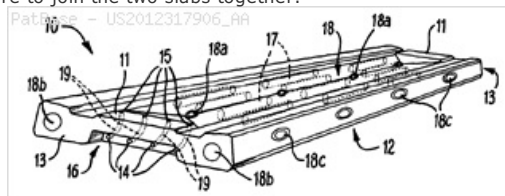
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CPC: E01B1/007 E01C11/04 E01C15/00 E04B1/043 E01B3/40

E01C5/005 E04B5/043 E04B5/48 E04C2/38 E04C2/20 E01B1/002

European: E01B1/00C E01B3/40 E01C5/00D E04B5/04H

US: 14/73 404/36 52/220.1 52/223.11 52/223.7 52/583.1 52/588.1 52/745.13 52/745.21

**Family:**

Publication number	Publication date	Application number	Application date
CA2825687 AA	20130725	CA20112825687	20110127
EP2529050 A1	20121205	EP20110706894	20110127
GB201001492 A0	20100317	GB20100001492	20100129
GB2477319 A1	20110803	GB20100001492	20100129
GB2477319 B2	20160810	GB20100001492	20100129
IN07455DN2012 A	20160101	IN2012DN07455	20120827
RU2012136794 A	20140310	RU20120136794	20110127
RU2574086 C2	20160210	RU20120136794	20110127
US2012317906 AA	20121220	US20120557278	20120725
US2015152638 AA	20150604	US20150620038	20150211
US8973318 BB	20150310	US20120557278	20120725
US9574346 BB	20170221	US20150620038	20150211
WO11092470 A1	20110804	WO2011GB00107	20110127

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US20150620038	20150211				

Probable Assignee: PRECAST ADVANCED TRACK LTD

Assignee(s): (std): HAMMOND JOHN ; PRECAST ADVANCED TRACK LTD

Assignee(s): HAMMOND JOHNMEADOW COTTAGEHATTON FARMBIRMINGHAM ROADHATTONWARWICK CV35
7EYWARWICK WARWICKSHIREGB ; JOHN HAMMOND

Inventor(s): (std): HAMMOND JOHN ; JOHN HAMMOND

Inventor(s): PRECAST ADVANCED TRACK LTD ; HAMMOND JOHNMEADOW COTTAGEHATTON FARMBIRMINGHAM
ROADHATTONWARWICK CV35 7EYWARWICK WARWICKSHIREGB

Agent(s): MARKS AND CLERK; MBM INTELLECTUAL PROPERTY LAW LLP; CAWLEY AIMEE ELIZABETH; BOSE MCKINNEY AND EVANS LLP; CAWLEY AIMEE

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
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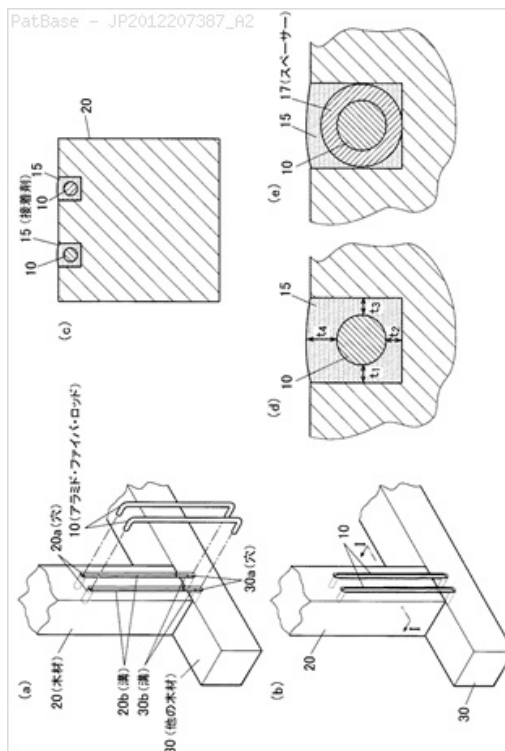
11) Family number: 52337703 (JP2012207387A)

Title: REINFORCEMENT STRUCTURE FOR TIMBER

Abstract: Source: JP201220738/A PROBLEM TO BE SOLVED: To provide a reinforcement structure for timber that improves the reinforcement strength of timber.SOLUTION: A reinforcement structure for timber includes an aramid fiber rod 10 of which one end is bent and a timber 20 with a hole 20a and a groove 20b extending from the hole 20a along the front face, and the one end is inserted into the hole 20a and the aramid fiber rod extending from the one end to the other end is fitted to the groove 20b.

Classifications:

International (IPC 8-9): E04B1/26 E04B1/38 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
JP2012207387 A2	20121025	JP20110071933	20110329

Priority:

JP20110071933 20110329

Probable Assignee: MISAWA HOMES CO

Assignee(s): (std): MISAWA HOMES CO

Assignee(s): MISAWA HOMES CO LTD

Inventor(s): (std): KAJIKAWA HISAMITSU ; TAKAGI HITOYUKI

12) Family number: 53268310 (JP2013028929A)

Title: JOINT STRUCTURE FOR WOODEN MEMBER

Abstract: Source: JP2013028929A PROBLEM TO BE SOLVED: To provide a joint structure for wooden members which solves a problem of a shearing force added to a high strength fiber wire rod comprising a carbon fiber thread, a basalt fiber thread and the like to enable wide use of the high strength fiber wire rod in the joint structure for the wooden members.SOLUTION: A joint structure for wooden members includes: holes which are formed in a column 10 and beams 11, 12 jointed to each other and extend along a prescribed direction; high strength fiber wire rods 30 which are embedded in the holes; and steel pipes 40 each of which covers a part positioned in a joint of the high strength fiber wire rod 30. Each of the steel pipes 40,

International (IPC 8-9): E04B1/26 E04B1/58 (Advanced/Invention)



Publication number	Publication date	Application number	Application date
JP2013028929 A2	20130207	JP20110164672	20110727
JP5808598 B2	20151110	JP20110164672	20110727

Priority:

JP20110164672 20110727

Probable Assignee: KOMATSU SEIREN CO

Assignee(s): (std): KOMATSU SEIREN CO

Assignee(s): KOMATSU SEIREN CO LTD

Inventor(s): (std): HAYASHI YUTAKA ; MOCHIDA YASUhide ; OKUTANI AKIHIRO ; TOGASHI KOSUKE

Agent(s): KUBOYAMA TAKASHI; KATO HISASHI

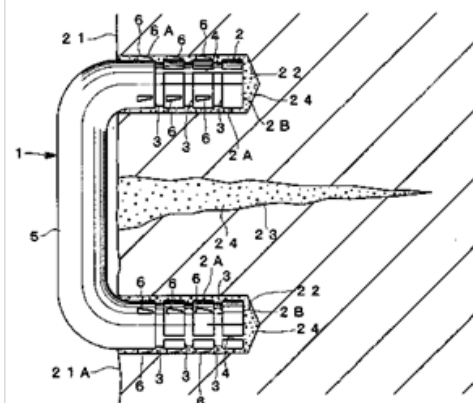
13) Family number: 58276654 (JP2014227771A)

Title: REINFORCEMENT TOOL FOR CONCRETE STRUCTURE

Abstract: Source: JP201422771A PROBLEM TO BE SOLVED: To provide a reinforcement tool for a concrete structure for easily, quickly and inexpensively executing reinforcement work, by preventing the concrete structure itself from being damaged, by restraining the expansion of a crack caused in the concrete structure.SOLUTION: A reinforcement tool 1 for a concrete structure is composed by integrally molding a pair of inserting shaft parts 2 and a bridge shaft part 5 by mortar. The inserting shaft parts 2 inserted into an insertion hole 22 of the concrete structure 21, are formed in a columnar shape, and form a plurality of annular locking grooves 3 of a cross-sectional substantially U shape, by separating in the axial direction. The respective annular locking grooves 3 communicate by a mortar introduction groove 4. The bridge shaft part 5 of crossing the crack 23 of the concrete structure 21 is formed in a columnar shape, and both ends in the axial direction are linked to the inserting shaft parts 2.

Classifications:

International (IPC 8-9): E02B3/04 E02B3/06 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
JP2014227771 A2	20141208	JP20130110151	20130524
JP6108958 B2	20170405	JP20130110151	20130524

Priority:

JP20130110151 20130524

Probable Assignee:

MINAMIGUMI KK

Assignee(s): (std):

MINAMIGUMI KK

Inventor(s): (std):

MINAMI OSAMU

14) Family number: 57990413 (US2016138285A)

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Title: ARRANGEMENT AND METHOD FOR REINFORCING SUPPORTING STRUCTURES

Abstract: Source: US2016138285A The present disclosure relates to an arrangement having a supporting structure having a surface containing (e.g., consisting of) one or more faces, wherein a bore runs from at least one face into an inner region of the supporting structure, and this bore is filled with an adhesive and with a portion of a fibre bundle projecting beyond said face, wherein, on the at least one face, from which the bore runs into an inner region of the supporting structure, the supporting structure is provided with at least one groove which, starting from the bore, extends in at least one direction on the surface, and the projecting part of the fibre bundle is located, at least in part, in the at least one groove and is fastened therein by way of the adhesive.

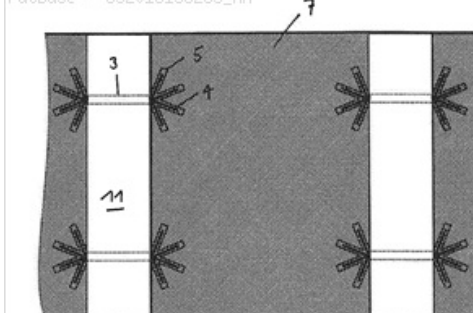
Classifications:

International (IPC 8-9): E02D27/00 E02D27/08 E04C5/07
E04G23/02 (Advanced/Invention)

CPC: E04G23/0218 E04G2023/0251 E04C5/07 E04G2023/0262

US: 52/514.5 52/741.3

PatBase - US2016138285_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2014276778 AA	20141211	AU20140276778	20140606
CA2914506 AA	20151204	CA20142914506	20140606
CN105431601 A	20160323	CN201480042835	20140606
CO16000493 A2	20160630	CO20160000493	20160104
EP3004490 A1	20160413	EP20140728978	20140606
JP2016524669 T2	20160818	JP20160517629T	20140606
US2016138285 AA	20160519	US20140896284	20140606
US9574359 BB	20170221	US20140896284	20140606
WO14195504 A1	20141211	WO2014EP61915	20140606

Priority:

EP20130170879 20130606

EP20140728978 20140606

WO2014EP61915 20140606

Probable Assignee: SIKA TECHNOLOGY AG
Assignee(s): (std): SIKA TECH AG ; SIKA TECHNOLOGY AG
Assignee(s): BERSSET THIERRY
Inventor(s): (std): BERSSET THIERRY
Inventor(s): THIERRY BERSSET
Agent(s): WRAYS PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; TOBOS MATEUS ANDREA; ANDREA TOBOS MATEUS; SIKA PATENT ATTORNEYS; SAEGUSA AND PARTNERS; BUCHANAN INGERSOLL AND ROONEY PC
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

15) Family number: 58450785 (ITMI20131316A) © PatBase

Title: COLLEGAMENTO ANTISISMICO TRA DUE ELEMENTI STRUTTURALI, PARTICOLARMENTE TRA DUE ELEMENTI STRUTTURALI PREFABBRICATI, DEL TIPO TRAVE-PILASTRO, TRAVE-TRAVE, TRAVE-TEGOLO O SIMILE. CONNECTION BETWEEN TWO SEISMIC STRUCTURAL ELEMENTS, ESPECIALLY BETWEEN TWO STRUCTURAL ELEMENTS PRECAST, TYPE BEAM-COLUMN, BEAM-BEAM, BEAM-tile OR SIMILAR. (Machine translation)

Classifications:
CPC: E04H9/027 E04B1/215 E04H9/021

Family:

Publication number	Publication date	Application number	Application date
ITMI20131316 A1	20150203	IT2013MI01316	20130802

Priority:
IT2013MI01316 20130802

Probable Assignee: INTERBAU S R L
Assignee(s): (std): INTERBAU S R L
Assignee(s): INTERBAU SRL
Inventor(s): (std): CERSOSIMO GIUSEPPE