

Search history

Search 1: block spacer (Results 125)
Search 2: method (Results 1000000)
Search 3: 1 and 2 (Results 33)

1) Family number: 50734796 (GB201121771 A0)

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This family has been merged with family 48145029. Please click here to search for this family.

2) Family number: 23018352 (US3357484A)

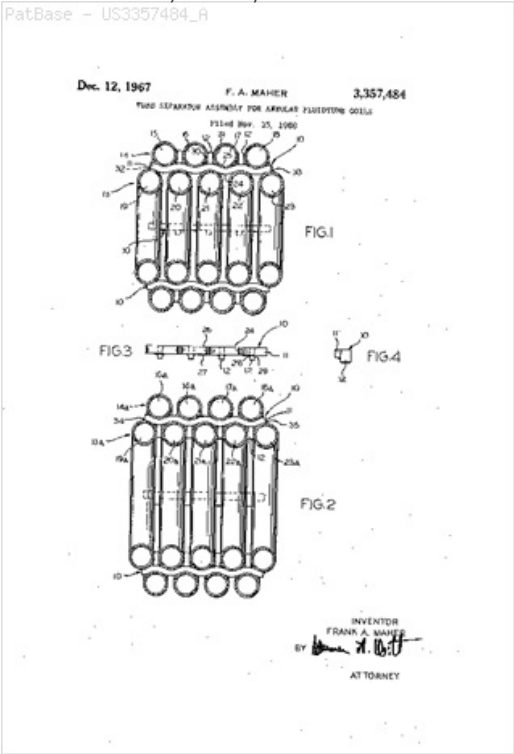
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Title: TUBE SEPARATOR ASSEMBLY FOR ANNULAR FLUIDTUBE COILS

Abstract: Source: GB1203058A 1,203,058. Steam generators; tube supports. VAPOR CORP. 11 Oct., 1967 [15 Nov., 1966], No. 46400/67. Headings F4A and F4S. The tubes in a bank of tube coils are separated by a separator 10 comprising a sinuous elongated portion 11 separating two layers 13, 14, of tubes, from which portion extend members 12 separating the tubes 15... 18 in a layer. The member 10 is tack welded to the coil 13 and the members 12, which are welded to the portion 11, may be welded to their adjacent tubes. In a modification the members 12 extend radially inwardly.

Classifications:

International (IPC 8-9): F22B21/26 F22B29/02 F22B37/10 F28F9/013 (Advanced/Invention); F22B21/00 F22B29/00 F22B37/00 F28F9/007 (Core/Invention)
International (IPC 1-7): F28D7/02 F28D7/08 F28F9/00
CPC: Y10T29/49373 Y10T29/49387 F28F9/0132 F22B21/26 F22B29/02 F22B37/10
European: F22B21/26 F22B29/02 F22B37/10 F28F9/013D
US: 122/510 165/172 165/76 29/890.043 29/890.051



Family:

Publication number	Publication date	Application number	Application date
DE1551548 A1	19700423	DE19671551548	19671115
GB1203058 A	19700826	GB19670046400	19671011
US3357484 A	19671212	US19660594578	19661115

Priority:

US19660594578 19661115

Probable Assignee:

VAPOR CORP

Assignee(s): (std):

VAPOR CORP

Inventor(s): (std):

A MAHER FRANK ; MAHER FRANK A

3) Family number: 742645 (GB1285121A)

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Title: DECIMAL COIN PURSE

Abstract: Source: GB1285121A 1285121 Dispensing articles; tills L A DALCHOW 9 Oct 1970 [19 June 1970] 29899/70 Heading A4T [Also in Division G4] A purse or container dispensing different coins comprises a base 10, Fig.5, retaining the

bottom of conical springs 9, Fig.4, having upper end-caps 8 pushing stacks of coins up guides 6 in a block 5, Fig.3, to a top retaining plate 1, Fig.2 provided with openings 2 above each stack and smaller than the coin diameter, each opening having an edge cut-out 2A whereby, any stack may be depressed in its vertical guide 6 and the top coin extracted sideways through the cut-out. The base 10, block 5 and top plate 1 are secured together by tabs 4 on the plate 1 and held within a container by screws entering block 5 at 7.

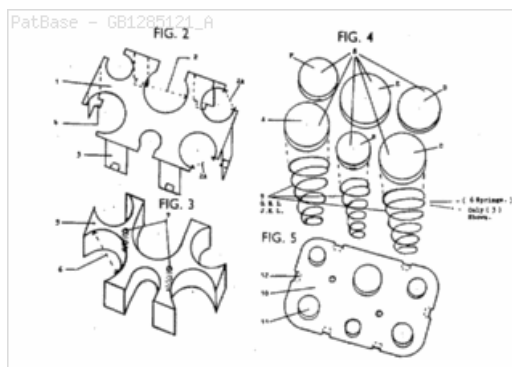
Classifications:

International (IPC 8-9): A45C1/02 G07D9/00 (Advanced/Invention)

International (IPC 1-7): B65D83/04

CPC: A45C1/02 A45C2001/108 G07D9/002

European: A45C1/02 G07D9/00C K45C1/10R6D



Family:

Publication number	Publication date	Application number	Application date
GB1285121 A	19720809	GB19700029899	19700619

Priority:

GB19700029899 19700619

Probable Assignee: DALCHOW LEONARD ALFRED

Assignee(s): (std): DALCHOW LEONARD ALFRED

Assignee(s): LEONARD ALFRED DALCHOW

Inventor(s): (std): DALCHOW LEONARD ALFRED

Inventor(s): LEONARD ALFRED DALCHOW

4) Family number: 1162235 (US3902296A)

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Title: BLOCK CONSTRUCTIONS

Abstract: Source: US3902296A The invention comprises a method of erecting a wall or like construction from a plurality of similar regular shaped blocks, and a means for carrying out the method, including the utilisation of a pair of spacer or form strips initially maintained in spaced relationship by a plurality of transverse tie members which are preferably separable from the strips, the spacer or form strips being arranged for location between adjacent blocks at the front and rear peripheral edge portions thereof during block erection and having main parts of depth equal to the required spacing of the blocks so that the wall can be erected initially without mortar or other binding materials. In the case of walls erected with hollow blocks the voids can be infilled with concrete after erection of the wall and the strips can be peeled away from the formed joints after the concrete has set to leave a joint of neat appearance.

Classifications:

International (IPC 8-9): E04B1/00 E04B2/00 E04B2/02 E04B2/44 E04G21/18 (Advanced/Invention);

E04B2/02 (Advanced/Non-invention);

E04B1/00 E04B2/00 E04B2/02 E04B2/42 E04G21/18 (Core/Invention)

International (IPC 1-7): E04B1/00 E04B2/00 E04B2/14 E04B2/16

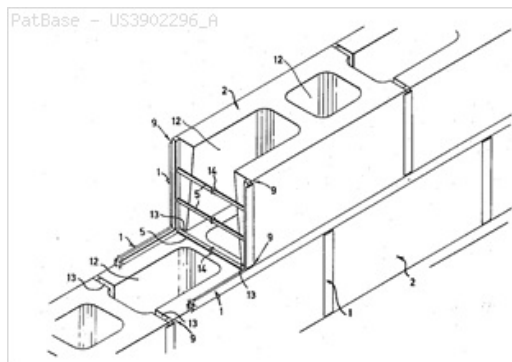
E04B2/26 E04B2/30 E04B2/42 E04B2/44 E04B2/46 E04C1/08

E04C1/10

CPC: E04B2/44 E04B2002/0282 E04G21/1841 E04G21/1883

European: E04B2/44 E04G21/18C P04B2/02N9A

US: 52/426 52/747 52/747.12 527/470



Family:

Publication number	Publication date	Application number	Application date
AU197470120 A1	19751218	AU19740070120	19740614
AU472200 B2	19760520	AU19740070120	19740614
CA1017591 A1	19770920	CA19740202131	19740611
GB1474266 A	19770518	GB19740025904	19740611
JP50035919 A2	19750404	JP19740069274	19740619
JP54007133 B4	19790404	JP19740069274	19740619
JP973260 C3	19790928	JP19740069274	19740619
US3902296 A	19750902	US19740475020	19740531

Priority:

NZ19730171097 19730619

Probable Assignee: THOMAS R

Assignee(s): (std): THOMAS R ; THOMAS R E B ; THOMAS ROBERT E B ; THOMAS ROBERT EDMUND BAILEY

Assignee(s): ROBERT EDMUND BAILEY THOMAS ; THOMAS ROBERT EB ; THOMAS REB

Inventor(s): (std): THOMAS ROBERT E B ; THOMAS ROBERT EDMUND BAILEY

Inventor(s): ROBERT EDMUND BAILEY THOMAS ; THOMAS ROBERT EB

Title: Method for the production of slabs of marble or similar stony material

Abstract: Source: US4177789A Thin sections of marble or like stone are made by sawing of a block to produce preliminary slabs which are held together, either by integral bridging portions, bonded base portions, or external shoring, while a spacer material, for example resin, is introduced into the clefts between the slabs. A second sawing operation then divides each slab into two halves, which can be ground and polished before separation.

Classifications:

International (IPC 8-9): B23Q3/08 B28D1/00 B28D1/02 B28D1/06 B28D1/22 (Advanced/Invention);

B23Q3/08 B28D1/00 B28D1/02 B28D1/22 (Core/Invention)

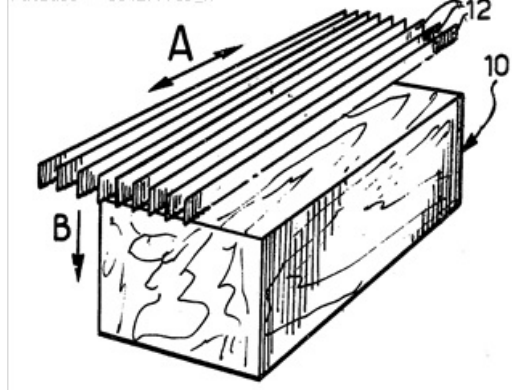
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CPC: B23Q3/08 B28D1/00 B28D1/00S B28D1/06

European: B23Q3/08 B28D1/00 B28D1/00S B28D1/06

US: 125/1 125/12 125/16.01 451/41

PatBase - US4177789_A



Family:

Publication number	Publication date	Application number	Application date
BR7804955 A	19790306	BR19780004955	19780802
CA1094428 A1	19810127	CA19780308370	19780728
DE2833874 A1	19790222	DE19782833874	19780802
DE2833874 C2	19870723	DE19782833874	19780802
ES472299 A1	19790316	ES19780472299	19780802
FR2399309 A1	19790302	FR19770039222	19771226
FR2399309 B1	19800404	FR19770039222	19771226
GR64851 B	19800605	GR19780156897	19780731
IT1082799 A	19850521	IT19770068796	19770803
JP1229389 C3	19840919	JP19780094170	19780803
JP54040380 A2	19790329	JP19780094170	19780803
JP59001170 B4	19840110	JP19780094170	19780803
PT68374 A	19780901	PT19780068374	19780802
US4177789 A	19791211	US19780930118	19780801
YU187278 A	19830121	YU19780001872	19780802

Priority:

CA19780308370 19780728 IT19770068796 19770803

Probable Assignee: HEALY LTD

Assignee(s): (std): JIUSETSUPE MAROTSUKO ; MAROCCO G ; MAROCCO GIUSEPPE

Assignee(s): MAROCCO GIUSEPPE TURIN IT ; GIUSEPPE MAROCCO ; HEALY LTD

Inventor(s): (std): GIUSEPPE MAROCCO ; JIUSETSUPE MAROTSUKO ; MAROCCO G ; MAROCCO GIUSEPPE

Inventor(s): MAROCCO GIUSEPPE TURIN IT

Agent(s): MACRAE AND CO

Title: LIQUID CRYSTAL DEVICE AND METHOD FOR MANUFACTURING SAME WITH SPACERS FORMED BY PHOTOLITHOGRAPHY

Abstract: Source: US2003071957A An improved liquid crystal device and manufacturing method for same are described. In the device, a pair of substrates, between which a liquid crystal layer is disposed, is joined with pillars inbetween functioning as spacers which are provided of photocurable resin by photolithography. With this structure, the spacers can be in surface contact with the inside surfaces of the substrates on which electrode arrangement and active devices are formed.

Classifications:

International (IPC 8-9): G02F1/13 G02F1/1339 (Advanced/Invention)

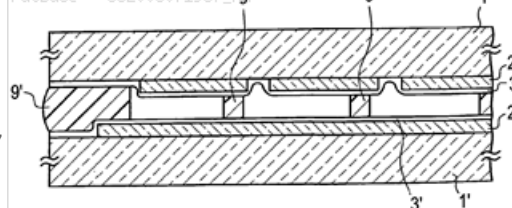
International (IPC 1-7): B29C37/00 B44C1/22 C03C15/00 C03C25/06 G02F1/13 G02F1/133 G02F1/1339 G02F1/25

CPC: G02F1/1339 G02F1/1339A G02F1/13392

European: G02F1/1339 G02F1/1339B S02F1/1339A

US: 156/632 156/633 156/655 156/668 216/20 216/23 216/48 257/59 257/72 349/153 349/154 349/155 349/155P 349/156 349/157 349/164 349/190 359/81

PatBase - US2003071957_A



Family:

Publication number	Publication date	Application number	Application date
JP63050817 A2	19880303	JP19860196424	19860820
US2003071957 AA	20030417	US20020304706	20021127
US4874461 A	19891017	US19880222633	19880721
US5379139 A	19950103	US19920908756	19920706
US5952676 A	19990914	US19970871129	19970606

US5963288 A	19991005	US19950470618	19950606
US6493057 BA	20021210	US19990347834	19990702
US6853431 BB	20050208	US20020304706	20021127

Priority:

JP19860196424 19860820 JP20490196424 19860820 US19870087275 19870820
US19970871129 19970606 US19920908756 19920706 US19890440422 19891120
US19990347834 19990702 US19950470618 19950606 US19940314618 19940929
US20020304706 20021127

Probable Assignee: SEMICONDUCTOR ENERGY LAB

Assignee(s): (std): SEMICONDUCTOR ENERGY LAB ; SEMICONDUCTOR ENERGY LAB CO LTD

Assignee(s): SEMICONDUCTOR ENERGY LABORATORY CO ; SEMICONDUCTOR ENERGY LABORATORY CO LTD

Inventor(s): (std): AOYAGI OSAMU ; AOYANAGI OSAMU ; ISHIGAKI CHIZURU ; ISHIGAKI CHIZURU ; ISIGAKI CHIZURU ; KOBAYASHI IPPEI ; KONUMA TOSHIMITSU ; MASE AKIRA ; ODAKA MASAKAZU ; ODAKA SEIICHI ; OSABE AKIO ; OTAKA MASAICHI ; SAKAYORI HIROYUKI ; SATO MASAHIKO ; TABATA KAORU ; TAKAYAMA TORU ; WATANABE TOSHIO ; YAMAGUCHI TOSHIHARU ; YAMAGUCHI TOSHIJI ; YAMAZAKI SHUNPEI

Agent(s): ERIC J; ROBINSON INTELLECTUAL PROPERTY LAW OFFICE PC

7) Family number: 2198847 (GB2199907A)

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Title: Limited slip differential conversion

Abstract: Source: GB2199907A A standard bevel gear differential is modified by boring out the casing to receive belleville washers (6) and thrust washer (8). A thrust block spacer (7) is located between two sum gears (3), preferably having an elongated hole to allow floating on a mounting pin (5) of the plant gears. Shims are added behind the thrust washer (8) to take up wear.

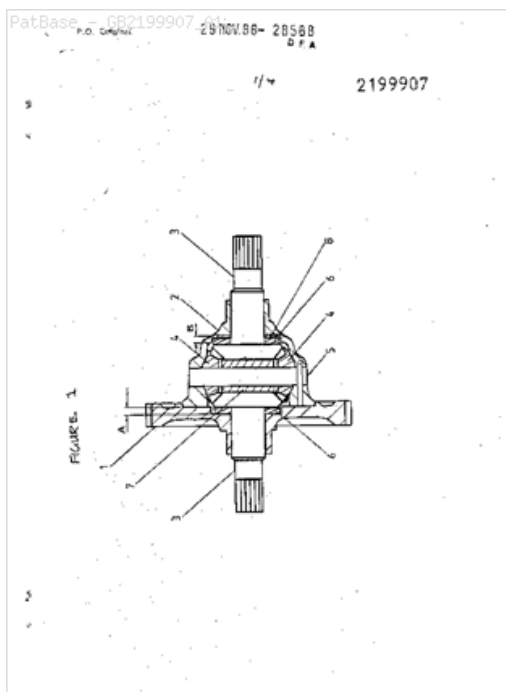
Classifications:

International (IPC 8-9): F16H48/20 (Advanced/Invention)

International (IPC 1-7): F16H1/44

CPC: F16H48/08 F16H48/22 F16H48/40 F16H2048/085 F16H2048/382

European: F16H48/08 F16H48/22 R16H48/08S R16H48/38M
R16H48/40



Family:

Publication number	Publication date	Application number	Application date
GB2199907 A1	19880720	GB19860028588	19861129
GB8628588 A0	19870107	GB19860028588	19861129

Priority:

GB19860028588 19861129

Probable Assignee: MCCARTER A

Assignee(s): (std): MCCARTER A ; MCCARTER ALISTAIR

Assignee(s): ALISTAIR MCCARTER

Inventor(s): (std): MCCARTER ALISTAIR

Inventor(s): ALISTAIR MCCARTER

8) Family number: 3829419 (US5119567A)

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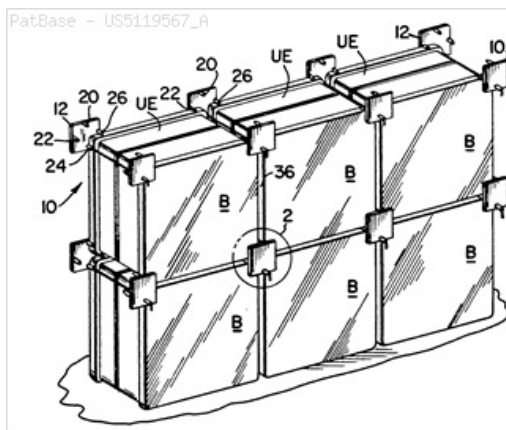
Title: Glass block spacing tool and method

Abstract: Source: US5119567A A reusable spacer tool comprises a pair of opposed spacer members each having a plurality of ears projecting from a base portion toward the opposite member, the ears being arranged for reception in the joints between adjacent blocks to space apart edges of the blocks when the spacer members overlies opposite faces of the block at the corners, and tie means extending between the spacer members and removably secured thereto releasably hold the members against opposite faces of the blocks.

Classifications:

International (IPC 8-9): E04B1/35 E04C1/42

E04F21/18 (Advanced/Invention);
E04C1/00 E04F21/18 (Core/Invention)
International (ipc 1-7): E04B1/35 F04G17/075 F04G21/18 G01B3/30
G01B5/14
CPC: E04C1/42 E04F21/1883
European: E04C1/42 E04F21/18D4
US: 249/214 33/518 33/526 335/260 52/509 52/712



Family:

Publication number	Publication date	Application number	Application date
CA2048284 AA	19920202	CA19912048284	19910801
US5119567 A	19920609	US19900561195	19900801

Priority:

CA19912048284 19910801 US19900561195 19900801

Probable Assignee: TREND PRODUCTS INC

Assignee(s): (std): TREND PRODUCTS INC

Assignee(s): FOX ROBERT E

Inventor(s): (std): FOX ROBERT E

Agent(s): MACRAE AND CO

9) Family number: 9969510 (SU1755241A)

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Title: METHOD OF MANUFACTURING LENS OPTIC SYSTEM

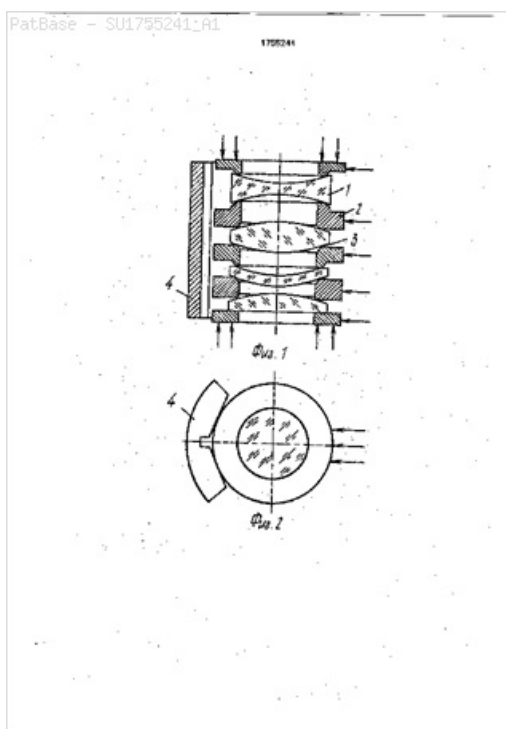
Abstract: Source: SU1755241A Use1 technology of optical instrumentation, namely a method of manufacturing (assembly and alignment) lens optical systems, such as lenses. SUMMARY OF THE INVENTION: the formation of the optical block spacer rings set with pressing on to their grand m technological prism parts lens compression moved their adjacent rings to eliminate the gap between the lenses and rings, fixed optical unit with additional technological devices, subtends it alternately in the radial and axial directions to complete all mating parts, and after fixing the control unit binder material free from technology and parts installed in the housing. 4 yl.

Classifications:

International (ipc 8-9): G02B7/02 (Advanced/Invention);

G02B7/02 (Core/Invention)

International (ipc 1-7): G02B7/02



Family:

Publication number	Publication date	Application number	Application date
SU1755241 A1	19920815	SU19904886954	19901130

Priority:

SU19904886954 19901130

Probable Assignee: PROIZV OB GEOFIZIKA N

Assignee(s): (std): PROIZV OB GEOFIZIKA N

Assignee(s): N PROIZV OB GEOFIZIKA

Inventor(s): (std) FOMIN ALEKSEJ A ; POZDNOV SERGEJ V ; SERGEEV ANATOLIJ A ; SVOBODA LYUDMILA V

Inventor(s): SVOBODA LYUDMILA V SU ; SERGEEV ANATOLIJ A SU ; POZDNOV SERGEJ V SU ; FOMIN ALEKSEJ A SU

10) Family number: 15009940 (US5433098A)

Title: Method and apparatus for inside can base reforming

Abstract: Source: US5433098A An apparatus and method is shown for reforming the bottom of a container. A number of tooling rams each have a reforming roller supported by a roller mounting block that allows the reforming roller to travel along a circular orbital path of varying diameter in a plane perpendicular to the roller mounting block axis and having a center of curvature position coextensive with the container axis. Guide cams that slide along cam surfaces formed in slots in the roller mounting block are supported on a cam mounting block. The cam mounting block is supported on a tooling drive shaft that rotates the cam mounting block about its axis coextensive with the container axis while the tooling drive shaft is supported rotatably in and moved axially with a tooling ram that moves axially toward or away from the container. Axial and rotational movement of the cam mounting block is converted to radial and rotational movement of the reforming roller through the interaction of the guide cams with the roller mounting block.

Classifications:

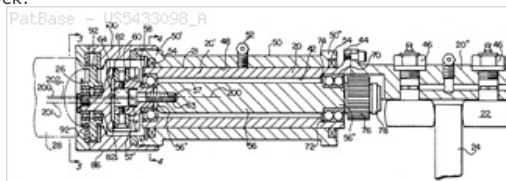
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B21D51/26 (Core/Invention)

International (IPC 1-7): B21D51/26

CPC: B21D51/26 B21D22/30

European: B21D22/30 B21D51/26

US: 72/117 72/122 72/123 72/126



Family:

Publication number	Publication date	Application number	Application date
AU199654268 A1	19961129	AU19960054268	19960322
US5433098 A	19950718	US19940189241	19940131
US5704241 A	19980106	US19960590335	19960123
US5706686 A	19980113	US19960610655	19960304
WO9635530 A1	19961114	WO1996US03872	19960322

Priority:

US19940189241	19940131	US19940268812	19940630	WO1996US03872	19960322
US19960610655	19960304	US19960590335	19960123	US19950436819	19950508

Probable Assignee: BELVAC PRODUCTION MACHINERY INC

Assignee(s): (std): CAPITAL FORMATION INC ; BELGIUM TOOL AND DIE CO ; DELAWARE CAPITAL FORMATION INC

Assignee(s): BELGIUM TOOL AND DIE COMPANY ; BELVAC PRODUCTION MACHINERY INC ; DELAWARE CAPTIAL FORMATION INC ; CLOVE PARK INSURANCE CO ; CP FORMATION LLC ; BALL CORP

Inventor(s): (std): ALEXANDER A HENZEL ; BABBITT TERRY ; BOWLIN GEOFFREY R ; HENZEL ALEXANDER A ; JENTZSCH KEVIN REED ; KEVIN REED JENTZSCH ; TERRY BABBITT

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG MK ML MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN

11) Family number: 12445879 (US5501829A)

Title: Method of manufacturing a trim panel using core block spacer means

Abstract: Source: US5501829A A door trim panel component that has a nominal thickness includes an arm rest that has a die locked pocket for opening the door. The die locked pocket has a wall that is substantially thicker than the nominal thickness of the trim panel component to provide a comfortable hand grip. The door trim panel is molded with the aid of a preformed core block that is embedded in the hand grip to reduce the effective thickness of the hand grip during the molding process. The preformed core block is configured with a stand-off feature that facilitates molding and demolding the door trim panel.

Classifications:

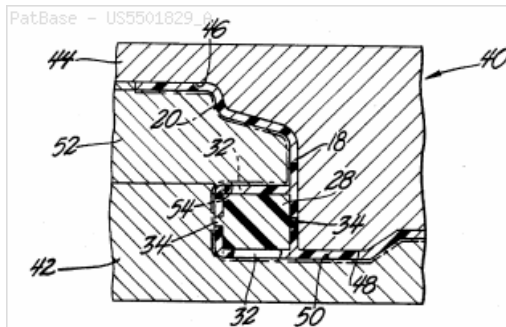
International (IPC 8-9): B29C33/12 B29C33/42
B29C33/44 (Advanced/Invention)

International (IPC 1-7): B28B7/20 B29C33/30

CPC: B29C33/123 B29C33/42 B29C33/44 B29L2031/3029

European: B29C33/12B B29C33/42 B29C33/44 L29L31/30B16

US: 264/261 264/263 264/271.1 264/275 264/277 264/318



Family:

Publication number	Publication date	Application number	Application date
US5501829 A	19960326	US19940289526	19940812

Priority:

US19940289526 19940812

Probable Assignee:	DAVIDSON TEXTRON INC
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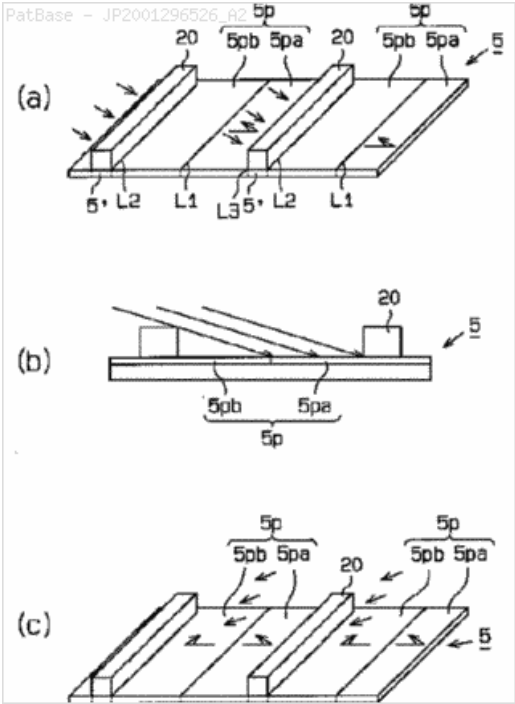
Assignee(s): (std): DAVIDSON TEXTRON INC

12) Family number: 15752595 (JP2001296526A) PatBase

Title: LIQUID CRYSTAL DISPLAY DEVICE AND METHOD FOR FORMING MULTIDOMAIN

Abstract: Source: JP2001296526A PROBLEM TO BE SOLVED: To provide a liquid crystal display device having such a structure that even when a multidomain structure is to be formed by a photoaligning process, it is more easily formed and to provide a method for forming the multidomain structure. SOLUTION: Each pixel region 5p of the alignment film 5 consisting of a photoaligning film is divided into a first domain 5pa and a second domain 5pb having different aligning directions from each other. A block type spacer 20 is formed along every other border line L2 of the domains 5pa, 5pb adjacent to each other. The first domain 5pa is subjected to the alignment treatment by oblique irradiation of light by using each block spacer 20 as a mask. Also the second domain 5pb is subjected to the alignment treatment by oblique irradiation of light by using each block spacer 20 as a mask.

Classifications:
International (IPC 8-9): G02F1/1337
G02F1/1339 (Advanced/Invention);
G02F1/13 (Core/Invention)
International (IPC 1-7): G02F1/1337 G02F1/1339



Family:

Publication number	Publication date	Application number	Application date
JP2001296526 A2	20011026	JP20000112307	20000413

Priority:
JP20000112307 20000413

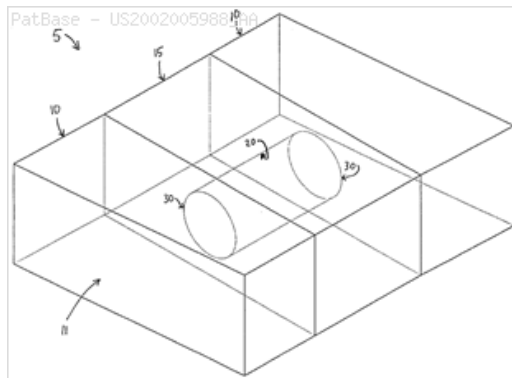
Probable Assignee: SANYO ELECTRIC CO
Assignee(s): (std): SANYO ELECTRIC CO
Assignee(s): SANYO ELECTRIC CO LTD
Inventor(s): (std): SASAKI TERUSHI

13) Family number: 28170359 (US2002005988A) PatBase

Title: Microetalon for DWDM telecommunications applications

Abstract: Source: US2002005988A An etalon comprising a first plate and a second plate positioned in parallel to one another and separated by a given distance, a single block spacer extending the given distance between the first plate and the second plate, and the single block spacer defining a chamber extending the given distance between the first plate and the second plate. A hermetically sealed etalon is also disclosed comprising a first plate and a second plate positioned in parallel to one another and separated by a given distance, a single block spacer extending the given distance between the first plate and the second plate, and the single block spacer defining a chamber extending the given distance between the first plate and the second plate, with the block spacer defining a first perimeter surrounding the chamber adjacent the first plate and a second perimeter surrounding the chamber adjacent the second plate, wherein the single block spacer surrounds the chamber along the given distance between the first plate and the second plate, and further wherein the single block spacer forms a first seal around the first perimeter adjacent the first plate and the single block spacer forms a second seal around the second perimeter adjacent the second plate, whereby to form the hermetically sealed etalon.

Classifications:
International (IPC 8-9): G02B5/28 G02B6/293 G02B6/34 G02F1/21
H04J14/02 (Advanced/Invention)
International (IPC 1-7): G01J3/45 G02F1/03 G02F1/21 H04J14/02
CPC: G02B5/284 G02B6/29358 G02B6/2938 G02B6/4215
European: G02B5/28 G02B5/28E G02B6/293110 G02B6/42C3W
S02B6/293W2
US: 356/519 356/519S 359/577 359/577P



Family:

Publication number	Publication date	Application number	Application date
CA2409176 AA	20021115	CA20012409176	20010517
EP1303783 A1	20030423	EP20010937484	20010517
US2002005988 AA	20020117	US20010859938	20010517
WO0188604 A1	20011122	WO2001US15918	20010517

Priority:

US20000204967P 20000517 US20010859938 20010517 WO2001US15918 20010517

Probable Assignee: BOOKHAM TECHNOLOGY PLC

Assignee(s): (std): CORETEK INC ; WATTERSON REICH

Assignee(s): DOWNES JOSE ; DUSKA CHRISTOPHER J ; MCCALLION KEVIN ; NORTEL NETWORKS CORP ; NORTEL NETWORKS UK LTD ; BOOKHAM (CANADA) INC ; BOOKHAM (SWITZERLAND) AG ; BOOKHAM (US) INC ; BOOKHAM ACQUISITION INC ; BOOKHAM AG ; BOOKHAM INC ; BOOKHAM TECHNOLOGY INC ; BOOKHAM TECHNOLOGY PLC

Inventor(s): (std): DOWNES JOSE ; DUSKA CHRISTOPHER J ; MCCALLION KEVIN ; WATTERSON REICH

Agent(s): MACRAE AND CO

Designated states: AT BE CA CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

14) Family number: 15406624 (US2004216409A)

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Title: BRICKLAYING DEVICE

Abstract: Source: US2004216409A A building block spacer (14) comprises a mat (16) having a plurality of spacer elements (18) provided thereon. The spacer is laid on a course of bricks (12), mortar is poured on top and a further course is then laid on the mortar. The spacers (18) ensure consistent and even spacing between courses of brickwork.

Classifications:

International (IPC 8-9): E04B2/02 E04B2/08

E04G21/18 (Advanced/Invention);

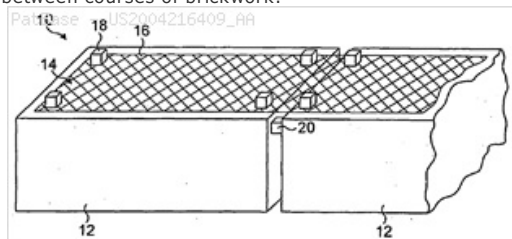
E04B2/02 E04B2/04 E04G21/18 (Core/Invention)

International (IPC 1-7): E04B2/08 E04C2/54 E04G21/18

CPC: E04B2/02 E04B2002/0282 E04G21/1841 E04G21/1883

European: E04B2/02 E04G21/18C P04B2/02N9A

US: 52/459 52/782.1



Family:

Publication number	Publication date	Application number	Application date
AT417975 E	20090115	AT20020722474T	20020430
DE60230402 D1	20090129	DE20026030402	20020430
EP1383974 A1	20040128	EP20020722474	20020430
EP1383974 B1	20081217	EP20020722474	20020430
GB200110849 A0	20010627	GB20010010849	20010503
US2004216409 AA	20041104	US20040476911	20040607
WO02090688 A1	20021114	WO2002GB02017	20020430

Priority:

GB20010010849 20010503 WO2002GB02017 20020430

Probable Assignee: HEWSON KEVIN

Assignee(s): (std): HEWSON K ; HEWSON KEVIN

Inventor(s): (std): HEWSON K ; HEWSON KEVIN

Agent(s): ROBERTS GWILYM VAUGHAN ET AL

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 LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

15) Family number: 28546367 (CN1417603A)

© PatBase

Title: Light waveguide and optical fiber coupling method and device for lithium niobate modulator

Abstract: Source: CN1417603A The coupling device of the present invention includes two pieces of proper fiber, fiber fixing block and fiber reinforcing block; spacer combination; LN waveguide chip; and package shell. The fiber with fiber fixing block and fiber reinforcing block is supported inside the package shell and has one end connected to side of the LN waveguide chip supported by spacer combination inside the shell and the other end extending beyond the shell and as the input or output interface, with the joint to the shell being adhered. By means of improved coupling technology and structure, the light waveguide in the modulator is coupled with fiber precisely and reliably with high stability, low additional loss, low light reflection, and insertion loss not affected by temperature change and mechanical vibration.

Classifications:

International (IPC 8-9): G02B6/26 G02F1/03 (Advanced/Invention);

G02B6/26 G02F1/01 (Core/Invention)

International (IPC 1-7): G02B6/26 G02F1/03

Family:

Publication number	Publication date	Application number	Application date
CN1238743 C	20060125	CN20011040593	20011111
CN1417603 A	20030514	CN20011040593	20011111

Priority:

CN20011040593 20011111

Probable Assignee: HUAWEI TECH CO LTD

Assignee(s): (std): HUAWEI TECH CO LTD ; HUAWEI TECHN CO LTD ; HUAWEI TECHNOLOGIES CO LTD

Assignee(s): HUAWEI TECHN CO

Inventor(s): (std): LI HANGUO PU ; YIZHI CAI ; TIANCHUN PU ; PU TIANCHUN ; LI HANGUO ; HANGUO PU LI ; HANGUO LI ; CAI YIZHI

16) Family number: 29213031 (US2003192256A)

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Title: APPARATUS AND METHOD FOR LOCATING A VEHICLE WINDOW PANEL

Abstract: Source: US2003192256A A window alignment device for use in a door having a recess and a peripheral edge and a window regulator is provided. A window panel is adjacent to the window regulator. The panel has a peripheral edge and a portion adapted to conform to the shape of the door and disposed in the recess of the door. Additionally, a locator member is adjacent to the peripheral edge; the locator member is disposed between the door and the window panel. When the panel is fixedly fastened to the regulator, the locator member is removed to form a predetermined gap between the edge of the window panel and the corresponding seal in the door or the body.

Classifications:

International (IPC 8-9): B60J1/17 E05F11/38 (Advanced/Invention);

B60J1/17 E05F11/38 (Core/Invention)

International (IPC 1-7): B25B27/14 B60J1/12

CPC: Y10T29/49826 Y10T29/53013 Y10T29/53061 Y10T29/53961

Y10T29/53983 B60J1/17 E05F11/382 E05F11/385 E05Y2600/50

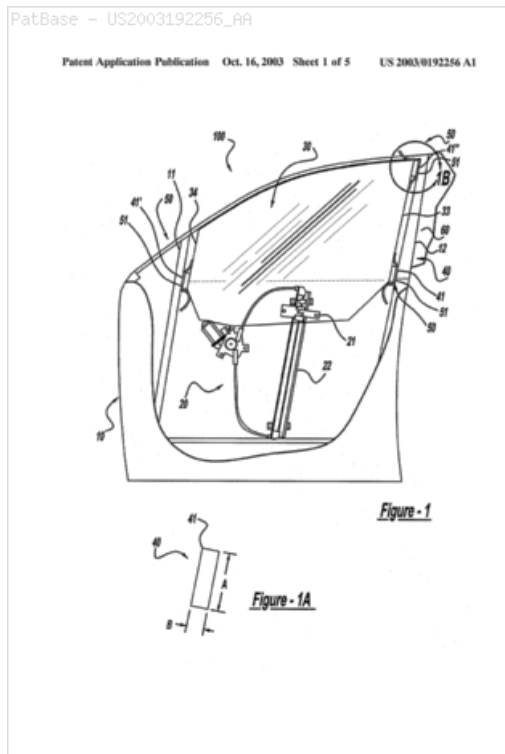
E05Y2800/12 E05Y2800/692 E05Y2900/55

European: B60J1/17 E05F11/38B P05F11/38B2 P05Y600/50

P05Y800/12 P05Y800/692 P05Y900/550

US: 2/928.11 2/971.4 29/281.1 29/281.6 29/428 29/428S 29/703

29/714 4/922.7 4/937.5 49/227 49/375 49/404 49/404P



Family:

Publication number	Publication date	Application number	Application date
US2003192256 AA	20031016	US20020122596	20020415
US6748638 BB	20040615	US20020122596	20020415

Priority:

US20020122596 20020415

Probable Assignee: DURA GLOBAL TECHNOLOGIES INC

Assignee(s): (std): DURA GLOBAL TECH INC ; DURA GLOBAL TECHNOLOGIES INC

Assignee(s): WILMINGTON TRUST CO COLLATERAL AGENT AS ; WILMINGTON TRUST CO ; DURA OPERATING CORP ; UNIVERSAL TOOL AND STAMPING CO INC ; KICZEK CASIMIR R ; LINIHAN MICHAEL G ; ATWOOD MOBILE PRODUCTS INC ; BANK OF AMERICA NA ; BANK OF AMERICA NA COLLATERAL AGENT AS ; DEDRICH PAUL M ; DURA AUTOMOTIVE SYSTEMS CABLE OPERATIONS INC ; DURA AUTOMOTIVE SYSTEMS INC

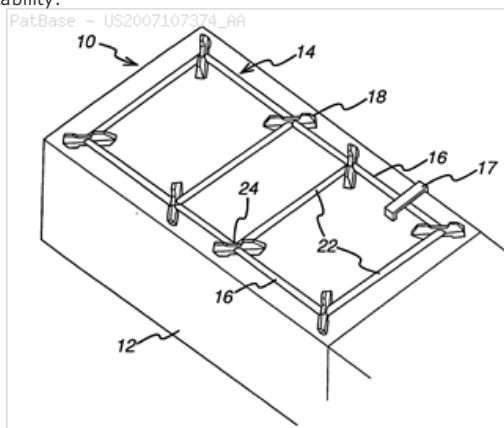
Inventor(s): (std): DEDRICH PAUL M ; DUFOUR WILLIAM T ; KICZEK CASIMIR R ; LINIHAN MICHAEL G

Title: BRICK LAYING DEVICE

Abstract: Source: US2007107374A A building block spacer mat (14) comprises a plurality of spacer elements (18) provided at intervals on a support structure (16, 22). Adjacent spacer elements, (18) are provided at 90 degrees to one another and 45 degrees to the support structure to provide additional structural stability.

Classifications:

International (IPC 8-9): E04D15/00 E04F21/00
E04G21/18 (Advanced/Invention);
E04D15/00 E04F21/00 E04G21/18 (Core/Invention)
International (IPC 1-7): E04G21/18
CPC: E04B2002/0282 E04G21/1841 E04G21/1883
European: E04G21/18C
US: 52/749.14



Family:

Publication number	Publication date	Application number	Application date
AU2004245736 AA	20041216	AU20040245736	20040601
CA2527427 AA	20051128	CA20042527427	20040601
CN1802482 A	20060712	CN200480015674	20040601
EP1641989 A1	20060405	EP20040735608	20040601
GB200312949 A0	20030709	GB20030012949	20030605
GB200401952 A0	20040303	GB20040001952	20040129
US2007107374 AA	20070517	US20040558991	20040601
WO04109040 A1	20041216	WO2004GB02300	20040601

Priority:

GB20030012949 20030605 GB20040001952 20040129 WO2004GB02300 20040601

Probable Assignee: BRIKMAT HOLDINGS LTD

Assignee(s): (std): BRIKMAT HOLDINGS LIMITED ; BRIKMAT HOLDINGS LTD ; HEWSON KEVIN

Inventor(s): (std): HEWSON KEVIN ; KEVIN HEWSON

Agent(s): BLAKE DAWSON PATENT ATTORNEYS; ASHURST AUSTRALIA; DIMOCK STRATTON LLP; PRICE HENEVELD COOPER DEWITT AND LITTON 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 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

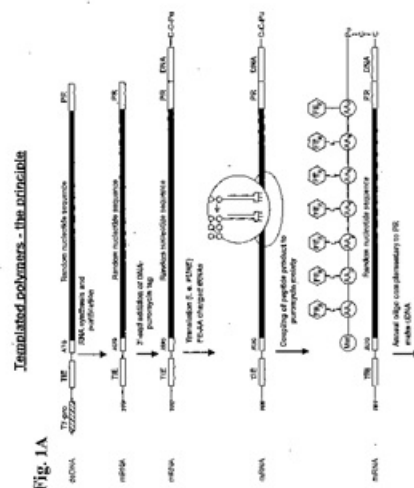
Title: ENCODED MOLECULES BY TRANSLATION (EMT)

Abstract: The present invention is directed to methods for the synthesis, selection, amplification and isolation of templated molecules having desirable properties. The invention makes it possible to synthesise a variety of different templated molecules other than alpha-peptides and modified alpha-peptides. In particular, the present invention enables synthesis of templated molecules such as beta -, ? -, ? peptides, carbopeptoids, vinyllogous peptides, oligoanthrilamides, oligoureases, azapeptides (azatides), oligocarbamates, PNA, oligopyrrolinones, vinyllogous sulfonamidopeptide, peptoids, azapeptoids and hydrazino peptides. It is possible in accordance with the methods of the invention to synthesise templated molecules comprising heterocyclic components, such as coumarins and quinolones, pyrazolone, isoxazolone, pyrimidiones, phthalhydrazides, diketopiperazines, hydantoins, and benzodiazepines.

Classifications:

International (IPC 8-9): C07B61/00 C12N15/10
C12N15/67 (Advanced/Invention);
C07B61/00 C12N15/10 C12N15/67 (Core/Invention)
International (IPC 1-7): C07B61/00 C12N15/10 C12N15/67
CPC: C12N15/1062 C12N15/1068 C12N15/67
European: C12N15/10 C12N15/10C C12N15/10C10 C12N15/10C8
C12N15/67

Fig. 1A



Publication number	Publication date	Application number	Application date
WO04110964 A2	20041223	WO2004DK00416	20040615
WO04110964 A3	20050331	WO2004DK00416	20040615

DK20030000893 20030616 US20030478343P 20030616

Assignee(s): (std): FRANCH THOMAS ; NUEVOLUTION AS ; PEDERSEN HENRIK

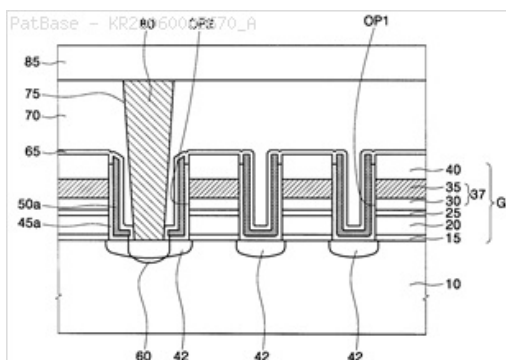
Inventor(s): (std): FRANCH THOMAS ; PEDERSEN HENRIK

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 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

19) Family number: 33620153 (KR20060005670A)

Abstract: Source: KR20060005670A A low temperature silicon nitride film disposer block spacer provides a method of manufacturing a semiconductor integrated circuit using the same. The surface of the semiconductor substrate a gate pattern across the top of a plurality of parallel. At this time, the region between the gate pattern having a first width and the first width of the first opening having a second width that is larger than the second opening. A semiconductor substrate having the gate patterns on the cone foam at a high temperature to form a silicon nitride film. The high temperature silicon nitride film on a semiconductor substrate to form a silicon nitride film low temperature. The low temperature silicon nitride film and the silicon nitride film at a high temperature, the anisotropic etching by the second opening and the spacers covering the sidewalls. The spacer is in turn laminated high-temperature and low-temperature characteristics of a silicon nitride film, a silicon nitride film pattern composed of a pattern. The semiconductor substrate having the spacers, implanting the impurity ions to form a source / drain region. The low temperature silicon nitride film pattern is removed by a wet etching process to expose the silicon nitride layer pattern is the high temperature. The exposed high temperature silicon nitride film on a semiconductor substrate having a pattern to form the interlayer insulating film. By low temperature silicon nitride film, a silicon nitride film, the disposer block spacer. the low dielectric film

International (IPC s-9): H01L27/115 (Advanced/Invention);
H01L27/115 (Advanced/Non-invention);
H01L27/115 (Core/Invention)
CPC: H01L21/82273 H01L21/76897 H01L27/11521 H01L21/823468
H01L21/823462



PatBase PDF Export - Page: 11 03/08/2017

Publication number	Publication date	Application number	Application date
KR20060005670 A	20060118	KR20040054547	20040713

Priority:

KR20040054547 20040713

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): AHN JAE YOUNG ; KIM HEE SEOK ; KIM JIN GYUN ; LIM JU WAN ; NO JIN TAE

20) Family number: 32564178 (US2006010709A)

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Title: CABINET DRYER DOOR WITH TRUSS AND METHOD OF USE

Abstract: Source: US2006010709A A cabinet dryer door includes a truss attached to the door to establish seal compression for adequate sealing of the door against the drying cabinet. The inner door has spacers molded into the inner door. The truss cooperates with the spacers to bias the door against the seal. The drying cabinet may utilize a pair of doors with at least one having a truss that establishes a seal compression in both of the doors. The truss is joined to the inner door by a screw located in the center of the truss. The method has the step securing a truss member to the door and curving the door to create a biasing force.

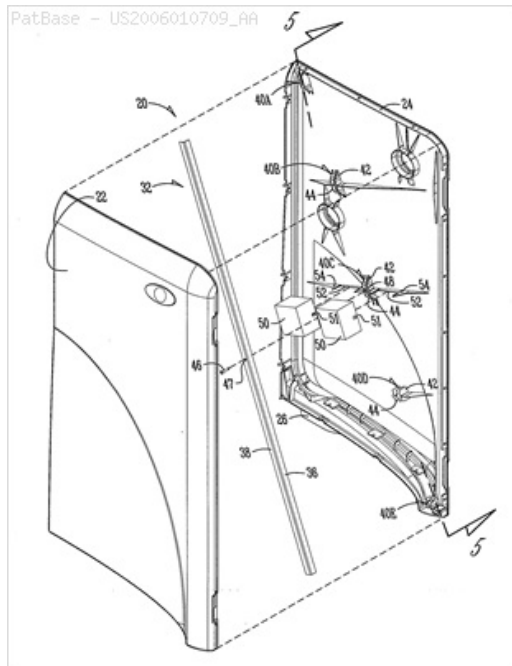
Classifications:

International (IPC 8-9): E04C2/34 E04C5/08 E06B3/50 F26B19/00 F26B25/06 (Advanced/Invention); E04C2/34 E04C5/00 E06B3/32 F26B19/00 F26B25/06 (Core/Invention)

CPC: D06F58/14

European: D06F58/14

US: 312/109 34/201 34/202 52/223.6 52/790.1



Family:

Publication number	Publication date	Application number	Application date
US2006010709 AA	20060119	US20040893476	20040716
US7412807 BB	20080819	US20040893476	20040716

Priority:

US20040893476 20040716

Probable Assignee: MAYTAG CORP

Assignee(s): (std): MAYTAG CORP ; WHIRLPOOL CO

Assignee(s): WHIRLPOOL CORP

Inventor(s): (std): JOHNSON TROY A ; KEELER JOSEPH M

Inventor(s): JOHNSON TROY ; KEELER JOSEPH

Agent(s): MCKEE VOORHEES AND SEASE PLC ATTN MAYTAG; GREEN CLIFTON; LAFRENZ MICHAEL D; MICHAEL D; CLIFTON

21) Family number: 33976201 (US2006272629A)

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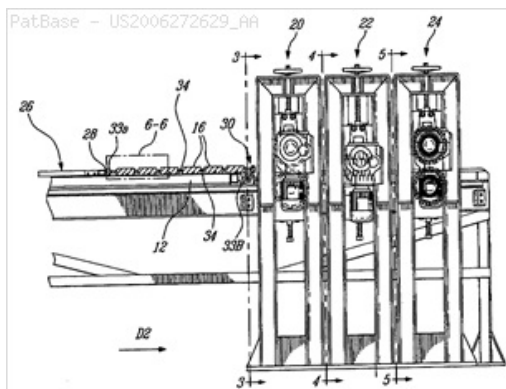
Title: MULTI-STATION BLOCK-TEXTURE MODIFYING SYSTEM AND BLOCK-SPACER

Abstract: Source: US2006272629A Disclosed herein is a block-texture-modifying apparatus for modifying the surface texture of blocks. The apparatus comprises a support for supporting blocks thereon, a multi-station block-texture modifier for engaging blocks on the support, and a translational displacer for imparting translational displacement between blocks on the support and the multi-station block-texture-modifier. The multi-station block-texture modifier comprises a pressure-applying station for applying a sustained pressure to blocks engaged thereby, and an impacting station for applying interrupted impact on blocks engaged thereby. The multi-station block-texture modifier modifies the surface texture of blocks on said support during said translational displacement. Also disclosed herein is a method for modifying the surface texture of blocks.

Classifications:

International (IPC 8-9): B24B1/00 B28B11/08 B28B11/10 B28B19/00 B28B7/00 B28D1/00 B29B11/08 B29C59/02 (Advanced/Invention); B24B1/00 B28B11/08 B28B19/00 B28B7/00 B28D1/00 B29B11/00 (Core/Invention)

CPC: B28B11/0872 B28B11/089 B24B1/007 B24B7/22 B28B11/0845 B28D1/26 B28B11/0818 B28B11/10 B28D1/006
European: B24B1/00F B24B7/22 B28B11/08B B28B11/08C B28B11/08F B28B11/08H B28B11/10 B28D1/00W B28D1/26
US: 1/1 125/23.01 125/26 125/26P 125/40 264/293 264/293P 425/328 425/328S 425/385 451/184 451/41 451/41S 451/465



Family:

Publication number	Publication date	Application number	Application date
CA2509064 AA	20061202	CA20052509064	20050602
CA2518188 AA	20061202	CA20052518188	20050907
CA2609557 AA	20071123	CA20062609557	20060602
CA2609557 C	20091027	CA20062609557	20060602
EP1885534 A1	20080213	EP20060790520	20060602
EP1885534 A4	20090729	EP20060790520	20060602
US2006272629 AA	20061207	US20050144193	20050603
US2008211138 AA	20080904	US20060915429	20060602
US2012032372 AA	20120209	US20110219003	20110826
US2013196018 AA	20130801	US20120726368	20121224
US7281537 BB	20071016	US20050144193	20050603
US8075297 BB	20111213	US20060915429	20060602
US9259854 BB	20160216	US20120726368	20121224
WO06136009 A1	20061228	WO2006CA00911	20060602

Priority:

CA20052509064	20050602	CA20052518188	20050907	CA20062609557	20060602
US20060915429	20060602	US20050144193	20050603	US20070915429	20071126
WO2006CA00911	20060602	US20110219003	20110826	US20120726368	20121224

Probable Assignee: RINOX INC

Assignee(s): (std): CORREIA HORACIO ; RINOX INC

Inventor(s): (std): CORREIA HORACIO

Agent(s): GOUDREAU GAGE DUBUC; JAUNEZ XAVIER ET AL; LADAS AND PARRY LLP; GONZALO

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

22) Family number: 43198191 (US2009107065A)

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

Abstract: Source: US2009107065A The present invention relates to an improved wall system where a wall form mold has a structural insulated core assembled to form a structural insulated panel (SIP) to form a concrete beam and concrete column to be poured anywhere within the wall as well as between building modules when placed together and erected vertically. The interlocking wall molds interlock within the wall as well as between panels and modules. The wall panels allow concrete columns and beams to be formed in any size and shape. The structural insulated core consists of interlocking foam spacers and support channels which can be glued or screwed together to form an independent wall or as part of a precast wall with columns and beams integrated within the wall panels. Insulated flanges within the wall forming mold separates the wall forming structure from the wall surfaces.

Classifications:

International (IPC 8-9): E04B1/00 E04B1/16 E04B1/18 E04B1/38

E04B1/64 E04B2/00 E04B2/08 E04B2/30 E04B2/32 E04B2/76

E04B2/84 E04B2/86 E04C1/42 E04C2/10 E04C2/20 E04C2/52

E04C3/09 E04G11/06 E04G9/00 (Advanced/Invention);

E04B2/86 E04C3/04 (Advanced/Non-invention);

E04B1/18 E04B2/04 E04G11/00 E04G9/00 (Core/Invention)

CPC: E04B1/164 E04B2/7412 E04B1/80 E04B2/58 E04B1/14

E04B1/165 E04B2/763 E04B2/8617 E04B2/8635 E04B2/8641

E04B2/8647 E04C3/09 E04C2003/0473

European: E04B1/14 E04B1/16C E04B1/16D E04B1/80 E04B2/58

E04B2/76C1 E04C3/09 P04B2/74C2P P04B2/86E1 P04B2/86G

P04B2/86G1 P04B2/86H P04C3/04S3U

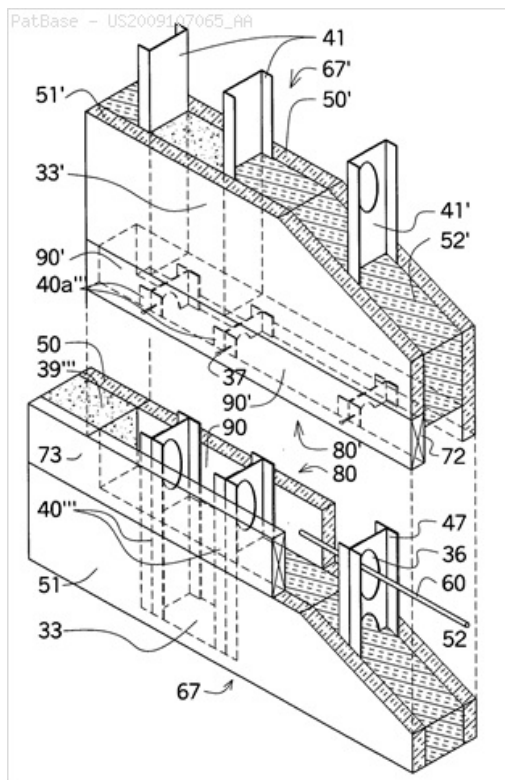
US: 249/19 249/192 249/192S 249/19S 52/220.1 52/220.100P

52/220.2 52/220.200P 52/252 52/252P 52/302.1 52/302.100P

52/309.11 52/309.12 52/309.4 52/309.400S 52/426 52/426P

52/426S 52/439 52/439P 52/479 52/479S 52/506.05 52/506.050P

52/588.1 52/588.100S 52/698 52/698S 52/762 52/762S



Family:

Publication number	Publication date	Application number	Application date
AU2009277150 AA	20100204	AU20090277150	20090727
IN00351MN2011 A	20110826	IN2011MN00351	20110223
US2009107065 AA	20090430	US20080231875	20080908
US2010058700 AA	20100311	US20090456707	20090622
US2012144765 AA	20120614	US20120398243	20120216
US2012144767 AA	20120614	US20120400103	20120219
US2012174512 AA	20120712	US20120398168	20120217
US2012186174 AA	20120726	US20120437630	20120402
US2012186180 AA	20120726	US20120437707	20120402
US8161699 BB	20120424	US20090456707	20090622
US8176696 BB	20120515	US20080231875	20080908
US8671637 BB	20140318	US20120400103	20120219
US8756889 BB	20140624	US20120398168	20120217
US8763331 BB	20140701	US20120437630	20120402
US8800227 BB	20140812	US20120437707	20120402
WO10014192 A1	20100204	WO2009US04335	20090727

Priority:

US20070000112P 20071024	US20080137224P 20080729	US20080231875 20080908
US20090208224P 20090223	US20090456707 20090622	US20090456707 20090722
WO2009US04335 20090727	US20110628044P 20111024	US20110629442P 20111118
US20120398243 20120216	US20120400103 20120219	US20120398168 20120217
US20120437707 20120402	US20120437630 20120402	

Probable Assignee: LEBLANG DENNIS WILLIAM

Assignee(s): (std): LEBLANG DENNIS ; LEBLANG DENNIS WILLIAM

Assignee(s): DENNIS LEBLANG

Inventor(s): (std): LEBLANG DENNIS ; LEBLANG DENNIS WILLIAM

Inventor(s): DENNIS LEBLANG

Agent(s): BAXTER IP; BAXTER PATENT ATTORNEYS PTY LTD; DENNIS LEBLANG

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 LR 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 ZA ZM ZW

23) Family number: 43216195 (US2009114626A)

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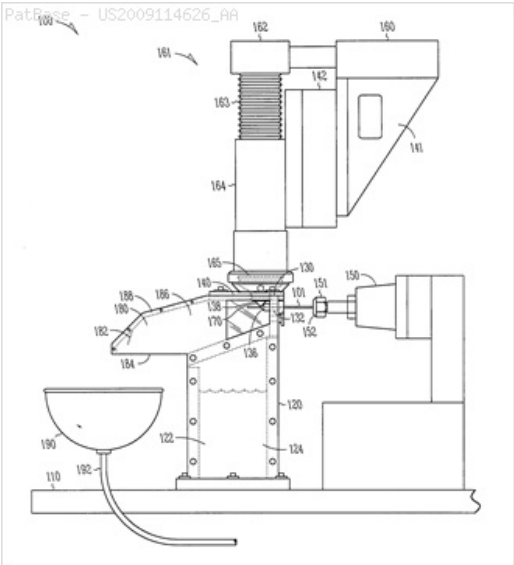
Title: APPARATUS AND METHOD FOR MACHINING TUBING

Abstract: Source: US2009114626A An apparatus for machining tubing includes a weighted base, an upright frame attached to the weighted base, and a laser light source attached to the weighted base. The apparatus also includes a guide bushing tooling attached to the upright frame which holds a guide bushing. A rotary drive bushing is aligned with the guide bushing holder. An optical assembly for focusing the laser light to a laser beam spot is also attached to the guide bushing tooling block. Spacer plates may be used to correctly space the optical assembly from the tubing material.

Classifications:

International (IPC 8-9): B23K26/00 B23K26/38 (Advanced/Invention); B23K26/00 (Core/Invention)

CPC: B23K26/0823 B23K26/083 B23K26/38
European: B23K26/08D B23K26/08E B23K26/38
US: 219/121.67 219/121.670P 219/121.72 219/121.720S 219/121.82



Family:

Publication number	Publication date	Application number	Application date
US2009114626 AA	20090507	US20070982014	20071101
US8076609 BB	20111213	US20070982014	20071101

Priority:

US20070982014 20071101

Probable Assignee: OBERG TROY
Assignee(s): (std): OBERG TROY
Inventor(s): (std): OBERG TROY
Agent(s): SCHWEGMAN LUNDBERG AND WOESSNER PA

24) Family number: 47677008 (US2012070235A)

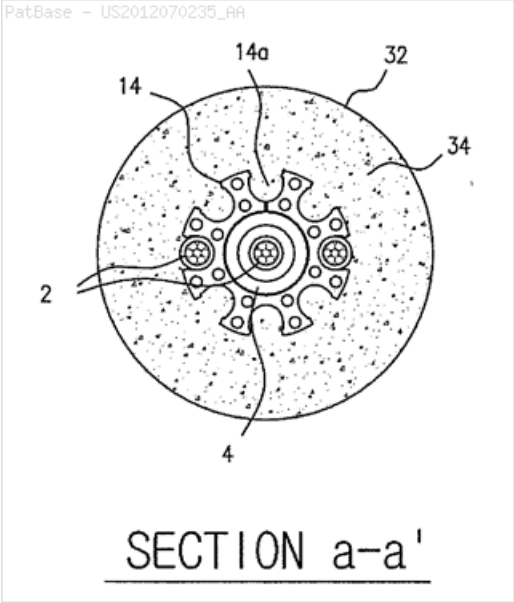
© PatBase

Title: TENSION DISPERSION-TYPE COMPLEX ANCHOR BODY WITH A REMOVABLE TENSION MEMBER, AND METHOD FOR CONSTRUCTING SAME

Abstract: Source: US2012070235A A tension dispersion type complex anchor device includes an internal fixing body having a tension member which is placed through a free length section to apply a tension force and a fixing block to which a wedge assembly for grasping a distal end of the tension member is mounted; a connection medium unit for mounting the internal fixing body to one end thereof; a grip sleeve coupled to the other end of the connection medium unit; and a permanent anchor fixed by being fitted into the grip sleeve to provide an allowable anchoring force through a bonded length section.

Classifications:

International (IPC 8-9): E02D17/20 E02D5/62 E02D5/74 E02D5/80 E04C5/12 E21D21/00 (Advanced/Invention); E02D5/80 E21D21/00 (Advanced/Non-invention)
International (IPC 1-7): E02D5/74 E02D5/80
CPC: E02D5/74 E02D5/80 E02D17/20 E02D2300/0034 E04C5/12 E21D21/00 E02D5/62 E02D2200/165 E02D2200/1685 F16B7/025
European: E02D5/74 E02D5/80
US: 405/259.4 405/259.400P



Family:

Publication number	Publication date	Application number	Application date
CN102428233 A	20120425	CN201080022000	20100520
CN102428233 B	20151125	CN201080022000	20100520
EP2434058 A2	20120328	EP20100777952	20100520
EP2434058 A4	20150909	EP20100777952	20100520
EP2434058 B1	20161026	EP20100777952	20100520
ES2609692 T3	20170421	ES20100777952T	20100520
KR101074085 B1	20111017	KR20090043796	20090520

KR101158417 B1	20120622	KR20090085561	20090910
KR20100124871 A	20101130	KR20090043796	20090520
KR20110027459 A	20110316	KR20090085561	20090910
MY158180 A	20160915	MY20110005565	20100520
US2012070235 AA	20120322	US20100321711	20100520
US8882395 BB	20141111	US20100321711	20100520
VN15426 A1	20160627	VN20110003187	20100520
WO10134765 A2	20101125	WO2010KR03192	20100520
WO10134765 A3	20110331	WO2010KR03192	20100520

Priority:

EP20100777952 20100520 KR20090043796 20090520 KR20090085561 20090910
WO2010KR03192 20100520

Probable Assignee: SAMWOO GEOTECH CO LTD

Assignee(s): (std): KIM JEONG RYEOL ; SAMWOO ANCHOR TECHNOLOGY CO LTD ; SAMWOO GEOTECH CO LTD

Assignee(s): SAMWOO GEOTECH CO ; SAMWOO ANCHOR TECHNOLOGY CO

Inventor(s): (std): KIM JEONG RYEOL ; JEONG RYEOL KIM

Agent(s): MAIWALD PATENTANWALTS GMBH; ROEB MARIA; IP AND T GROUP LLP; PARK YOUNG ZOON

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 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

25) Family number: 48323349 (EP2286947A1)

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Title: SAWING DEVICE FOR CUTTING METALLIC PLATES, AND ASSOCIATED METHOD

Abstract: The installation has an anti-pinching mechanism (6) and a sawing unit (1) provided with a blade and rectilinearly located in a sawing zone, where position of the sawing unit is adjustable in height. An elongated type spacer (62) i.e. strip, has thickness higher than thickness of a heel of the blade and ranging between thickness of the heel and waving amplitude of the blade. Maintaining units maintain the spacer at a distance fixed behind the blade and at height same as height of the blade during cutting. Grips (63) seize the spacer at its two longitudinal ends (624). An independent claim is also included for a method for horizontally cutting a plate in a block by a horizontal sawing installation.

Classifications:

International (IPC 8-9): B23D51/00 B23D53/02 B23D55/00
B23Q11/04 B26D1/02 (Advanced/Invention)

CPC: B23D53/026 B23D55/00

European: B23D53/02H B23D55/00

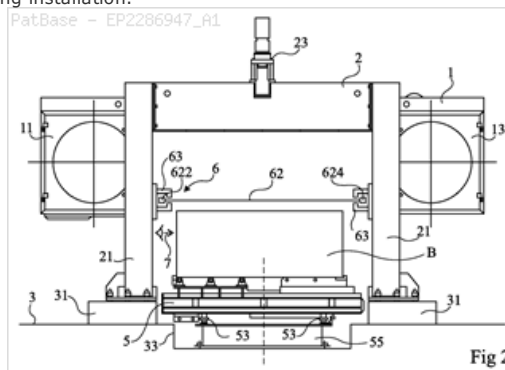


Fig 2

Family:

Publication number	Publication date	Application number	Application date
EP2286947 A1	20110223	EP20100172948	20100816
FR2949087 A1	20110218	FR20090055687	20090817
FR2949087 B1	20140919	FR20090055687	20090817

Priority:

FR20090055687 20090817

Probable Assignee: SERMAS IND

Assignee(s): (std): SERMAS IND

Assignee(s): SERMAS INDUSTRIE

Inventor(s): (std): SCHMITT BERNARD

Inventor(s): BERNARD SCHMITT

Agent(s): DE BEAUMONT MICHEL; CABINET BEAUMONT

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

26) Family number: 49052190 (CN201848431U)

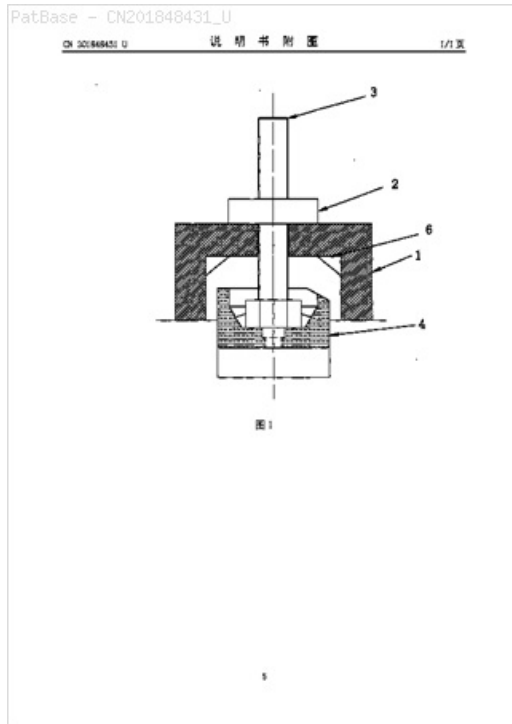
© PatBase

Title: Dismounting device for roll bearing block spacer cups

Abstract: Source: CN201848431U The utility model relates to a roll bearing block, in particular to a device for repairing a roll bearing block spacer cup. A dismounting device for roll bearing block spacer cups comprises a square cover which covers the spacer cup, a threaded hole is arranged at the center of the bottom of the cover, and a bolt screwed in the spacer cup passes through the threaded hole, and is fixed by a fastening nut. The utility model can simplify and facilitate the spacer cup-replacing method, saves the repair cost, and reduces the risk that the operative inefficiency of the bearing block affects on-site production.

Classifications:

International (IPC 8-9): B21B31/08 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN201848431 U	20110601	CN201020558748U	20101013

Priority:

CN201020558748U 20101013

Probable Assignee: SHANGHAI BAOSTEEL IND INS CORP

Assignee(s): (std): SHANGHAI BAOSTEEL IND INS CORP ; SHANGHAI BAOSTEEL IND INSPECTION CORP

Assignee(s): SHANGHAI BAOSTEEL INDUSTRY INSPECTION CORP

Inventor(s): (std): JIANYUE CHEN

Inventor(s): CHEN JIANYUE

27) Family number: 49457251 (US2011204679A)

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Title: DOOR SPACER BLOCK DESIGN FOR SIDE IMPACT PROTECTION

Abstract: Source: US2011204679A A strategically located door spacer block for transferring door beam bend/king away from the occupant seating position is provided. The door spacer block is positioned between the door inner panel and the door outer panel and is aligned with the door beam. The door spacer block of the disclosed invention is placed between door inner panel and the door outer panel with the intention of minimizing effect that the bend/kink in the door beam has on the occupant loading. The door spacer block engages the door beam and transfers the effective position of the kink of the door structure in a side impact away from the occupant seating position, thus freeing up crushable space in the occupant loading zone. The door spacer block of the disclosed invention eliminates or delays the loading of the beam surface to the pelvis bolster material, thus enabling additional free-crush space and allowing for a lower force transfer to the occupant.

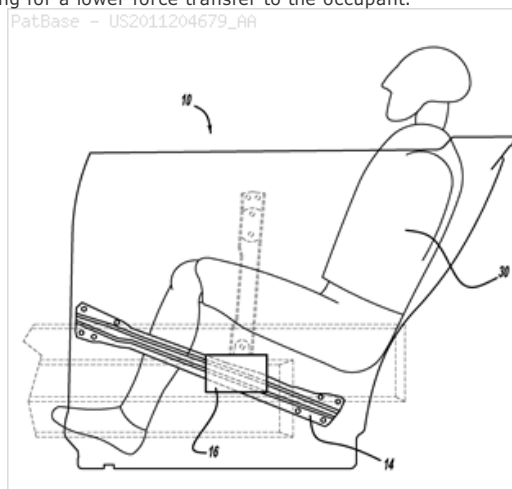
Classifications:

International (IPC 8-9): B60J5/00 B62D25/02 (Advanced/Invention)

CPC: B60J5/0451 B60J5/0461

European: B60J5/04E4 B60J5/04E8D

US: 296/146.6 296/187.12 296/187.120P



Family:

Publication number	Publication date	Application number	Application date
US2011204679 AA	20110825	US20100712259	20100225
US8272679 BB	20120925	US20100712259	20100225

Priority:

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC**Assignee(s):** (std): ABRAMCZYK JOSEPH EDWARD ; AMMONS MATTHEW ; DENG ZHIBING ; FORD GLOBAL TECH LLC ; MIDOUN DJAMAL EDDINE ; MATSON RICHARD LEE**Assignee(s):** FORD GLOBAL TECHNOLOGIES LLC**Inventor(s):** (std): ABRAMCZYK JOSEPH EDWARD ; AMMONS MATTHEW ; DENG ZHIBING ; MATSON RICHARD LEE ; MIDOUN DJAMAL EDDINE**Agent(s):** SHOOK HARDY AND BACON LLP**28) Family number: 50958190** (US2012098041A)

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Title: SELF-ALIGNED BODY FULLY ISOLATED DEVICE

Abstract: Source: US2012098041A A device having a self-aligned body on a first side of a gate is disclosed. The self-aligned body helps to achieve very low channel length for low $R_{ds(on)}$. The self-aligned body is isolated, enabling to bias the body at different bias potentials. The device may be configured into a finger architecture having a plurality of transistors with commonly coupled, sources, commonly coupled gates, and commonly coupled drains to achieve high drive current outputs.

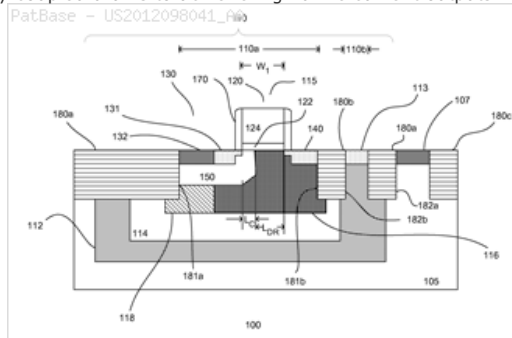
Classifications:

International (IPC 8-9): H01L21/28 H01L21/336 H01L21/76
H01L21/8238 H01L27/088 H01L27/092 H01L29/06 H01L29/10
H01L29/78 (Advanced/Invention)

CPC: H01L21/761 H01L21/26586 H01L21/743 H01L29/086
H01L29/0878 H01L29/1083 H01L29/1087 H01L29/1095 H01L29/456
H01L29/4933 H01L29/665 H01L29/66689 H01L29/7816

European: H01L21/74B H01L21/761 H01L29/10G
H01L29/66M6T6F14L2 H01L29/78B4 T01L21/265F T01L29/08E2D2C
T01L29/08E2D4C T01L29/10F2B2 T01L29/10F2B3 T01L29/45S
T01L29/49C2B T01L29/66M6T6F3

US: 257/288 257/288P 257/335 257/337 257/E21.409 257/E21.409S
257/E27.06 257/E29.255 257/E29.255S 257/E29.256 438/294
438/294S 438/299 438/301 438/306

**Family:**

Publication number	Publication date	Application number	Application date
CN102456605 A	20120516	CN201110319709	20111013
CN102456605 B	20141008	CN201110319709	20111013
DE102011084419 A1	20120426	DE201110084419	20111013
KR20120041108 A	20120430	KR20110083115	20110819
SG180079 A1	20120530	SG20110070117	20110927
SG191583 A1	20130731	SG20130037742	20110927
TW201218284 A	20120501	TW20110136703	20111011
TWI487035 B	20150601	TW20110136703	20111011
US2012098041 AA	20120426	US20100908860	20101020
US2013001688 AA	20130103	US20120609270	20120911
US8288235 BB	20121016	US20100908860	20101020
US8445960 BB	20130521	US20120609270	20120911

Priority:

US20100908860 20101020 US20120609270 20120911

Probable Assignee: GLOBALFOUNDRIES SINGAPORE PTE LTD**Assignee(s):** (std): GLOBAL FOUNDRIES SINGAPORE PTE LTD ; GLOBALFOUNDRIES SG PTE LTD ; VERMA PURAKH RAJ**Assignee(s):** GLOBALFOUNDRIES SINGAPORE PTE LTD**Inventor(s):** (std): PURAKH RAJ VERMA ; RAJ VERMA PURAKH ; VERMA PURAKH RAJ**Agent(s):** RODYK AND DAVIDSON LLP; HORIZON IP PTE LTD**29) Family number: 48145029** (US2013240193A)

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Title: METHOD OF MANUFACTURING A HEAT EXCHANGER BLOCK, SPACER MEANS THEREFOR, AND HEAT EXCHANGER BLOCK

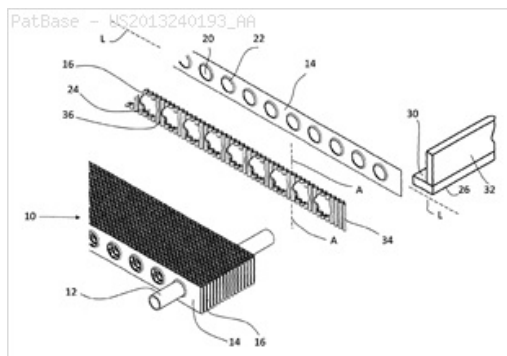
Abstract: Source: US2013240193A This invention relates to a method of manufacturing a heat exchanger block, to a spacer means for use in the method, and to a heat exchanger block. The heat exchanger block comprises a number of tubes and a number of fins, the fins having a predetermined spacing determined by the spacer means. The method includes the steps of locating the fins in a carrier and pressing the fins onto the tubes, and providing spacer means for the fins, whereby the spacer means supports a fin during the pressing step and determines the spacing between the fins in the assembled heat exchanger. Each of the fins has apertures for the tubes, the apertures engaging the tubes. Each of the spacer means has openings for the tubes, the openings being larger than the apertures.

Classifications:

International (IPC 8-9): B21D53/02 F28F1/12 F28F1/32
F28F13/00 (Advanced/Invention)

CPC: F28F1/12 F28F2215/00 F28F2215/04 F28F13/00 B21D53/02
F28F1/32 F28F2240/00 Y10T29/49378 Y10T29/53113

European: F28F1/32**US:** 165/182 165/185 29/726 29/890.046



Family:

Publication number	Publication date	Application number	Application date
CA2826650 AA	20130806	CA20122826650	20120208
CN103459967 A	20131218	CN201280007849	20120208
EP2673588 A1	20131218	EP20120707121	20120208
GB201018554 A0	20101215	GB20100018554	20101103
GB201102372 A0	20110330	GB20110002372	20110210
GB201121771 A0	20120201	GB20110021771	20111219
GB201306759 A0	20130529	GB20130006759	20111021
GB2498663 A1	20130724	GB20130006759	20111021
IN07235DN2013 A	20150123	IN2013DN07235	20130814
MX2013009242 A1	20131209	MX20130009242	20120208
US2013240193 AA	20130919	US20110879266	20111021
US2013306295 AA	20131121	US20120879150	20120208
WO12059735 A2	20120510	WO2011GB52054	20111021
WO12059735 A3	20120823	WO2011GB52054	20111021
WO12107757 A1	20120816	WO2012GB50271	20120208

Priority:

GB20100018554 20101103 GB20110002372 20110210 WO2011GB52054 20111021
GB20110021771 20111219 WO2012GB50271 20120208

Probable Assignee: PIERCE DAVID B

Assignee(s): (std): PIERCE DAVID B ; PIERCE DAVID BLAND ; POWER FIN TECHNOLOGIES LTD ; POWER FIN TECHNOLOGY LTD

Assignee(s): POWER FIN TECHNOLOGIES LIMITED ; POWER FIN TECHNOLOGY LIMITED

Inventor(s): (std): PIERCE DAVID BLAND

Inventor(s): DAVID BLAND PIERCE

Agent(s): ARMSTRONG R CRAIG; GEE STEVEN WILLIAM; GEE STEVEN

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 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

30) Family number: 52872380 (US2013026565A)

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Title: LOW RDSON RESISTANCE LDMOS

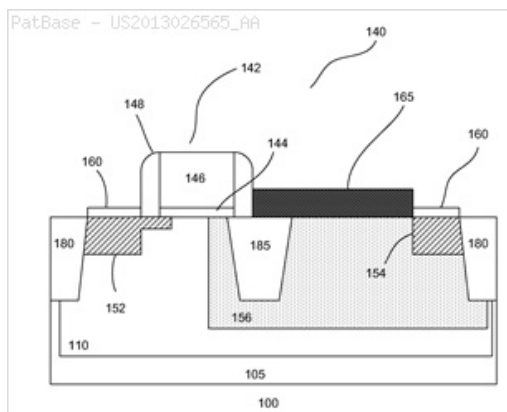
Abstract: Source: US2013026565A A device having a salicide block spacer on a second side of a gate is disclosed. The use of the salicide block spacer indirectly reduces the blocking effects during the implantation processes, thereby lowering the Rdson without compromising the breakdown voltage of the device.

Classifications:

International (IPC 8-9): H01L21/336 H01L29/78 (Advanced/Invention)

CPC: H01L29/66659 H01L29/0653 H01L29/7835

US: 257/335 257/E21.409 257/E29.255 438/289



Family:

Publication number	Publication date	Application number	Application date
US2013026565 AA	20130131	US20110189573	20110725

Priority:

US20110189573 20110725

Probable Assignee: GLOBALFOUNDRIES SINGAPORE PTE LTD

Assignee(s): (std): GLOBALFOUNDRIES SG PTE LTD ; VERMA PURAKH RAJ ; ZHANG GUOWEI

Assignee(s): GLOBALFOUNDRIES SINGAPORE PTE LTD

Inventor(s): (std): VERMA PURAKH RAJ ; ZHANG GUOWEI

31) Family number: 53725309 (US2013118507A)

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Title: BITE GUARD AND METHOD OF USE

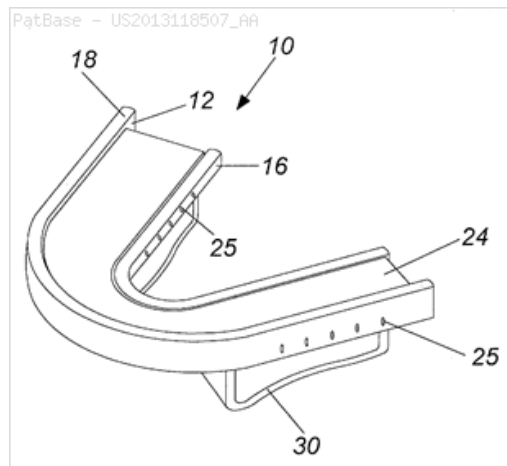
Abstract: Source: US2013118507A A bite guard to protect an individual's teeth, tongue, and/or mouth during medical procedures and tests. The bite guard is designed to be placed in an individual's mouth between the upper and lower set of teeth during certain medical procedures such as motor evoked potential (MEP) testing which is known to cause an individual's jaws muscles to contract. The present invention will protect the teeth, tongue and mouth of an individual by preventing the upper and lower teeth from coming in contact while maintaining a bridged opening for the placement of tubular inserts as well as maintain unobstructed breathing space.

Classifications:

International (IPC 8-9): A61B17/24 (Advanced/Invention)

CPC: A61B17/24 A61M16/0488 A61M16/0493

US: 128/859



Family:

Publication number	Publication date	Application number	Application date
US2013118507 AA	20130516	US20120676883	20121114

Priority:

US20110559420P 20111114 US20120676883 20121114

Probable Assignee: CHAPPUIS JAMES L

Assignee(s): (std): CHAPPUIS JAMES L

Inventor(s): (std): CHAPPUIS JAMES L

32) Family number: 58856001 (US2015089825A)

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Title: CONCRETE BLOCK SPACER SYSTEM

Abstract: Source: US2015089825A A method for aligning concrete masonry units for a concrete structure is disclosed. In the present method a plurality of concrete masonry units are provided. Each concrete masonry unit includes six sides, including a top and a bottom and preferably two cores or vertical voids therein. The top and bottom of the concrete masonry unit each include two lateral grooves along the length of the block. The lateral grooves are designed to accept the spacers provided in the present method. Spacers consist of a planar member and at least one finger. Planar member is inserted into the lateral groove of a concrete masonry unit for use. Once inserted the fingers of the spacer sit within a joint between the concrete masonry units.

Classifications:

International (IPC 8-9): E04B2/02 E04B2/08 E04B2/10 E04B2/18

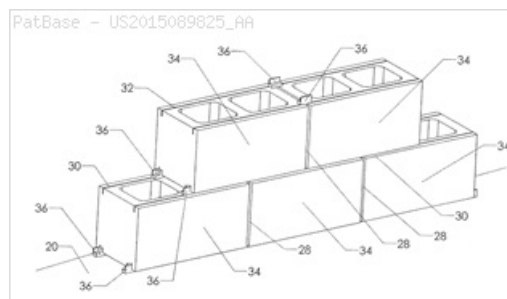
E04C1/00 E04G21/18 G01B3/30 G01B5/14

G01B5/25 (Advanced/Invention)

CPC: G01B3/30 E04B2/02 E04C1/00 E04B2/08 G01B5/14 G01B5/25

E04B2002/028 E04B2002/0282 E04B2/18

US: 1/1 33/518 52/747.12



Family:

Publication number	Publication date	Application number	Application date
AU2014329477 AA	20150409	AU20140329477	20141002
CA2926238 AA	20160401	CA20142926238	20141002
CN105658882 A	20160608	CN201480054556	20141002
CO16108132 A2	20161031	CO20160108132	20160428
EA201690689 A1	20161230	EA20160090689	20141002
EP3058149 A1	20160824	EP20140850741	20141002
EP3058149 A4	20170705	EP20140850741	20141002
IN201647014454 A	20160805	IN201647014454	20160426

MX2016004159 A1	20160921	MX20160004159	20141002
PH2016500804 A	20160613	PH20160500804	20160428
US2015089825 AA	20150402	US20130044342	20131002
US9086268 BB	20150721	US20130044342	20131002
WO15051147 A1	20150409	WO2014US58867	20141002

Priority:

US20130044342 20131002 WO2014US58867 20141002

Probable Assignee: JONES JONATHAN E

Assignee(s): (std): JONATHAN E JONES ; JONES JONATHAN E

Inventor(s): (std): JONATHAN E JONES ; JONES JONATHAN E

Agent(s): MADDERNS PATENT AND TRADE MARK ATTORNEYS; MILTONS IP PI; JOSE ANDRES RINCON USCATEGUI; SANTANDER MENDEZ PATRICIA VICTORIA; J WILEY; ADRIENNE C; LOVE ADRIENNE C

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

33) Family number: 61467754 (CN105252134A)

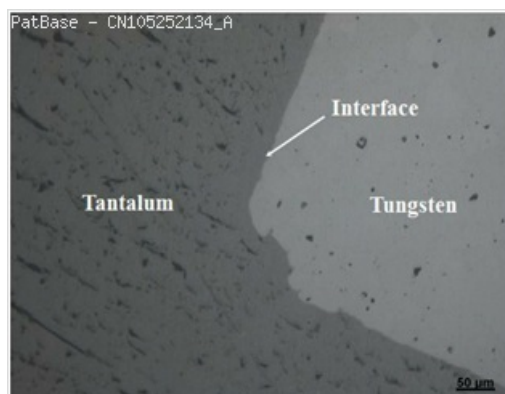
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Title: METHOD FOR WELDING TANTALUM LAYERS TO SIX FACES OF TUNGSTEN BLOCK IN DIFFUSION MANNER

Abstract: Source: CN105252134A The invention discloses a method for welding tantalum layers to six faces of a tungsten block in a diffusion manner. The method comprises the steps that an outer wrapping sleeve is made of at least one of titanium, iron and molybdenum and is provided with a cavity for containing the tungsten block, spacer sheets and tantalum sheets are sequentially laid on the inner wall of the cavity, and then the tungsten block is placed in the cavity; tantalum sheets and spacer sheets are sequentially laid on the surface of the part, on the end face of the outer wrapping sleeve, of the tungsten block, metal sheets are used for covering, and electron beam welding is carried out on the metal sheets and the outer wrapping sleeve under the vacuum condition; then hot isostatic pressure diffusion welding is carried out; and the outer wrapping sleeve is removed after welding is finished. According to the method, the tantalum sheets and the tungsten block are located through the outer wrapping sleeve, the step of manufacturing a tantalum box through electron beam welding is omitted, no air suction material is needed for wrapping, the technology is simple, and cost is low. Due to the spacer sheets, after diffusion welding is finished, products can be taken out very conveniently, simpleness and easy operation are achieved, the requirement for efficiently producing tantalum-tungsten composite materials in a batch manner can be met, and a basis is laid for research and wide application of spallation neutron sources.

Classifications:

International (IPC 8-9): B23K15/06 B23K20/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN105252134 A	20160120	CN201510725531	20151029

Priority:

CN201510725531 20151029

Probable Assignee: DONGGUAN NEUTRON SCIENCES CT

Assignee(s): (std): DONGGUAN NEUTRON SCIENCES CT ; BEIJING ANTAI ZHONGKE METAL MATERIAL CO LTD

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