

Search history

Search PA=(DAN PAL) (Results 31)

1:

Search INV=(MICHA BEN DAVID) (Results 4)

2:

Search INV=(MICHA BEN DAVID) and IC8=(E04B1/41) (Results 1)

3:

Search [SP]: field of the invention the present invention relates to extruded, modular panel units for the construction of walls, ceilings, roofs, canopies and windows, particularly of light-transmitting wall sections. more particularly, the present invention relates to assemblies for constructing such walls, ceilings, roofs, canopies and windows from a plurality of units while allowing for thermal expansion of the panels. background of the invention ep 949 390 discloses two generally co-planar panels supported almost edge-to-edge by an intermediate beam. a coupling member is captive to the beam by inter-engaging longitudinal formations and provides an interlocking engagement for the edges of the panels. opposite the coupling member the beam is proud of the panels and receives and retains a cap which seals against the panels. downwardly directed wings in the cap engage upwardly directed channels in a base thereof and prevent side walls of the cap from splaying apart.wo 2008/149344 in the name of the present applicant discloses an assembly for securing to a structure two juxtaposed panels, each including a first surface, an opposing second surface and a joining flange located at, or adjacent to, respective juxtaposed edges thereof. the assembly is particularly configured to prevent splaying apart of the juxtaposed panels under load and employs a retaining member that is fixedly mounted to the support structure and to which there is attached a clamping member having two spaced-apart legs depending from a web, each leg being configured to engage a respective exposed surface of an adjacent joining flange. a fastening means is provided for fastening the retaining member to a construction element that inhibits angular displacement of the panels when force is applied to either the first or second surfaces thereof.u.s. pat. no. 6,164,024 discloses a light transmissive glazing panel system for overhead roof constructions where glazing panels are supported on a framework and include upstanding seam flanges for connecting adjacent panels together with a joining connector. figs. 4 and 13 show arrangements where panels having upwardly projecting flanges on their mating edges are juxtaposed on opposite sides of aluminum support brackets that are bolted to the roof structure and a clamping member is then disposed on the projecting flanges to secure and seal the structure.the above publications are typical of prior art that discloses the mounting of extruded panels to a construction element. the linear coefficient of thermal expansion (α) of polycarbonate at 23 degrees centigrade is 65-70x10-6/ degrees centigrade, which is approximately three times that of aluminum for which a α at 20 degrees centigrade is 23x10-6/ degrees centigrade to the extent that some kind of retaining member is fixedly mounted to the construction element, it is to be understood that this is incapable of movement. but the polycarbonate panels mounted thereto do expand and contract, thus becoming subject to tensile and compressive forces. specifically, adjacent panels that expand will push against each other laterally, thus subjecting their respective mounts to compressive forces. this gives rise to high frictional forces between the panels and the mounts, which militates against thermal expansion of the panels in the longitudinal direction, which can cause buckling or other distortion of the panels.normally the clamping members are formed of the same or similar material to the panels, e.g. polycarbonate, such that the clamping members tend to expand at the same rate as the panels. therefore in structures such as shown in figs. 7, 8 and 11 of wo 2008/149344 where the clamping members are fixedly mounted to the support structure, and are thus restrained from expanding, the panels being tightly clamped by the clamping member are likewise unable to expand.u.s. pat. no. 6,536,175 discloses a panel assembly and joining elements having reciprocally engaged inclined surfaces facing inwards. fig. 7 of this patent discloses a polycarbonate jointing element fastened to a metal plate in the form of a track for connection to load bearing structures. however, the arrangement is not directed to the need to allow for longitudinal thermal expansion. moreover, in order to ensure a waterproof seal there is provided a pressing element having a conical shape at the tip, which is inserted between two downwardly projecting joining flanges of adjacent panels so as to urge the flanges apart and thus press them tightly against opposing internal walls of the polycarbonate jointing element. it is apparent from fig. 7 of the patent that this also urges the walls of the jointing element against the metal track thereby increasing friction between the track and the jointing element and militating against sliding of the jointing element within the metal track.ep 1 111 153 discloses a glazing system comprising a plurality of plastic glazing panels each having at least one edge region juxtaposed with the edge region of the other panel. the juxtaposed edges have an abutment extending transversely of the plane of each glazing panel. a support structure at least partially endoses the abutments to deter separation of the glazing panels from the support structure.us 2010/132293 discloses an internal structural mullion for a standing seam panel system. a two-piece assembly includes a main extrusion having one hooked portion and a secondary extrusion having an opposing hooked portion. a cavity is defined on the main extrusion, and the secondary extrusion includes a foot which upon insertion into the cavity forms a fulcrum about which the secondary extrusion can bend away from the main extrusion and be tightened or loosened by the tightening or loosening of a screw, as a result forming a clamp for engaging panels of the panel system with variable pressure.us 2003/188500 discloses a panel clip assembly for use with skylight or roof panel systems and having allowance for reduced movement of panels both parallel and perpendicular to the seam formed by adjoining panels.us 2005/102943 discloses a clip assembly for securing standing seam skylight or roofing panels to substrates and including a first clip member and a second clip member each having an upright member and an upper flange member and a lower flange member extending therefrom. a gap is formed between the upright member of the first clip member and the upright member of the second clip member and a base allows the assembly to slide.de 203 09 516 discloses a retainer comprising at least two polycarbonate plates forming chambers and a number of cross pieces with corresponding secure fixings. summary of the invention it is therefore a broad object of the present invention to provide an assembly consisting of extruded, modular panel units and a matching joining member for constructing walls, roofs and the like, that is better adapted than hitherto-proposed arrangements for allowing thermal expansion and contraction of the panels.in accordance with one aspect of the invention there is therefore provided an assembly having the features of claim 1 for securing a panel or two juxtaposed panels to a structure so as to allow unimpeded mutual sliding of the panel or panels relative to the structure. brief description of the drawings in order to understand the invention and to see how it may be carried out in practice, embodiments will now be described, by way of non-limiting example only, with reference to the accompanying drawings, in which: figs. 1 to 4 are cross-sectional views showing a panel assembly constructed according to variations of a first embodiment figs. 5 to 9 are cross-sectional views showing a panel assembly constructed according to variations of a second embodiment figs. 10 and 11 are cross-sectional views showing a panel assembly constructed according to variations of a third embodiment fig. 12 a is a cross-sectional view showing an alternative flange construction for use with any of the embodiments of figs. 1 to 9 fig. 12 b shows a detail of an integral securing element and retaining member used in the embodiment of fig. 12 a and figs. 13 and 14 are cross-sectional views showing a panel assembly constructed according to variations of a fourth embodiment. detailed description of embodiments in the following description of some embodiments, identical components that appear in more than one figure or that share similar functionality will be referenced by identical reference symbols. the invention may be realized using a number of different constructions and, therefore, the functionality of the invention will first be described with reference to fig. 1, after which different embodiments will be described with reference to the other figures. fig. 1 shows an assembly 10 for securing two juxtaposed panels 11 and 12 to a construction element (not shown) constituting a structure so as to allow mutual sliding of the panels relative to the structure. each of the panels 11 and 12 includes a first surface 13, an opposing second surface 14 and a joining flange 15 mounted in association with respective juxtaposed edges thereof. thus, as shown in fig. 1, the joining flanges 15 are located at the edges of the respective panels and are flush therewith. however, the flanges need not be flush with the edges of the panels and in some embodiments may project inwardly from the panel edges. the flanges 15 are clamped by a securing element 16 that limits lateral separation of the flanges and is formed of a material having a similar coefficient of expansion to the panel. typically, the panels 11, (Results 21)

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11:

Search 11 AND 5 (Results 14)
13:

Search (ASSEMBLY AND (JUXTAPOSED AND PANELS) AND (STRUCTURE AND THERMAL AND EXPANSION AND CONTRACTION)) (Results 11)
15:

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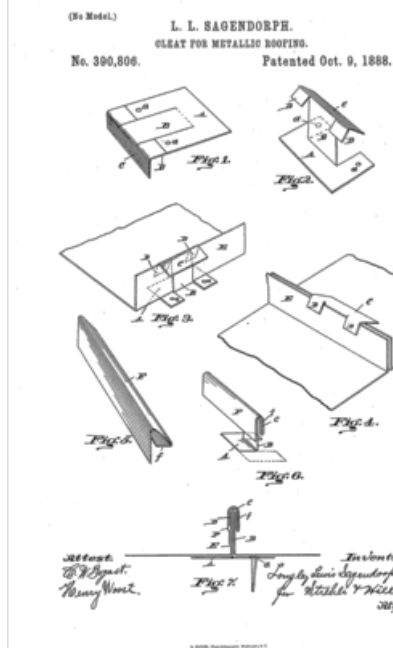
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Search 7 OR 22 (Results 29)
23:

Classifications:**CPC:** E04D3/366**US:** 52/466 52/520

PatBase - US390806_R

**Family:**

Publication number	Publication date	Application number	Application date
US390806 A	18881009		00000000

Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US390806 A	18881009	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Roof panel fastener and joint construction

Abstract: Source: US3998019A A roof panel joint construction and clip device for use therein to secure abutting edges of panels so that the clip and associated fastener is concealed and so that the panels are capable of expanding or contracting longitudinally due to thermal changes. Abutting edges of roof panels are crimped together with a lip portion of the clip positioned therebetween while the clip is secured to a purlin with a flange portion of the clip including an elongated slot and a spring clamping member positioned between the head of a fastener and the flange.

Classifications:

International (IPC 8-9): E04D3/361 E04D3/362 E04D3/365

E04D3/367 (Advanced/Invention);

E04D3/36 (Core/Invention)

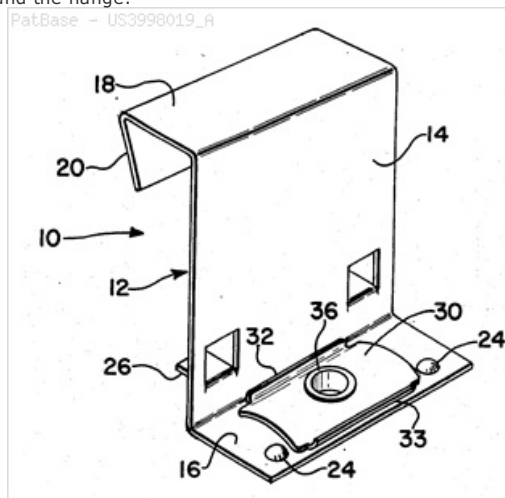
International (IPC 1-7): E04B1/40 E04B1/60 E04C2/08 E04C2/50

E04D11/00 E04D3/36 E04D3/362 E04D3/365

CPC: E04D3/362

European: E04D3/362

US: 52/478 52/520 52/545



Family:

Publication number	Publication date	Application number	Application date
CA1036784 A1	19780822	CA19760256950	19760714
DE2636491 A1	19770303	DE19762636491	19760813
ES450663 A1	19780116	ES19760450663	19760812
FR2321573 A1	19770318	FR19760025003	19760817
FR2321573 B3	19790511	FR19760025003	19760817
GB1553876 A	19791010	GB19760034125	19760817
IT1067090 A	19850312	IT19760025922	19760802
JP52023820 A2	19770223	JP19760096901	19760812
SE7609151 A	19770219	SE19760009151D	19760817
US3998019 A	19761221	US19750605473	19750818

Priority:

US19750605473 19750818

Probable Assignee: ILLINOIS TOOL WORKS

Assignee(s): (std): ILLINOIS TOOL WORKS

Assignee(s): ILLINOIS TOOL WORKS INC ; REINWALL ERNEST W

Inventor(s): (std): REINWALL ERNEST W JR ; REINWALL JR ERNEST WILLIAM ; REINWALL JUN ERNEST W ; AANESUTO UIRIAMU RAINUOORU JIY ; REINWALL JR E W

Inventor(s): AANESUTO UIRIAMU RAINUOORU JIYUNIA ; REINWALL ERNEST W ; W REINWALL JUN ; W REINWALL JUN ERNEST

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA1036784 A1	19780822	LSPB	+	published / reissued	
DE2636491 A1	19770303	LSPB	+	published / reissued	
DE2636491 A1	19790802	LSLE	-OHJ	NON-PAYMENT OF THE ANNUAL FEE	
FR2321573 A1	19770318	LSPB	+	published / reissued	
FR2321573 A1	19791019	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2321573 B3	19790511	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1553876 A	19791010	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1553876 A	19791228	LSGT	+PS	PATENT SEALED	
GB1553876 A	19810325	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	
IT1067090 A	19850312	LSGT	+	granted / extensions (spc, cpc, pte)	
JP52023820 A2	19770223	LSPB	+	published / reissued	
SE7609151 A	19770219	LSPB	+	published / reissued	
US3998019 A	19761221	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: LIGHT TRANSMITTING WALL PANELS

Abstract: Source: US4573300A There is provided an extruded, modular panel unit for the construction of wall-surface portions, especially of light-transmitting wall-surface portions. The panel comprises two sheet-like major surfaces interconnected and spaced apart by a plurality of web-like ribs dividing the space delimited by the major surfaces into a plurality of subspaces, and at least one joining flange extending in the direction of extrusion and projecting at an angle from an edge of the panel unit. In cross section, the sheet-like major surfaces and the ribs form a truss-like structure of which the major surfaces constitute the chords and the ribs constitute the webs.

Classifications:

International (IPC 8-9): C03C27/06 E04B5/46 E04C2/54 E04D3/06 E06B3/54 E06B3/58 E06B3/66 F16S1/02 (Advanced/Invention); E04D3/28 (Advanced/Non-invention); E04B5/46 E04D3/02 E06B3/54 F16S1/00 (Core/Invention)

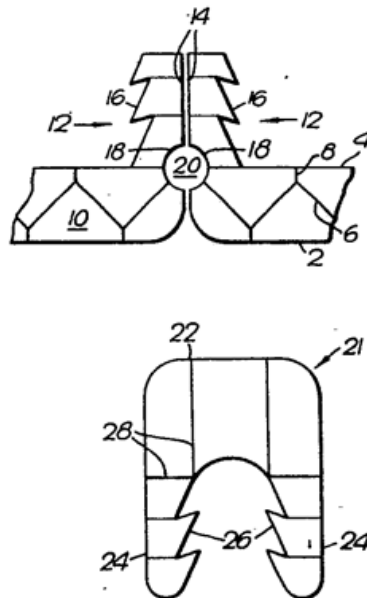
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CPC: Y10T428/24017 Y10T428/24149 E06B3/5828 E04C2/543 E04D2003/285 E04F2201/0115 E04F2201/0138

European: E04C2/54B E06B3/58B4B P04D3/28R P04F201/01A1 P04F201/01C

US: 428/100 428/116 428/16 52/413 52/563 52/581

PatBase - US4573300_A



Family:

Publication number	Publication date	Application number	Application date
AT11166 E	19850115	AT19810304745T	19811012
CA1185833 A1	19850423	CA19810388232	19811019
DE3168188 D1	19850221	DE19813168188	19811012
EP0050462 A1	19820428	EP19810304745	19811012
EP0050462 B1	19850109	EP19810304745	19811012
EP0050462 B2	19911002	EP19810304745	19811012
IL61314 A0	19801231	IL19800061314	19801020
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JP1657651 C3	19920421	JP19810166502	19811020
JP3019335 B4	19910314	JP19810166502	19811020
JP57161250 A2	19821004	JP19810166502	19811020
US4573300 A	19860304	US19810310422	19811009
USRE36976 E	20001205	US19960718723	19960924
ZA8107165 A	19821229	ZA19810007165	19811016

Priority:

CA19810388232 19811019 EP19810304745 19811012 US19960718723 19960924
US19810310422 19811009 IL19800061314 19801020

Probable Assignee: DAN PAL

Assignee(s): (std): DAN PAL TECHNICAL PLASTIC INDU ; DANNPARU TECHNICAL PURASUTEITS ; DAN PARU TEKUNIKARU PURASUTEIT ; DAN PAL ; DAN PAL TECH PLASTIC IND ; DAN PAL TECH PLASTIC IND FOR B

Assignee(s): DAN PAL TECH PLASTIC IND FOR BUILDING AND IND ; DAN PAL A PARTNERSHIP OF ISRAEL ; BEZNER BARUCH J ; DAN PAL TECHNICAL PLASTIC IND ; DAN PAL TECHNICAL PLASTIC INDUSTRY FOR BUILDING AN ; DAN PARU TEKUNIKARU PURASUTEITSUKU IND FUOO BIRUDE ; DAN PAL TECH PLASTIC IND FOR BUILDING AND INDUSTRY ; DAN PAL TECHNICAL PLASTIC INDUSTRY FOR BUILDING AND INDUSTRY ; DAN PAL TECHNICAL PLASTIC INDUSTRY FOR BUILDING AND INDUSTRY ; DAN PARU TEKUNIKARU PURASUTEITSUKU IND FUOO BIRUDEINGU ANDO IND ; DAN PAL TECHNICAL PLASTIC IND FOR BUILDING AND IND ; DAN PAL TECHNICAL PLASTIC IND FOR BUILDING AND INDUSTRY ; DANNPARU TECHNICAL PURASUTEITSUKU IND FUOO BIRUDEI ; DANNPARU TECHNICAL PURASUTEITSUKU IND FUOO BIRUDEINGU ANDO IND

Inventor(s): (std): BARAKU YOSEFU BETSUNAA ; BEZNER BARUCH J ; BEZNER BARUCH JOSEPH ; JOSEPH BEZNER BARUCH

Agent(s): RIDOUT AND MAYBEE LLP; WOLFF BREGMAN AND GOLLER

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

Legal status (INPADOC)

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Patent Date recorded Event group Code Event Details

AT11166 E 19850115 LSGT + granted / extensions

(spc, cpc, pte)						
AT11166 E	19850715	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES		
CA1185833 A1	19850423	LSPB	+	published / reissued		
CA1185833 A1	20020423	LSLE	-MKEX	EXPIRY		
DE3168188 D1	19860206	LSOP	-8363	OPPOSITION AGAINST THE PATENT		
DE3168188 D1	19911205	LSRE	+8368	OPPOSITION REFUSED DUE TO INADMISSIBILITY		
DE3168188 D1	19960125	LSOP	-8310	ACTION FOR DECLARATION OF ANNULMENT		
DE3168188 D1	19960321	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	OWNER NAME : DAN-PAL, KIBBUTZ DAN UPPER GALILEE, IL	
DE3168188 D1	19970430	LSRV	+8313	REQUEST FOR INVALIDATION REJECTED/WITHDRAWN		
EP0050462 A1	19820428	LSPB	+	published / reissued		
EP0050462 A1	19821222	LSSE	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19821015	
EP0050462 A1	19850109	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : AT EFFECTIVE DATE : 19850109	
EP0050462 A1	19851218	LSOP	-26	OPPOSITION FILED	OPPONENT NAME : ROEHM GMBH CHEMISCHE FABRIK EFFECTIVE DATE : 19851007	
EP0050462 A1	19860116	LSOP	-NLR1	NL: OPPOSITION HAS BEEN FILED WITH THE EPO	OPPONENT NAME : ROEHM GMBH CHEMISCHE FABRIK	
EP0050462 A1	19911002	LSRE	27A	MAINTAINED AS AMENDED	EFFECTIVE DATE : 19911002	
EP0050462 A1	19911031	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : AEN	
EP0050462 A1	19911202	LSOP	NLR2	NL: DECISION OF OPPOSITION		
EP0050462 A1	20001002	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20001002 YEAR OF FEE PAYMENT : 20	
EP0050462 A1	20001009	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20001009 YEAR OF FEE PAYMENT : 20	
EP0050462 A1	20001010	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20001010 YEAR OF FEE PAYMENT : 20	
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EP0050462 A1	20001011	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20001011 YEAR OF FEE PAYMENT : 20	
EP0050462 A1	20001026	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20001026 YEAR OF FEE PAYMENT : 20	
EP0050462 A1	20001214	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20001214 YEAR OF FEE PAYMENT : 20	
EP0050462 A1	20010101	LSLE	-BE20	BE: PATENT EXPIRED	DESCRIPTION : 20011012 *DAN-PAL TECHNICAL PLASTIC INDUSTRY FOR BUILDING AND INDUSTRY	
EP0050462 A1	20011011	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LI DESCRIPTION : LAPSE BECAUSE OF EXPIRATION OF PROTECTION EFFECTIVE DATE : 20011011	

EP0050462 A1	20011011	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GB DESCRIPTION : LAPSE BECAUSE OF EXPIRATION OF PROTECTION EFFECTIVE DATE : 20011011
EP0050462 A1	20011011	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CH DESCRIPTION : LAPSE BECAUSE OF EXPIRATION OF PROTECTION EFFECTIVE DATE : 20011011
EP0050462 A1	20011012	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NL DESCRIPTION : LAPSE BECAUSE OF EXPIRATION OF PROTECTION EFFECTIVE DATE : 20011012
EP0050462 A1	20011030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SE DESCRIPTION : THE PATENT HAS BEEN ANNULLED BY A DECISION OF A NATIONAL AUTHORITY EFFECTIVE DATE : 20011030
EP0050462 A1	20011031	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : PE20 EFFECTIVE DATE : 20011011
EP0050462 A1	20011115	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0050462 A1	20011203	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	REF DOCUMENT NUMBER : 81304745.3 FORMAT OF REF DOCUMENT (F/P) : F
EP0050462 A1	20011203	LSLE	-NLV7	NL: LAPSED DUE TO REACHING THE MAXIMUM LIFETIME OF A PATENT	EFFECTIVE DATE : 20011012
EP0050462 B1	19850109	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0050462 B2	19911002	LSGT	+	granted / extensions (spc, cpc, pte)	
IL61314 A0	19970415	LSAS	HC	CHANGE OF NAME OF PROPRIETOR(S)	
IL61314 A0	19990312	LSFE	+KB	PATENT RENEWED	
IL61314 A1	19840629	LSPB	+	published / reissued	
JP1657651 C3	19920421	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3019335 B4	19910314	LSPB	+	published / reissued	
JP57161250 A2	19821004	LSPB	+	published / reissued	
US4573300 A	19860304	LSGT	+	granted / extensions (spc, cpc, pte)	
US4573300 A	19811009	LSAS	AS	ASSIGNMENT	OWNER NAME : DAN-PAL, TECHNICAL PLASTIC INDUSTRY FOR BUILDING A DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:BEZNER, BARUCH J.; REEL/FRAME:003936/0354 EFFECTIVE DATE : 19810924
US4573300 A	19860102	LSGT	PAT1	Patented Case	
US4573300 A	19890825	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4573300 A	19930907	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4573300 A	19970903	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
USRE36976 E	20001115	LSGT	PAT1	Patented Case	
ZA8107165 A	19821229	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Clip connector for building panels having interlocked sections

Abstract: Source: US4522005A A clip connector for anchoring rigid interlocked panels to spaced supporting members. The clip includes a washer member slidably engaged on a base formed from the bottom of the upstanding clip web. The washer member is provided with an aperture extending therethrough exteriorly of the base. A fastener extends through the aperture and secures the washer member, in restrained but slidable engagement with the base, to a supporting member. Centering means may be provided on the clip web to position the washer member with respect to the base. Stop means may be provided at each edge of the base for limiting the movement of the base with respect to the washer member.

Classifications:

International (IPC 8-9): E04D3/362 (Advanced/Invention);

E04D3/361 (Advanced/Non-invention);

E04D3/36 (Core/Invention)

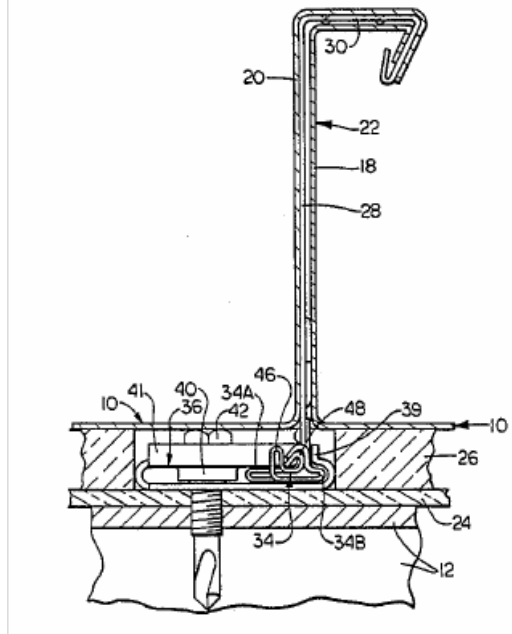
International (IPC 1-7): E04D1/34

CPC: E04D3/362 E04D2003/3615

European: E04D3/362 P04D3/361P

US: 52/520 52/528 52/544 52/547 52/713 525/440

PatBase - US4522005_R



Family:

Publication number	Publication date	Application number	Application date
US4522005 A	19850611	US19830545358	19831025

Priority:

US19830545358 19831025

Probable Assignee: ARMCO INC

Assignee(s): (std): ARMCO INC

Assignee(s): BTC ACQUISITION CORP ; FIRST NATIONAL BANK OF CHICAGO ; GLENFED CAPITAL CORP ; FIRST NATIONAL BANK OF BOSTON ; SECURITY PACIFIC BUSINESS CREDIT INC ; STEELOX SYSTEMS INC ; BUILDING TECHNOLOGIES CORP ; BTC ACQUISITION CORP A CORP OF DE ; BUILDING TECHNOLOGIES A CORP OF DELAWARE CORP ; WELLS FARGO BUSINESS CREDIT INC ; STEELOX SYSTEMS INC A DE CORP ; ARMCO ATLANTIC INC ; ARMCO ATLANTIC INC A CORP OF DE

Inventor(s): (std): MUELLER WARREN E ; SEABURG PAUL A

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4522005 A	19850611	LSGT	+	granted / extensions (spc, cpc, pte)	
US4522005 A	19831025	LSAS	AS	ASSIGNMENT	OWNER NAME : ARMCO INC., 703 CURTIS ST., MIDDLETOWN, OH. 45043 DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:SEABURG, PAUL A.; MUELLER, WARREN E.; REEL/FRAME:004188/0372 EFFECTIVE DATE : 19831014
US4522005 A	19850410	LSGT	PAT1	Patented Case	
US4522005 A	19850722	LSAS	AS	ASSIGNMENT	OWNER NAME : ARMCO ATLANTIC, INC., P.O. BOX 4665622, CINCINNATI DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:ARMCO INC.; REEL/FRAME:004433/0041 EFFECTIVE DATE : 19850715
US4522005 A	19860822	LSAS	AS	ASSIGNMENT	OWNER NAME : FIRST NATIONAL BANK OF CHICAGO, THE DESCRIPTION : SECURITY INTEREST; ASSIGNOR:ARMCO ATLANTIC, INC.;

					REEL/FRAME:004594/0698 EFFECTIVE DATE : 19860703
US4522005 A	19860822	LSAS	AS	ASSIGNMENT	OWNER NAME : FIRST NATIONAL BANK OF CHICAGO, THE,ILLINOIS DESCRIPTION : SECURITY INTEREST; ASSIGNOR:ARMCO ATLANTIC, INC.; REEL/FRAME:004594/0698 EFFECTIVE DATE : 19860703
US4522005 A	19870806	LSAS	AS	ASSIGNMENT	OWNER NAME : GLENFED CAPITAL CORP., THREE FIRST NATIONAL PLAZA, DESCRIPTION : SECURITY INTEREST; ASSIGNOR:BUILDING TECHNOLOGIES CORPORATION; REEL/FRAME:004754/0575 EFFECTIVE DATE : 19870724
US4522005 A	19871228	LSAS	AS	ASSIGNMENT	OWNER NAME : FIRST NATIONAL BANK OF BOSTON, THE, 100 FEDERAL ST DESCRIPTION : SECURITY INTEREST; ASSIGNOR:BUILDING TECHNOLOGIES CORPORATION; REEL/FRAME:004841/0816 EFFECTIVE DATE : 19871217
US4522005 A	19871228	LSAS	AS	ASSIGNMENT	OWNER NAME : FIRST NATIONAL BANK OF BOSTON, THE,MASSACHUSETTS DESCRIPTION : SECURITY INTEREST; ASSIGNOR:BUILDING TECHNOLOGIES CORPORATION; REEL/FRAME:004841/0816 EFFECTIVE DATE : 19871217
US4522005 A	19880824	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4522005 A	19891214	LSAS	AS	ASSIGNMENT	OWNER NAME : BTC ACQUISITION CORP., A CORP. OF DE, OHIO DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:BUILDING TECHNOLOGIES CORPORATION; REEL/FRAME:005197/0368 EFFECTIVE DATE : 19890530
US4522005 A	19900315	LSAS	AS	ASSIGNMENT	OWNER NAME : SECURITY PACIFIC BUSINESS CREDIT INC., CALIFORNIA DESCRIPTION : SECURITY INTEREST; ASSIGNOR:BTC ACQUISITION CORP.; REEL/FRAME:005250/0918 EFFECTIVE DATE : 19900213
US4522005 A	19920203	LSAS	AS	ASSIGNMENT	OWNER NAME : STEELOX SYSTEMS INC. A DE CORPORATION DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:BUILDING TECHNOLOGIES CORPORATION, A DE CORPORATION; REEL/FRAME:005996/0905 EFFECTIVE DATE : 19911213
US4522005 A	19920203	LSAS	AS	ASSIGNMENT	OWNER NAME : BUILDING TECHNOLOGIES CORPORATION A CORP. OF DEL DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:SECURITY PACIFIC BUSINESS CREDIT INC. A CORP. OF DELAWARE; REEL/FRAME:006002/0313 EFFECTIVE DATE : 19911213
US4522005 A	19920203	LSAS	AS	ASSIGNMENT	OWNER NAME : STEELOX SYSTEMS INC., STATELESS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BUILDING TECHNOLOGIES CORPORATION, A DE CORPORATION; REEL/FRAME:005996/0905 EFFECTIVE DATE : 19911213
US4522005 A	19921105	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4522005 A	19970608	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4522005 A	20021126	LSAS	AS	ASSIGNMENT	OWNER NAME : WELLS FARGO BUSINESS CREDIT, INC., WISCONSIN DESCRIPTION : SECURITY INTEREST; ASSIGNOR:STEELOX SYSTEMS, LLC; REEL/FRAME:013525/0551 EFFECTIVE DATE : 20020712

Title: Panel systems and installations

Abstract: Source: US4649684A Panel systems and installations thereof are provided wherein laterally opposite flanges of panel and flange means in the system form a gap with one another, and those flanges are adapted to be anchored to sub-structure, such as of a building, with the anchor means used for that purpose leading within the gap between the flanges and into grooves in the flanges which widen the gap locally between the flanges. Outer lateral ends of the anchored flanges are covered by cover means which engages engagable means of the panel and flange means.

Classifications:

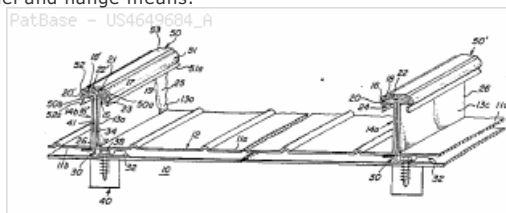
International (IPC 8-9): E04D3/366 (Advanced/Invention); E04D3/36 (Core/Invention)

International (IPC 1-7): E04B1/62 E04D1/34

CPC: E04D3/366

European: E04D3/366

US: 52/395 52/466 52/469 52/478 52/520



Family:

Publication number	Publication date	Application number	Application date
US4649684 A	19870317	US19850784462	19851004

Priority:

US19850784462 19851004

Probable Assignee: GARLAND IND

Assignee(s): (std): MM SYSTEMS CORP

Assignee(s): GARLAND IND ; INNOVATIVE METALS CO INC

Inventor(s): (std): ATTAWAY JULIAN J ; DRIGGERS RANDOLPH W ; PETREE LARRY M

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4649684 A	19870317	LSGT	+	granted / extensions (spc, cpc, pte)	
US4649684 A	19851004	LSAS	AS	ASSIGNMENT	OWNER NAME : MM SYSTEMS CORPORATION 4520 ELMDALE DRIVE TUCKER, DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:PETREE, LARRY M.; ATTAWAY, JULIAN J.; DRIGGERS, RANDOLPH W.; REEL/FRA:004466/0900 EFFECTIVE DATE : 19850919
US4649684 A	19870114	LSGT	PAT1	Patented Case	
US4649684 A	19900820	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4649684 A	19940919	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4649684 A	19941107	LSAS	AS	ASSIGNMENT	OWNER NAME : INNOVATIVE METALS COMPANY, INC., GEORGIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MM SYSTEMS CORPORATION; REEL/FRA:007189/0642 EFFECTIVE DATE : 19941013
US4649684 A	19980708	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US4649684 A	20051013	LSAS	AS	ASSIGNMENT	OWNER NAME : GARLAND INDUSTRIES, INC., OHIO DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:INNOVATIVE METALS COMPANY, INC.; REEL/FRA:016630/0805 EFFECTIVE DATE : 20050812

Title: METHOD FOR REDUCING THE NUMBER OF VOCODERS IN A WIRELESS NETWORK

Abstract: Source: US2002054571A A method is proposed for reducing the number of vocoders in a wireless network. In certain wireless networks mechanisms exist for bypassing the encoding and decoding of voice traffic at the base station, when both ends of the call are mobile subscribers. This is known as tandem-free operation. A method is proposed where other elements of the network instruct the base station to bypass the vocoding, even when the other end of the link is not a wireless subscriber. These elements could include a packet-switched network used for backhaul, or a terminating node such as a voicemail platform. The network element instructing the base station to bypass its vocoders will then be responsible for transcoding of the voice data. This eliminates the need for extra stages of vocoding.

Classifications:

International (IPC 8-9): G10L19/00 H04B7/26 H04J3/00 H04M3/00 H04M3/40 H04Q7/20 H04W24/02 H04W84/02

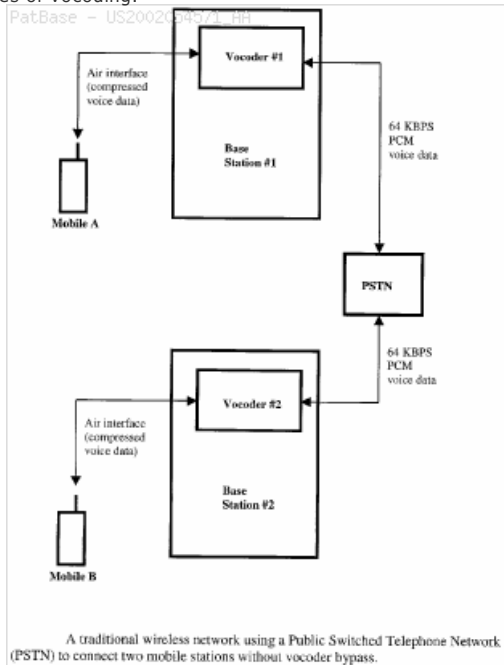
H04W88/18 (Advanced/Invention);
G10L19/12 G10L21/02 H04M7/12 (Advanced/Non-invention);
H04Q (Subclass/Invention)

International (IPC 1-7): G10L19/00 G10L9/14 H04B7/26 H04J3/00 H04J3/24 H04L1/00 H04M3/00 H04Q H04Q7/00 H04Q7/20 H04Q7/22 H04Q7/30 H04Q7/32

CPC: H04W88/181 H04M3/002 H04M3/40 H04M7/12 H04M2207/18 H04M2207/20 H04Q2213/13031 H04Q2213/13034 H04Q2213/13098 H04Q2213/1319 H04Q2213/13292

European: H04M3/40 H04W88/18C T04M207/18 T04M207/20 T04M3/00E T04M7/12 T04Q213/13031 T04Q213/13034 T04Q213/13098 T04Q213/13190 T04Q213/13292

US: 370/252 370/252P 370/287 370/328 370/352 370/352S 370/356 370/522 375/219 379/229 379/406.04 455/445 455/560

**Family:**

Publication number	Publication date	Application number	Application date
CA2207550 AA	19960627	CA19952207550	19951213
CA2207550 C	20110503	CA19952207550	19951213
CA2732583 AA	19960627	CA19952732583	19951213
CA2732583 C	20120904	CA19952732583	19951213
CN1123253 C	20031001	CN19951096891	19951213
CN1170492 A	19980114	CN19951096891	19951213
CN1487679 A	20040407	CN20031053061	19951213
DE69528847 D1	20021219	DE19956028847	19951213
DE69528847 T2	20030320	DE19956028847T	19951213
EP0799554 A1	19971008	EP19950940103	19951213
EP0799554 B1	20021113	EP19950940103	19951213
HK1005408 A1	20040716	HK19980104582	19980527
HK1063697 A3	20050107	HK20040106377	20040825
JP10500829 T2	19980120	JP19960519380T	19951213
JP2000232409 A2	20000822	JP20000020587	20000128
JP3638609 B2	20050413	JP19960519380T	19951213
MX9704512 A1	19971031	MX19970004512	19951213
US2002054571 AA	20020509	US20020033589	20020102
US5768308 A	19980616	US19940358949	19941219
US7023819 BB	20060404	US20020033589	20020102
WO9619907 A1	19960627	WO1995CA00704	19951213

Priority:

CA19952207550	19951213	CA19952732583	19951213	US20020033589	20020102
US19940358949	19941219	CA19952732583	19951213	JP19960519380	19951213
WO1995CA00704	19951213				

Probable Assignee: QUALITY WIRELESS NETWORKS LLC

Assignee(s): (std): NORTEL NETWORKS LTD ; NORTHERN TELECOM LTD ; NORTHRN TELECOM LTD ; FALSAFI ARAM

Assignee(s): NORTEL NETWORKS CORP ; 2256355 ONTARIO LTD ; BELL NORTHERN RESEARCH LTD ; BLACKBERRY LTD ; CHU CHUNG CHEUNG ; NORTEL NETWORKS LTD ST LAURENT ; ROCKSTAR BIDCO LP ; RESEARCH IN MOTION LTD ; RABIPPOUR RAFI ; PON HERMON ; QUALITY WIRELESS NETWORKS LLC

Inventor(s): (std): CHU CHUNG CHEUNG ; CHUNG CHEUNG CHU ; FALSAFI ARAM ; H PANG ; H PON ; HERMON PON ; PON H ; PON HERMON ; R LABIBOR ; R RABIPPOUR ; RABIPPOUR R ; RABIPPOUR RAFI ; RAFI RABIPPOUR ; ZHU ZHONGXIANG ; ZHONGXIANG ZHU ; PANG H ; LABIBOR R ; CHEUNG CHU CHUNG

Agent(s): BORDEN LADNER GERVAIS LLP; RIDOUT AND MAYBEE LLP

Designated states: AT BE CA CH CN DE DK ES FR GB GR IE IT JP LU MC MX NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2207550 AA	19960627	LSPB	+	published / reissued	
CA2207550 AA	19970611	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2207550 AA	20021030	LSES	+EEER	EXAMINATION REQUEST	
CA2207550 AA	20160215	LSLE	-MKEX	EXPIRY	EFFECTIVE DATE : 20151214
CA2207550 C	20110503	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2732583 AA	19960627	LSPB	+	published / reissued	
CA2732583 AA	20110222	LSES	+EEER	EXAMINATION REQUEST	
CA2732583 AA	20110329	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20110222
CA2732583 AA	20160215	LSLE	-MKEX	EXPIRY	EFFECTIVE DATE : 20151214
CA2732583 C	20120904	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1123253 C	20031001	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1123253 C	19980114	LSPB	+C06	PUBLICATION	
CN1123253 C	20000503	LSRE	C53	CORRECTION OF PATENT FOR INVENTION OR PATENT APPLICATION	
CN1123253 C	20000503	LSRE	COR	CHANGE OF BIBLIOGRAPHIC DATA	DESCRIPTION : CORRECT: APPLICANT; FROM: NORTHERN TELECOM LTD. TO: NORTEL NETWORKS LTD.
CN1123253 C	20031001	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1123253 C	20130213	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	OWNER NAME : 2256355 ONTARIO LIMITED DESCRIPTION : FORMER OWNER: YANXING BIDEKE CO., LTD. EFFECTIVE DATE : 20130109
CN1123253 C	20130213	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	OWNER NAME : RESEARCH IN MOTION LTD. DESCRIPTION : FORMER OWNER: 2256355 ONTARIO LIMITED EFFECTIVE DATE : 20130109
CN1123253 C	20130213	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	OWNER NAME : YANXING BIDEKE CO., LTD. DESCRIPTION : FORMER OWNER: NORTEL NETWORKS LTD (CA) EFFECTIVE DATE : 20130109
CN1123253 C	20130213	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN1123253 C	20160127	LSRV	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN1170492 A	19980114	LSPB	+	published / reissued	
CN1487679 A	20040407	LSPB	+	published / reissued	
CN1487679 A	20040407	LSPB	+C06	PUBLICATION	
CN1487679 A	20090701	LSRV	-C12	REJECTION OF A PATENT APPLICATION AFTER ITS PUBLICATION	
CN1487679 A	20110729	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : WD REF DOCUMENT NUMBER : 1063697 COUNTRY OF REF DOCUMENT : HK
DE69528847 D1	20130131	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	REF DOCUMENT NUMBER : 799554 COUNTRY OF REF DOCUMENT : EP OWNER NAME : RESEARCH IN MOTION LIMITED, CA

					DESCRIPTION : FORMER OWNER: NORTEL NETWORKS LTD., ST. LAURENT, CA EFFECTIVE DATE : 20121206	
DE69528847 T2	20030320	LSGT	+	granted / extensions (spc, cpc, pte)		
EP0799554 A1	19971008	LSPB	+	published / reissued		
EP0799554 A1	19971008	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19970721	
EP0799554 A1	19990714	LSAS	RAP3	CORRECTION OF THE ADDRESS OR NAME OF APPLICANT (A DOCUMENT)	OWNER NAME : NORTEL NETWORKS CORPORATION	
EP0799554 A1	19991208	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19991022	
EP0799554 A1	20000927	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	OWNER NAME : NORTEL NETWORKS LIMITED	
EP0799554 A1	20021113	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D	
EP0799554 A1	20031008	LSAS	RAP2	TRANSFER OF RIGHTS OF AN EP GRANTED PATENT	OWNER NAME : NORTEL NETWORKS LIMITED	
EP0799554 A1	20031105	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20030814	
EP0799554 A1	20090331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20081208 YEAR OF FEE PAYMENT : 14	
EP0799554 A1	20090331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20081208 YEAR OF FEE PAYMENT : 14	
EP0799554 A1	20090430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20081205 YEAR OF FEE PAYMENT : 14	
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EP0799554 A1	20130131	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 69528847 COUNTRY OF REF DOCUMENT : DE OWNER NAME : RESEARCH IN MOTION LIMITED, CA DESCRIPTION : FORMER OWNER: NORTEL NETWORKS LTD., ST. LAURENT, CA EFFECTIVE DATE : 20121206
EP0799554 A1	20130131	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 69528847 COUNTRY OF REF DOCUMENT : DE OWNER NAME : BLACKBERRY LIMITED, WATERLOO, CA DESCRIPTION : FORMER OWNER: NORTEL NETWORKS LTD., ST. LAURENT, QUEBEC, CA EFFECTIVE DATE : 20121206
EP0799554 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20130228 YEAR OF FEE PAYMENT : 18
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EP0799554 A1	20141106	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 69528847 COUNTRY OF REF DOCUMENT : DE OWNER NAME : BLACKBERRY LIMITED, WATERLOO, CA DESCRIPTION : FORMER OWNER: RESEARCH IN MOTION LIMITED, WATERLOO, ONTARIO, CA

						EFFECTIVE DATE : 20140925
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EP0799554 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20141230 YEAR OF FEE PAYMENT : 20	
EP0799554 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20150102 YEAR OF FEE PAYMENT : 20	
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EP0799554 A1	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GB DESCRIPTION : LAPSE BECAUSE OF EXPIRATION OF PROTECTION EFFECTIVE DATE : 20151212	
EP0799554 A1	20160202	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG	
EP0799554 B1	20021113	LSGT	+	granted / extensions (spc, cpc, pte)		
HK1005408 A1	20040716	LSGT	+	granted / extensions (spc, cpc, pte)		
HK1005408 A1	20041215	LSFE	+PF	PATENT IN FORCE		
HK1005408 A1	20151231	LSLE	-PE	PATENT EXPIRED	EFFECTIVE DATE : 20151212	
HK1063697 A3	20050107	LSPB	+	published / reissued		
JP10500829 T2	19980120	LSPB	+	published / reissued		
JP2000232409 A2	20000822	LSPB	+	published / reissued		
JP2000232409 A2	20040226	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20040219	
JP2000232409 A2	20040401	LSRV	-A02	DECISION OF REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20040331	
JP2000232409 A2	20040729	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20040728	
JP2000232409 A2	20040907	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A911 EFFECTIVE DATE : 20040906	
JP2000232409 A2	20041004	LSAL	-A912	REMOVAL OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A912 EFFECTIVE DATE : 20041001	
JP3638609 B2	20050413	LSGT	+	granted / extensions (spc, cpc, pte)		
JP3638609 B2	20040915	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20040914	
JP3638609 B2	20041122	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20041119	
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JP3638609 B2	20050121	LSGT	+R150	CERTIFICATE OF PATENT OR	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R150	

REGISTRATION OF UTILITY MODEL					
JP3638609 B2	20080117	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	DESCRIPTION : PAYMENT UNTIL: 20080121 YEAR OF FEE PAYMENT : 3
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JP3638609 B2	20120607	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R350
JP3638609 B2	20121227	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	DESCRIPTION : PAYMENT UNTIL: 20130121 YEAR OF FEE PAYMENT : 8
JP3638609 B2	20150120	LSFE	+R250	RECEIPT OF ANNUAL FEES	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R250
JP3638609 B2	20151213	LSLE	-EXPY	CANCELLATION BECAUSE OF COMPLETION OF TERM	
MX9704512 A1	19971031	LSPB	+	published / reissued	
US2002054571 AA	20020509	LSPB	+	published / reissued	
US5768308 A	19980616	LSGT	+	granted / extensions (spc, cpc, pte)	
US5768308 A	19950424	LSAS	AS	ASSIGNMENT	OWNER NAME : BELL-NORTHERN RESEARCH LTD., CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:RABIPOUR, RAFI; CHU, CHUNG-CHEUNG; REEL/FRAME:007450/0451 EFFECTIVE DATE : 19950301
US5768308 A	19950424	LSAS	AS	ASSIGNMENT	OWNER NAME : NORTHERN TELECOM LIMITED, CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BELL-NORTHERN RESEARCH LTD.; REEL/FRAME:007452/0037 EFFECTIVE DATE : 19950322
US5768308 A	19950424	LSAS	AS	ASSIGNMENT	OWNER NAME : NORTHERN TELECOM LIMITED, CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PON, HERMON; REEL/FRAME:007452/0030 EFFECTIVE DATE : 19950302
US5768308 A	19980604	LSGT	PAT1	Patented Case	
US5768308 A	19991223	LSAS	AS	ASSIGNMENT	OWNER NAME : NORTEL NETWORKS CORPORATION, CANADA DESCRIPTION : CHANGE OF NAME; ASSIGNOR:NORTHERN TELECOM LIMITED; REEL/FRAME:010567/0001 EFFECTIVE DATE : 19990429
US5768308 A	20000830	LSAS	AS	ASSIGNMENT	OWNER NAME : NORTEL NETWORKS LIMITED, CANADA DESCRIPTION : CHANGE OF

					NAME; ASSIGNOR:NORTEL NETWORKS CORPORATION; REEL/FRAME:011195/0706 EFFECTIVE DATE : 20000830
US5768308 A	20000830	LSAS	AS	ASSIGNMENT	OWNER NAME : NORTEL NETWORKS LIMITED,CANADA DESCRIPTION : CHANGE OF NAME; ASSIGNOR:NORTEL NETWORKS CORPORATION; REEL/FRAME:11195/706 EFFECTIVE DATE : 20000830
US5768308 A	20000830	LSAS	AS	ASSIGNMENT	OWNER NAME : NORTEL NETWORKS LIMITED,CANADA DESCRIPTION : CHANGE OF NAME; ASSIGNOR:NORTEL NETWORKS CORPORATION; REEL/FRAME:011195/0706 EFFECTIVE DATE : 20000830
US5768308 A	20011214	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5768308 A	20051123	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5768308 A	20091120	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5768308 A	20111028	LSAS	AS	ASSIGNMENT	OWNER NAME : ROCKSTAR BIDCO, LP, NEW YORK DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NORTEL NETWORKS LIMITED; REEL/FRAME:027164/0356 EFFECTIVE DATE : 20110729
US5768308 A	20120410	LSAS	AS	ASSIGNMENT	OWNER NAME : RESEARCH IN MOTION LIMITED, CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:2256355 ONTARIO LIMITED; REEL/FRAME:028020/0474 EFFECTIVE DATE : 20120302
US5768308 A	20120410	LSAS	AS	ASSIGNMENT	OWNER NAME : 2256355 ONTARIO LIMITED, ONTARIO DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ROCKSTAR BIDCO, LP; REEL/FRAME:028018/0848 EFFECTIVE DATE : 20120229
US5768308 A	20141016	LSAS	AS	ASSIGNMENT	OWNER NAME : BLACKBERRY LIMITED, ONTARIO DESCRIPTION : CHANGE OF NAME; ASSIGNOR:RESEARCH IN MOTION LIMITED; REEL/FRAME:034012/0031 EFFECTIVE DATE : 20130709
US7023819 BB	20060404	LSGT	+	granted / extensions (spc, cpc, pte)	
US7023819 BB	20060315	LSGT	PAT1	Patented Case	
US7023819 BB	20091125	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7023819 BB	20131003	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7023819 BB	20160602	LSAS	AS	ASSIGNMENT	OWNER NAME : QUALITY WIRELESS NETWORKS, LLC, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:FALSAFI, ARAM; REEL/FRAME:038792/0017 EFFECTIVE DATE : 20160602
WO9619907 A1	19960627	LSPB	+	published / reissued	
WO9619907 A1	19970611	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : CA REF DOCUMENT NUMBER : 2207550 KIND CODE OF REF DOCUMENT : A FORMAT OF REF DOCUMENT (F/P) : F
WO9619907 A1	19970611	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2207550 COUNTRY OF REF DOCUMENT : CA

WO9619907 A1	19970718	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1995940103 COUNTRY OF REF DOCUMENT : EP
WO9619907 A1	19971008	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1995940103 COUNTRY OF REF DOCUMENT : EP
WO9619907 A1	20021113	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1995940103 COUNTRY OF REF DOCUMENT : EP

Title: Relating to panel coupling assemblies

Abstract: Source: US6202382B Two generally co-planar panels (4) are supported almost edge-to-edge by an intermediate beam (1). A coupling member (2) is captive to the beam (1) by interengaging longitudinal formations (6, 11) and provides an interlocking engagement (12, 18) for the edges of the panels (4). Opposite the coupling member (2) the beam (1) is proud of the panels (4) and receives and retains a cap (3) which seals against the panels (4).

Classifications:

International (IPC 8-9): E04C2/54 E04D3/08

E04D3/28 (Advanced/Invention);

E04C2/54 E04D3/02 E04D3/24 (Core/Invention)

International (IPC 1-7): E04B2/00 E04C2/54 E04D3/08 E04D3/14

E04D3/28 E04D3/32 E04D3/35 F04B2/30

CPC: Y10T403/7043 Y10T403/7171 E04D3/28 E04C2/543 E04D3/08

E04D2003/0825 E04D2003/0843 E04D2003/285

European: E04C2/54B E04D3/08 E04D3/28 P04D3/08P3A

P04D3/08R1 P04D3/28R

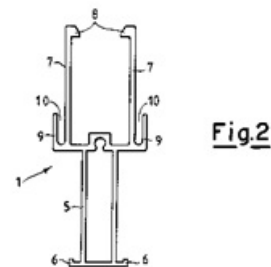
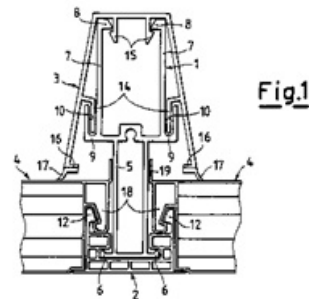
US: 248/223.4 248/223.41 403/363 403/396 52/235 52/241 52/243

52/281 52/464 52/468 52/483.1 52/506.1 52/508 52/511 52/582.1

52/733.4 52/762 52/775 52/7620

PatBase - US6202382_BA

U.S. Patent Mar. 20, 2001 Sheet 1 of 3 US 6,202,382 B1



Family:

Publication number	Publication date	Application number	Application date
CH692363 A	20020515	CH19980000215	19980129
CH692364 A	20020515	CH19980000597	19980312
DE69926157 D1	20050825	DE19996026157	19990126
DE69926157 T2	20060524	DE19996026157T	19990126
DE69926165 D1	20050825	DE19996026165	19990126
DE69926165 T2	20060524	DE19996026165T	19990126
EP0933490 A2	19990804	EP19990200225	19990126
EP0933490 A3	20001122	EP19990200225	19990126
EP0933490 B1	20050720	EP19990200225	19990126
EP0949390 A2	19991013	EP19990200226	19990126
EP0949390 A3	20010321	EP19990200226	19990126
EP0949390 B1	20050720	EP19990200226	19990126
ES2246557 T3	20060216	ES19990200226T	19990126
GB9804188 A0	19980422	GB19980004188	19980302
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US6202382 BA	20010320	US19990238637	19990128
US6347495 BA	20020219	US19990265796	19990310

Priority:

CH19980000215 19980129 CH19980000597 19980312 GB19980004188 19980302
GB19980010459 19980518 CH19980059788 19980312

Probable Assignee: POLITEC POLIMERI TECNICI SA

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Assignee(s): POLITEC POLIMERI TECNICI VIA LISCHEN SA ; POLITEC POLIMERI TECNICI VIA LISCHE N SA ; POLITEC POLIMERI TECNICI S A STABIO

Inventor(s): (std): CONTERNO CASIMO ; COSIMO CONTERNO ; CONTERNO COSIMO

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

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CH692363 A	20020515	LSGT	+	granted / extensions (spc, cpc, pte)	
CH692363 A	20130215	LSAS	PFA	NAME/FIRM CHANGED	OWNER NAME : KOSCON INDUSTRIAL SA, CH DESCRIPTION : FORMER

					OWNER: POLITEC POLIMERI TECNICI S.A., CH
CH692363 A	20150828	LSLE	-PL	PATENT CEASED	
CH692364 A	20020515	LSGT	+	granted / extensions (spc, cpc, pte)	
CH692364 A	20130315	LSAS	PFUS	MERGER	OWNER NAME : KOSCON INDUSTRIAL SA, CH DESCRIPTION : FORMER OWNER: POLITEC POLIMERI TECNICI S.A., CH
CH692364 A	20151030	LSLE	-PL	PATENT CEASED	
DE69926157 D1	20060810	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69926157 T2	20060524	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69926165 D1	20060810	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69926165 T2	20060524	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0933490 A2	19990804	LSPB	+	published / reissued	
EP0933490 A2	20001122	LSRE	RIC1	CLASSIFICATION (CORRECTION)	DESCRIPTION : 7E 04D 3/08 A, 7E 04D 3/28 B
EP0933490 A2	20010620	LSSE	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20010420
EP0933490 A2	20010808	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	DESCRIPTION : BE CH DE FR GB IE IT LI NL
EP0933490 A2	20030604	LSSE	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20030417
EP0933490 A2	20050720	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0933490 A2	20050729	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP0933490 A2	20050824	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP0933490 A2	20060628	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20060421
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EP0933490 A2	20090529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20090104 YEAR OF FEE PAYMENT : 11
EP0933490 A2	20090529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20090123 YEAR OF FEE PAYMENT : 11
EP0933490 A2	20090630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20090126 YEAR OF FEE PAYMENT : 11
EP0933490 A2	20090630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20090121 YEAR OF FEE PAYMENT : 11
EP0933490 A2	20090731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20090213 YEAR OF FEE PAYMENT : 11
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EP0933490 A2	20091030	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20090113 YEAR OF FEE PAYMENT : 11
EP0933490 A2	20100430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20100118 YEAR OF FEE PAYMENT : 12
EP0933490 A2	20100430	LSFE	+PGFP	POSTGRANT: ANNUAL	REF COUNTRY CODE : CH

				FEES PAID TO NATIONAL OFFICE	PAYMENT DATE : 20100113 YEAR OF FEE PAYMENT : 12
EP0933490 A2	20100531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20100208 YEAR OF FEE PAYMENT : 12
EP0933490 A2	20100531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20100111 YEAR OF FEE PAYMENT : 12
EP0933490 A2	20100630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20100121 YEAR OF FEE PAYMENT : 12
EP0933490 A2	20100630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20100125 YEAR OF FEE PAYMENT : 12
EP0933490 A2	20100630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20100120 YEAR OF FEE PAYMENT : 12
EP0933490 A2	20100831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20100101 YEAR OF FEE PAYMENT : 12
EP0933490 A2	20110429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20110112 YEAR OF FEE PAYMENT : 13
EP0933490 A2	20110531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20110119 YEAR OF FEE PAYMENT : 13
EP0933490 A2	20110531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20110111 YEAR OF FEE PAYMENT : 13
EP0933490 A2	20110531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20110117 YEAR OF FEE PAYMENT : 13
EP0933490 A2	20110531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20110128 YEAR OF FEE PAYMENT : 13
EP0933490 A2	20110531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20110112 YEAR OF FEE PAYMENT : 13
EP0933490 A2	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20110225 YEAR OF FEE PAYMENT : 13
EP0933490 A2	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20110126 YEAR OF FEE PAYMENT : 13
EP0933490 A2	20120430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20120126 YEAR OF FEE PAYMENT : 14
EP0933490 A2	20120430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20120125 YEAR OF FEE PAYMENT : 14
EP0933490 A2	20120430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20120130 YEAR OF FEE PAYMENT : 14
EP0933490 A2	20120531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20120127 YEAR OF FEE PAYMENT : 14
EP0933490 A2	20120629	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20120125 YEAR OF FEE PAYMENT : 14
EP0933490 A2	20120629	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120124 YEAR OF FEE PAYMENT : 14
EP0933490 A2	20120629	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20120126 YEAR OF FEE PAYMENT : 14

EP0933490 A2	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20120130 YEAR OF FEE PAYMENT : 14
EP0933490 A2	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130125 YEAR OF FEE PAYMENT : 15
EP0933490 A2	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130211 YEAR OF FEE PAYMENT : 15
EP0933490 A2	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130125 YEAR OF FEE PAYMENT : 15
EP0933490 A2	20130731	LSLE	-BERE	BE: LAPSED	OWNER NAME : S.A. *POLITEC POLIMERI TECNICI EFFECTIVE DATE : 20130131
EP0933490 A2	20130814	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : V1 EFFECTIVE DATE : 20130801
EP0933490 A2	20130830	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0933490 A2	20131023	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP0933490 A2	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130131
EP0933490 A2	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NL DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130801
EP0933490 A2	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LI DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130131
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EP0933490 A2	20131121	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69926157 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130801
EP0933490 A2	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130126
EP0933490 A2	20140630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140127 YEAR OF FEE PAYMENT : 16
EP0933490 A2	20141031	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20140930
EP0933490 A2	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : FR DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20140131

EP0933490 A2	20150923	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20150126
EP0933490 A2	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GB DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150126
EP0933490 A2	20160630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20140126
EP0933490 B1	20050720	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0949390 A2	19991013	LSPB	+	published / reissued	
EP0949390 A2	20001122	LSRE	RIC1	CLASSIFICATION (CORRECTION)	DESCRIPTION : 7E 04D 3/14 A, 7E 04D 3/08 B, 7E 04D 13/14 B
EP0949390 A2	20010314	LSRE	RIC1	CLASSIFICATION (CORRECTION)	DESCRIPTION : 7E 04D 3/08 A, 7E 04D 3/28 B
EP0949390 A2	20011114	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20010914
EP0949390 A2	20011212	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	DESCRIPTION : CH DE ES FR GB IT LI PT
EP0949390 A2	20030528	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20030409
EP0949390 A2	20050720	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0949390 A2	20050729	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP0949390 A2	20060216	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2246557 KIND CODE OF REF DOCUMENT : T3
EP0949390 A2	20060628	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20060421
EP0949390 A2	20090430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20090218 YEAR OF FEE PAYMENT : 11
EP0949390 A2	20090529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20090122 YEAR OF FEE PAYMENT : 11
EP0949390 A2	20090529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20090123 YEAR OF FEE PAYMENT : 11
EP0949390 A2	20090630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20090126 YEAR OF FEE PAYMENT : 11
EP0949390 A2	20090630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20090121 YEAR OF FEE PAYMENT : 11
EP0949390 A2	20090831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20090120 YEAR OF FEE PAYMENT : 11
EP0949390 A2	20091030	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20090113 YEAR OF FEE PAYMENT : 11
EP0949390 A2	20100430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20100114 YEAR OF FEE PAYMENT : 12
EP0949390 A2	20100430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20100113 YEAR OF FEE PAYMENT : 12

EP0949390 A2	20100430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20100128 YEAR OF FEE PAYMENT : 12
EP0949390 A2	20100531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20100208 YEAR OF FEE PAYMENT : 12
EP0949390 A2	20100531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20100111 YEAR OF FEE PAYMENT : 12
EP0949390 A2	20100630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20100121 YEAR OF FEE PAYMENT : 12
EP0949390 A2	20100630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20100120 YEAR OF FEE PAYMENT : 12
EP0949390 A2	20110531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20110112 YEAR OF FEE PAYMENT : 13
EP0949390 A2	20110531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20110105 YEAR OF FEE PAYMENT : 13
EP0949390 A2	20110531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20110128 YEAR OF FEE PAYMENT : 13
EP0949390 A2	20110531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20110111 YEAR OF FEE PAYMENT : 13
EP0949390 A2	20110531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20110119 YEAR OF FEE PAYMENT : 13
EP0949390 A2	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20110126 YEAR OF FEE PAYMENT : 13
EP0949390 A2	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20110216 YEAR OF FEE PAYMENT : 13
EP0949390 A2	20120430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20120130 YEAR OF FEE PAYMENT : 14
EP0949390 A2	20120430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20120125 YEAR OF FEE PAYMENT : 14
EP0949390 A2	20120531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20120127 YEAR OF FEE PAYMENT : 14
EP0949390 A2	20120531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20120103 YEAR OF FEE PAYMENT : 14
EP0949390 A2	20120629	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120124 YEAR OF FEE PAYMENT : 14
EP0949390 A2	20120629	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20120126 YEAR OF FEE PAYMENT : 14
EP0949390 A2	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130211 YEAR OF FEE PAYMENT : 15
EP0949390 A2	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130125 YEAR OF FEE PAYMENT : 15
EP0949390 A2	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130125 YEAR OF FEE PAYMENT : 15
EP0949390 A2	20130628	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL	REF COUNTRY CODE : ES PAYMENT DATE : 20120126

				OFFICE	YEAR OF FEE PAYMENT : 14
EP0949390 A2	20130802	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PT REF LEGAL EVENT CODE : MM4A DESCRIPTION : LAPSE DUE TO NON-PAYMENT OF FEES EFFECTIVE DATE : 20130726
EP0949390 A2	20130830	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0949390 A2	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130801
EP0949390 A2	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130726
EP0949390 A2	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CH DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130131
EP0949390 A2	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LI DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130131
EP0949390 A2	20131205	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69926165 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130801
EP0949390 A2	20140321	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20140321
EP0949390 A2	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : ES DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130127
EP0949390 A2	20140630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140127 YEAR OF FEE PAYMENT : 16
EP0949390 A2	20141031	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20140930
EP0949390 A2	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : FR DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20140131
EP0949390 A2	20150923	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20150126
EP0949390 A2	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GB DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150126
EP0949390 A2	20160630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20140126
EP0949390 B1	20050720	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2246557 T3	20060216	LSGT	+	granted / extensions (spc, cpc, pte)	
GB9804188 A0	19990512	LSWD	-AT	APPLICATIONS	

GB9810459 A0	19990623	LSWD	-AT	TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1) APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
US6202382 BA	20010320	LSGT	+	granted / extensions (spc, cpc, pte)	
US6202382 BA	19990426	LSAS	AS	ASSIGNMENT	OWNER NAME : POLITEC POLIMERI TECNICI S.A., SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CONTERNO, COSIMO; REEL/FRAME:009909/0760 EFFECTIVE DATE : 19990303
US6202382 BA	20010301	LSGT	PAT1	Patented Case	
US6202382 BA	20040817	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6202382 BA	20080911	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6202382 BA	20120920	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6347495 BA	20020219	LSGT	+	granted / extensions (spc, cpc, pte)	
US6347495 BA	19990512	LSAS	AS	ASSIGNMENT	OWNER NAME : POLITEC POLIMERI TECNICI S.A., SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CONTERNO, COSIMO; REEL/FRAME:009956/0472 EFFECTIVE DATE : 19990504
US6347495 BA	20050727	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6347495 BA	20090722	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6347495 BA	20140219	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6347495 BA	20140317	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6347495 BA	20140408	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20140219

Title: Panels of **controllable** radiation transmissivity

Abstract: Source: US6499255B The invention provides a panel (2) of **controllable** radiation transmissivity, including a plurality of tubular cells (4), in at least some of which cells is rotatably mounted at least one radiation-blocking member (6), at least one portion of at least one surface of which is substantially opaque, and means (8) for rotating the radiation-blocking member (6) inside the tubular cells (4), wherein the radiation-blocking member (6), when rotated, is adapted, in at least one angular position, to substantially block the passage of radiation through the panel (2), and in a plurality of other, selectable, angular positions, to provide a plurality of differing radiation transmissivities.

Classifications:

International (IPC 8-9): E04C2/54 E04D3/28 F21S11/00 F21V14/08 F21V33/00 (Advanced/Invention);

E04C2/54 E04D3/28 F21S11/00 F21V14/08

F21V33/00 (Advanced/Non-invention);

E04C2/54 (Core/Invention);

E04D3/24 F21S11/00 F21V14/00 F21V33/00 (Core/Non-invention)

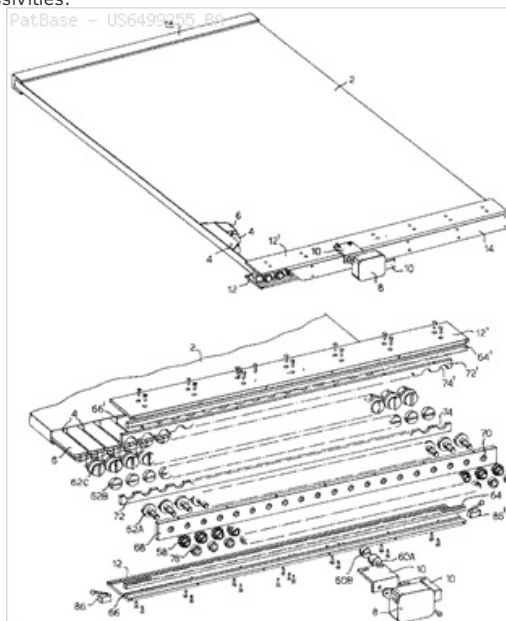
International (IPC 1-7): E04C E04C2/54 E06B7/096 E06B9/386

CPC: E04C2/543 E04D2003/285 F21S11/00 F21V14/08 F21V33/006

European: E04C2/54B P04D3/28R R21S11/00 R21V14/08

R21V33/00B

US: 160/236 49/74.1 49/741 49/82.1 49/821 49/92.1 49/921



Family:

Publication number	Publication date	Application number	Application date
AT239152 E	20030515	AT19990939798T	19990615
AU199942881 A1	20000105	AU19990042881	19990615
AU199942881 A5	20000105	AU19990042881	19990615
AU747147 B2	20020509	AU19990042881	19990615
BRPI9911858 A	20010320	BR1999PI11858	19990615
CA2335251 AA	20001215	CA19992335251	19990615
CA2335251 C	20060411	CA19992335251	19990615
CN1104543 C	20030402	CN19998008717	19990615
CN1309741 A	20010822	CN19998008717	19990615
DE69907450 D1	20030605	DE19996007450	19990615
DE69907450 T2	20040212	DE19996007450T	19990615
DK1088140 T3	20030714	DK19990939798T	19990615
EP1088140 A1	20010404	EP19990939798	19990615
EP1088140 B1	20030502	EP19990939798	19990615
ES2196845 T3	20031216	ES19990939798T	19990615
HK1039974 A1	20030829	HK20020101141	20020218
IL124949 A0	19990126	IL19980124949	19980616
IL124949 A1	20001121	IL19980124949	19980616
IN243180 B	20101001	IN2000DN00406	20001206
JP2002518612 T2	20020625	JP20000554946T	19990615
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PL204199 B1	20091231	PL19990345213	19990615
PL345213 A1	20011203	PL19990345213	19990615
PT1088140 T	20030731	PT19990939798T	19990615
RU2000131599 A	20021210	RU20000131599	19990615
RU2221120 C2	20040110	RU20000131599	19990615
US6499255 BA	20021231	US20010719676	20010228
WO9966149 A1	19991223	WO1999IL00326	19990615
ZA200007135 A	20011218	ZA20000007135	20001206

Priority:

IL19980124949 19980616 KR20007014319 20001216 WO1999IL00326 19990615
 WO1999IL00326 20001216

Probable Assignee: DAN PAL

Assignee(s): (std): DAN PAL UPPER GALILEE ; GIVONI SHAUL ; PAL DAN ; DAN PAL

Assignee(s): DAN PAL MOBILE POST KIBBUTZ DANUPPER GALILEE ; SHAUL GIVONI

Inventor(s): (std): GIVONI S ; GIVONI SHAUL

Inventor(s): GIVONI SHOUL ; S GIVONI ; SHAUL GIVONI

Agent(s): MADDENRS; RIDOUT AND MAYBEE LLP; WOLFF BREGMAN AND GOLLER

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT239152 E	20030515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT239152 E	20031215	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	REF DOCUMENT NUMBER : 1088140 COUNTRY OF REF DOCUMENT : EP
AT239152 E	20060315	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AU199942881 A1	20000105	LSPB	+	published / reissued	
AU199942881 A5	20000105	LSPB	+	published / reissued	
AU747147 B2	20020509	LSGT	+	granted / extensions (spc, cpc, pte)	
AU747147 B2	20020905	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
BRPI9911858 A	20010320	LSPB	+	published / reissued	
BRPI9911858 A	20060815	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI9911858 A	20070213	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	TEXT : PRAZO DE VALIDADE: 20 (VINTE) ANOS CONTADOS A PARTIR DE 15/06/1999, OBSERVADAS AS CONDICOES LEGAIS.
BRPI9911858 A	20170411	LSLE	-B21F	LAPSE ACC. ART. 78, ITEM IV - ON NON-PAYMENT OF THE ANNUAL FEES IN TIME	
CA2335251 AA	20001215	LSPB	+	published / reissued	
CA2335251 AA	20001215	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2335251 AA	20030813	LSES	+EEER	EXAMINATION REQUEST	
CA2335251 C	20060411	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1104543 C	20030402	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1104543 C	20010822	LSPB	+C06	PUBLICATION	
CN1104543 C	20030402	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1309741 A	20010822	LSPB	+	published / reissued	
DE69907450 D1	20040527	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69907450 T2	20040212	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1088140 T3	20030714	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1088140 A1	20010404	LSPB	+	published / reissued	
EP1088140 A1	20010404	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20001218
EP1088140 A1	20030502	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20030502
EP1088140 A1	20030507	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1088140 A1	20030515	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1088140 A1	20030611	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE :

FG4D					
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EP1088140 A1	20030617	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20030401763 COUNTRY OF REF DOCUMENT : GR
EP1088140 A1	20030630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20030630
EP1088140 A1	20031216	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2196845 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1088140 A1	20040421	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20040203
EP1088140 A1	20040608	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20040608 YEAR OF FEE PAYMENT : 6
EP1088140 A1	20050615	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050615
EP1088140 A1	20070612	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20070612 YEAR OF FEE PAYMENT : 9
EP1088140 A1	20070613	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20070613 YEAR OF FEE PAYMENT : 9
EP1088140 A1	20090202	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP
EP1088140 A1	20090302	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20090101
EP1088140 A1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090101
EP1088140 A1	20100129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090106
EP1088140 A1	20100531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20080630

EP1088140 A1	20100730	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20100618 YEAR OF FEE PAYMENT : 12
EP1088140 A1	20101029	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20100611 YEAR OF FEE PAYMENT : 12
EP1088140 A1	20101029	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20100623 YEAR OF FEE PAYMENT : 12
EP1088140 A1	20111231	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : *DAN-PAL EFFECTIVE DATE : 20110630
EP1088140 A1	20120131	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1088140 A1	20120328	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
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EP1088140 A1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110615
EP1088140 A1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110630
EP1088140 A1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110630
EP1088140 A1	20150619	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 17
EP1088140 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20150615 YEAR OF FEE PAYMENT : 17
EP1088140 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20150619 YEAR OF FEE PAYMENT : 17
EP1088140 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20150619 YEAR OF FEE PAYMENT : 17
EP1088140 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20150618 YEAR OF FEE PAYMENT : 17
EP1088140 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20150618 YEAR OF FEE PAYMENT : 17
EP1088140 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20150619

EP1088140 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20150611 YEAR OF FEE PAYMENT : 17
EP1088140 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20150623 YEAR OF FEE PAYMENT : 17
EP1088140 A1	20170103	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69907450 COUNTRY OF REF DOCUMENT : DE
EP1088140 A1	20170131	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP1088140 A1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20160616
EP1088140 A1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161215
EP1088140 A1	20170301	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20160615
EP1088140 A1	20170302	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : ML REF DOCUMENT NUMBER : 20030401763 COUNTRY OF REF DOCUMENT : GR EFFECTIVE DATE : 20170109
EP1088140 A1	20170331	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20170228
EP1088140 A1	20170428	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20160630
EP1088140 A1	20170428	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170109
EP1088140 A1	20170428	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170103
EP1088140 A1	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20160615
EP1088140 A1	20170630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20160615
EP1088140 B1	20030502	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2196845 T3	20031216	LSGT	+	granted / extensions (spc, cpc, pte)	

HK1039974 A1	20030829	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1039974 A1	20041215	LSFE	+PF	PATENT IN FORCE	
HK1039974 A1	20170113	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	EFFECTIVE DATE : 20160615
IL124949 A1	20001121	LSPB	+	published / reissued	
IL124949 A1	20010430	LSGT	+FF	PATENT GRANTED	
IL124949 A1	20050925	LSRE	NE	APPLICATION FOR RESTORATION - PATENT LAPSED THROUGH NON-PAYMENT OF RENEWAL FEES (SECTION 60, PATENTS LAW, 5727-1967)	
IL124949 A1	20081103	LSFE	+KB	PATENT RENEWED	
IL124949 A1	20120628	LSFE	+KB	PATENT RENEWED	
IL124949 A1	20170131	LSLE	-MM9K	PATENT NOT IN FORCE DUE TO NON-PAYMENT OF RENEWAL FEES	
IN243180 B	20101001	LSGT	+	granted / extensions (spc, cpc, pte)	
JP2002518612 T2	20020625	LSPB	+	published / reissued	
KR100687834 B1	20070227	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100687834 B1	20040519	LSSES	A201	REQUEST FOR EXAMINATION	
KR100687834 B1	20060622	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR100687834 B1	20061129	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR100687834 B1	20070221	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR100687834 B1	20130220	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20130220 YEAR OF FEE PAYMENT : 7
KR100687834 B1	20140211	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20140211 YEAR OF FEE PAYMENT : 8
KR100687834 B1	20150216	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20150216 YEAR OF FEE PAYMENT : 9
KR100687834 B1	20160218	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20160218 YEAR OF FEE PAYMENT : 10
PL204199 B1	20091231	LSGT	+	granted / extensions (spc, cpc, pte)	
PL345213 A1	20011203	LSPB	+	published / reissued	
PT1088140 T	20030731	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2000131599 A	20021210	LSPB	+	published / reissued	
RU2221120 C2	20040110	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2221120 C2	20170227	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	EFFECTIVE DATE : 20160616
US6499255 BA	20021231	LSGT	+	granted / extensions (spc, cpc, pte)	
US6499255 BA	20010228	LSAS	AS	ASSIGNMENT	OWNER NAME : DAN-PAL, ISRAEL DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:GIVONI, SHAUL; REEL/FRAME:011564/0976 EFFECTIVE DATE : 20010205
US6499255 BA	20021212	LSGT	PAT1	Patented Case	
US6499255 BA	20060612	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6499255 BA	20100622	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6499255 BA	20140627	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

WO9966149 A1	19991223	LSPB	+	published / reissued	
WO9966149 A1	20001204	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200007135 COUNTRY OF REF DOCUMENT : ZA
WO9966149 A1	20001204	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2000/07135 COUNTRY OF REF DOCUMENT : ZA
WO9966149 A1	20001211	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 42881/99 COUNTRY OF REF DOCUMENT : AU
WO9966149 A1	20001215	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2335251 COUNTRY OF REF DOCUMENT : CA
WO9966149 A1	20001215	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2000/012643 COUNTRY OF REF DOCUMENT : MX
WO9966149 A1	20001216	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020007014319 COUNTRY OF REF DOCUMENT : KR
WO9966149 A1	20001218	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1999939798 COUNTRY OF REF DOCUMENT : EP
WO9966149 A1	20010228	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 09719676 COUNTRY OF REF DOCUMENT : US
WO9966149 A1	20010404	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1999939798 COUNTRY OF REF DOCUMENT : EP
WO9966149 A1	20010419	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
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WO9966149 A1	20020822	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 42881/99 COUNTRY OF REF DOCUMENT : AU
WO9966149 A1	20030502	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1999939798 COUNTRY OF REF DOCUMENT : EP
WO9966149 A1	20061129	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020007014319 COUNTRY OF REF DOCUMENT : KR
ZA200007135 A	20011218	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Architectural glazing panel system and retaining clip therefor

Abstract: Source: US6164024A A high performance light transmissive glazing panel system is provided such as for overhead roof constructions which has a wind load resistance on the order of 330 psf. The glazing panels are supported on a framework of purlins and rafters and include upstanding seam flanges for connecting adjacent panels together with a batten joining connector. Retention clips are secured to the purlins with each having a central web extending between the seam flanges and elongated top flanges which abut the tops of the seam flanges over a distance that is equal to or greater than the transverse width of the purlin for improved holding power. The preferred clip is an integral extrusion and can take on a variety of forms in accordance with the invention. In each form, the clip top flange extends continuously from one side of the web to the other so as to be resistant to being bent upward on either side of the web. The clip can be extruded with thickened portions to increase its moment of inertia and resistance to bending for improved holding power and rigidity of the glazing panel system. In addition, the base of the clip can be integral with the supporting structure therebelow to reduce the need for distinct support members of the panel supporting framework.

Classifications:

International (IPC 8-9): E04D3/08 E04D3/28

E04D3/366 (Advanced/Invention)

International (IPC 1-7): E04B7/18

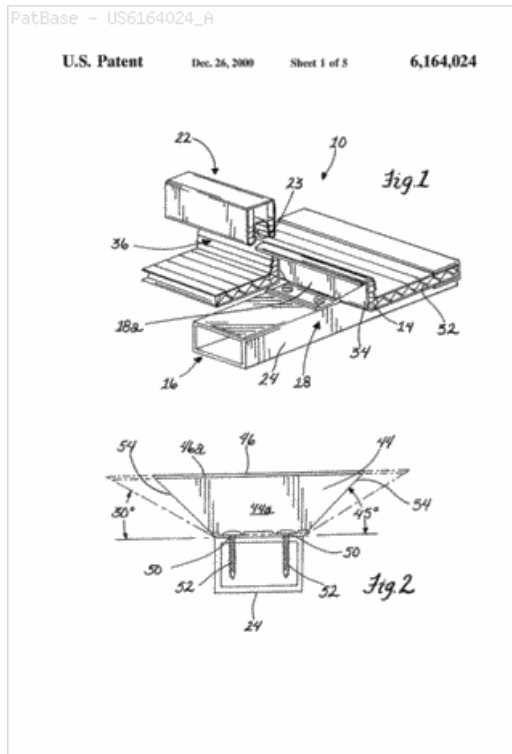
CPC: E04D3/08 E04D3/28 E04D3/366 E04D2003/0806

E04D2003/085 E04D2003/285

European: E04D3/08 E04D3/28 E04D3/366 P04D3/08P1

P04D3/08R1A P04D3/28R

US: 52/200 52/461 52/469 52/582.1 52/588.1



Family:

Publication number	Publication date	Application number	Application date
US6164024 A	20001226	US19970959255	19971028

Priority:

US19970959255 19971028

Probable Assignee: KONVIN ASSOCIATES PARTNERSHIP LTD

Assignee(s): (std): KONVIN ASSOCIATES LTD PARTNERS ; KONVIN ASSOCIATES PART LTD

Assignee(s): KONVIN ASSOCIATES PARTNERSHIP LTD ; KONVIN ASSOCIATES LIMITED PARTNERSHIP ; KONVIN ASSOCIATES LTD

Inventor(s): (std): KONSTANTIN MOSHE

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US6164024 A	20001226	LSGT	+	granted / extensions (spc, cpc, pte)	
US6164024 A	19980327	LSAS	AS	ASSIGNMENT	OWNER NAME : KONVIN ASSOCIATES LIMITED PARTNERSHIP, ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KONSTANTIN, MOSHE; REEL/FRAME:009086/0051 EFFECTIVE DATE : 19971216
US6164024 A	20001207	LSGT	PAT1	Patented Case	
US6164024 A	20040412	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6164024 A	20081114	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8

Title: Glazing system

Abstract: Source: EP1111153A2 The invention relates to a glazing system comprising a plurality of glazing panels (10,11) made from a plastics material each panel having at least one edge region juxtaposed with the edge region of the other of said panels and wherein said juxtaposed edges are formed with or provided with an abutment (12,13) extending transversely of the plane of each glazing panel, said glazing system further comprising a support structure (14) having a first part (15) which extends inwardly from the edge regions of the juxtaposed panels and along one side of the panels (10,11) and a second part (16) which extends inwardly from edge regions of said juxtaposed panels (10,11) and along the opposite sides of the panels from the first part (15) and wherein said second part (16) is of a formation whereby it at least partially encloses said abutments (12,13) to deter separation of said glazing panels from their support structure (14).

Classifications:

International (IPC 8-9): E04C2/54 E04D3/08

E04D3/28 (Advanced/Invention);

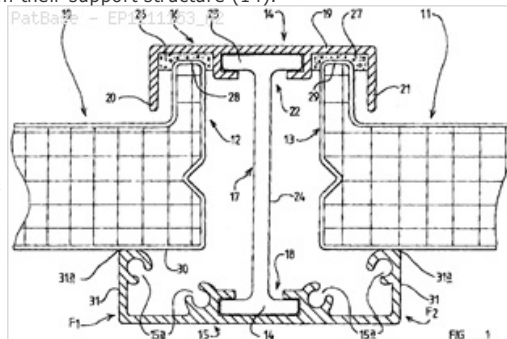
E04C2/54 E04D3/02 E04D3/24 (Core/Invention)

International (IPC 1-7): E04C2/54 E04D3/06 E04D3/08 E04D3/28 E04D3/361

CPC: E04C2/543 E04D3/08 E04D3/28 E04D2003/0818

E04D2003/285 E04D2003/0837

European: E04C2/54B E04D3/08 E04D3/28 P04D3/08P3 P04D3/28R



Family:

Publication number	Publication date	Application number	Application date
EP1111153 A2	20010627	EP20000310960	20001208
EP1111153 A3	20010822	EP20000310960	20001208
GB199928903 A0	20000202	GB19990028903	19991208
GB200029994 A0	20010124	GB20000029994	20001208
GB2362179 A1	20011114	GB20000029994	20001208
GB2362179 B2	20031105	GB20000029994	20001208

Priority:

GB19990028903 19991208

Probable Assignee: HARTINGTON CONWAY LIMITED

Assignee(s): (std): HARTCON LTD ; HARTINGTON CONWAY LTD ; XTRALITE IND ROOFLIGHTS LTD

Assignee(s): XTRALITE INDUSTRIAL ROOFLIGHTS LTD ; HARTINGTON CONWAY LIMITED

Inventor(s): (std): LOWE RICHARD CHARLES

Inventor(s): RICHARD CHARLES LOWE

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
EP1111153 A2	20010627	LSPB	+	published / reissued	
EP1111153 A2	20011212	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	OWNER NAME : HARTINGTON CONWAY LIMITED
EP1111153 A2	20020522	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	
EP1111153 A2	20030102	LSDW	-18D	DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20020224
GB2362179 A1	20011114	LSPB	+	published / reissued	
GB2362179 A1	20011017	LSAS	COOA	CHANGE IN APPLICANT'S NAME OR OWNERSHIP OF THE APPLICATION	
GB2362179 B2	20031105	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Assembly of panels and jointing elements

Abstract: Source: US2001022058A An assembly of panels and jointing elements, in particular for the technical field of building, wherein each panel (11, 12), taken in section, comprises an alveolar structure, determined by a plurality of ribs (14) and arranged between two main outside surfaces (10, 28, 29), extensions (15, 16) obtained at opposed ends of each panel (11, 12), and a jointing element (13, 113) adapted to receive an extension (15, 16) of each of two adjacent panels (11, 12) firmly engaging them, wherein both each extension (15, 16) and the jointing element (13, 113) are provided with reciprocally engaged inclined surfaces (20, 21, 24, 25) facing inwards and facing each other, and wherein the jointing element (13) is U-shaped and is provided with a pressing element (19) that centrally extends inside it and arranges in wedged engagement between outside facing walls (17, 18) of the two extensions (15, 16).

Classifications:

International (IPC 8-9): E04B2/78 E04C2/54

E04D3/28 (Advanced/Invention);

E04B2/76 (Core/Invention)

International (IPC 1-7): B29D E04B E04B2/74 E04B2/78 E04C2/38

E04C2/40 E04C2/52 E04C2/54 E04D3/06 E06B3/54

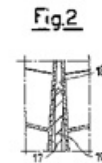
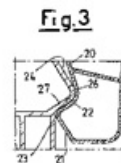
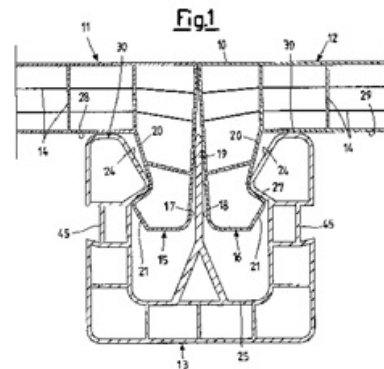
CPC: E04D3/28 E04C2/543 E04D2003/285

European: E04C2/54B E04D3/28 P04D3/28R

US: 52/483.1 52/483.100S 52/489.1 52/489.100P 52/582.1 52/584.1 52/584.100S 52/762 52/762S

PatBase - US2001022058_AA

Patent Application Publication Sep. 20, 2001 Sheet 1 of 3 US 2001/0022058 A1



Family:

Publication number	Publication date	Application number	Application date
AR029894 AA	20030723	AR2001P101080	20010307
AT264960 E	20040515	AT20010200773T	20010301
BRPI0100925 A	20011030	BR2001PI00925	20010307
BRPI0100925 B1	20090811	BR2001PI00925	20010307
DE60102851 D1	20040527	DE20016002851	20010301
DE60102851 T2	20050331	DE20016002851T	20010301
EP1132542 A1	20010912	EP20010200773	20010301
EP1132542 B1	20040421	EP20010200773	20010301
ES2220657 T3	20041216	ES20010200773T	20010301
IL141763 A0	20020310	IL20010141763	20010301
IL141763 A1	20050220	IL20010141763	20010301
IT1317120 B1	20030527	IT2000MI00438	20000307
ITMI20000438 A0	20000307	IT2000MI00438	20000307
ITMI20000438 A1	20010907	IT2000MI00438	20000307
TR200401757 T4	20040823	TR20040001757T	20010301
US2001022058 AA	20010920	US20010798696	20010302
US6536175 BB	20030325	US20010798696	20010302

Priority:

IT2000MI00438 20000307

Probable Assignee: POLITEC POLIMERI TECNICI SA

Assignee(s): (std): CONTERNO COSIMO ; POLITEC POLIMERI TECNICI S A ; POLITEC POLIMERI TECNICI SA

Assignee(s): POLITEC POLIMERI TECNICI ZI SA ; POLITEC POLIMERI TECNICI S A STABIO ; COSIMO CONTERNO

Inventor(s): (std): CONTERNO COSIMO

Inventor(s): COSIMO CONTERNO

Agent(s): LUZZATTO AND LUZZATTO

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

Legal status (INPADOC)

View legal status timeline

Patent Date recorded Event group Code Event Details

AR029894 AA 20030723 LSPB + published /

				reissued	
AR029894 AA	20091217	LSWD	-FB	SUSPENSION OF GRANTING PROCEDURE	
AR029894 AA	20120731	LSGT	+FG	GRANT, REGISTRATION	
AR029894 AA	20161116	LSGT	+FG	GRANT, REGISTRATION	
AT264960 E	20040515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT264960 E	20041015	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
BRPI0100925 A	20011030	LSPB	+	published / reissued	
BRPI0100925 A	20090225	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI0100925 A	20090811	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	DESCRIPTION : PRAZO DE VALIDADE: 20 (VINTE) ANOS CONTADOS A PARTIR DE 07/03/2001, OBSERVADAS AS CONDICOES LEGAIS.
BRPI0100925 B1	20090811	LSGT	+	granted / extensions (spc, cpc, pte)	
BRPI0100925 B1	20090225	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI0100925 B1	20090811	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	DESCRIPTION : PRAZO DE VALIDADE: 20 (VINTE) ANOS CONTADOS A PARTIR DE 07/03/2001, OBSERVADAS AS CONDICOES LEGAIS.
BRPI0100925 B1	20160517	LSLE	-B21F	LAPSE ACC. ART. 78, ITEM IV - ON NON-PAYMENT OF THE ANNUAL FEES IN TIME	DESCRIPTION : REFERENTE A 15A ANUIDADE.
BRPI0100925 B1	20160927	LSLE	-B24J	LAPSE BECAUSE OF NON-PAYMENT OF ANNUAL FEES (DEFINITELY: ART 78 IV LPI, RESOLUTION 113/2013 ART. 12)	DESCRIPTION : EM VIRTUDE DA EXTINCAO PUBLICADA NA RPI 2367 DE 17-05-2016 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDA A EXTINCAO DA PATENTE E SEUS CERTIFICADOS, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
DE60102851 D1	20080306	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60102851 T2	20050331	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1132542 A1	20010912	LSPB	+	published / reissued	
EP1132542 A1	20020130	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20011204
EP1132542 A1	20020605	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR
EP1132542 A1	20030827	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20030709
EP1132542 A1	20040421	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20040421
EP1132542 A1	20040421	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A

				ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20040421
EP1132542 A1	20040421	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1132542 A1	20040430	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1132542 A1	20040519	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1132542 A1	20040721	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20040721
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EP1132542 A1	20050301	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20050301
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EP1132542 A1	20050413	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20050124
EP1132542 A1	20051229	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1132542 A1	20080102	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE

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EP1132542 A1	20120430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20120326 YEAR OF FEE PAYMENT : 12
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EP1132542 A1	20130930	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : S.A. *POLITEC POLIMERI TECNICI EFFECTIVE DATE : 20130331
EP1132542 A1	20131031	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
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EP1132542 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20140326 YEAR OF FEE PAYMENT : 14
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EP1132542 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20140324 YEAR OF FEE PAYMENT : 14
EP1132542 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20140317 YEAR OF FEE PAYMENT : 14
EP1132542 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20140224 YEAR OF FEE PAYMENT : 14
EP1132542 A1	20140630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20140327 YEAR OF FEE PAYMENT : 14

EP1132542 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20140327 YEAR OF FEE PAYMENT : 14
EP1132542 A1	20151001	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 60102851 COUNTRY OF REF DOCUMENT : DE
EP1132542 A1	20151125	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20150301
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EP1132542 A1	20160101	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20151130
EP1132542 A1	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150301
EP1132542 A1	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20151001
EP1132542 A1	20160229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150331
EP1132542 A1	20160427	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20160427
EP1132542 A1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150302
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EP1132542 B1	20040421	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2220657 T3	20041216	LSGT	+	granted / extensions (spc, cpc, pte)	
IL141763 A0	20070617	LSFE	+KB	PATENT RENEWED	
IL141763 A0	20150226	LSFE	+KB	PATENT RENEWED	
IL141763 A1	20050220	LSPB	+	published / reissued	
IT1317120 B1	20030527	LSGT	+	granted / extensions (spc, cpc, pte)	

ITMI20000438 A1	20010907	LSPB	+	published / reissued	
TR200401757 T4	20040823	LSGT	+	granted / extensions (spc, cpc, pte)	
US2001022058 AA	20010920	LSPB	+	published / reissued	
US6536175 BB	20030325	LSGT	+	granted / extensions (spc, cpc, pte)	
US6536175 BB	20010412	LSAS	AS	ASSIGNMENT	OWNER NAME : POLITEC POLIMERI TECNICI S.A., SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CONTERNO, COSIMO; REEL/FRADE:011696/0845 EFFECTIVE DATE : 20010403
US6536175 BB	20030306	LSGT	PAT1	Patented Case	
US6536175 BB	20060901	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6536175 BB	20100826	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6536175 BB	20140725	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

Title: ARCHITECTURAL PANEL FABRICATION SYSTEM

Abstract: Source: US2003205009A A fabrication system used for mounting a structural member to a surface including an anchor attached to the surface. The anchor has a pair of sidewalls extending substantially perpendicular therefrom and forming an anchor channel with one or more first flanges formed on at least one of the sidewalls facing the anchor channel. The fabrication system also includes a panel frame having a body for insertion into the anchor channel. The body has at least one lateral surface extending substantially perpendicularly therefrom. First and second sidewalls extend from the body to define a frame channel for receiving an edge portion of the structural member. At least one of the first and second sidewalls has a serrated inner face facing the frame channel.

Classifications:

International (IPC 8-9): E04B2/90 E04B2/96 E04C2/40 E04F13/08 E04F13/12 (Advanced/Invention);

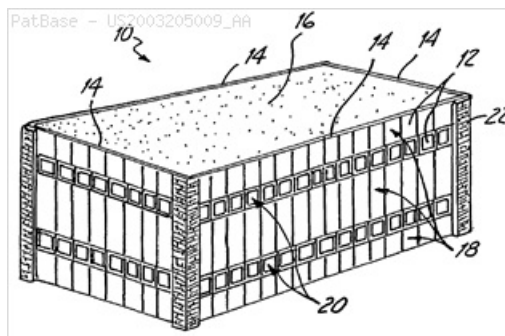
E04B2/88 E04B2/90 E04F13/08 E04F13/12 (Core/Invention)

International (IPC 1-7): E04B E04C2/40 E04C2/62 E04H1/00 E04H3/00 E04H5/00

CPC: E04F13/0805 E04F13/0812 E04F13/0814 E04F13/0889 E04F13/12 E04F13/0803

European: E04F13/08B2B E04F13/08B2C2 E04F13/08B2C4 E04F13/08R E04F13/12 P04F13/08B2

US: 52/235 52/461 52/464 52/745.1 52/762 52/772 52/775

**Family:**

Publication number	Publication date	Application number	Application date
AU2001265166 AA	20011211	AU20010265166	20010530
CA2410815 AA	20021128	CA20012410815	20010530
US2003205009 AA	20031106	US20030297107	20030512
US7562504 BB	20090721	US20010297107	20010530
WO0192654 A2	20011206	WO2001US17410	20010530
WO0192654 A3	20020725	WO2001US17410	20010530

Priority:

US20000207925P 20000530 US20000296825P 20000530 US20010297107 20010530
 US20030297107 20030512 WO2001US17410 20010530

Probable Assignee: WMH CONSULTING INC

Assignee(s): (std): HERBST MICHAEL P ; HERBST WALTER M ; WMH CONSULTING INC

Inventor(s): (std): HERBST MICHAEL P ; HERBST WALTER M

Inventor(s): MICHAEL P HERBST ; WALTER M HERBST

Agent(s): BERESKIN AND PARR; WESTMAN CHAMPLIN AND KELLY PA

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 CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2001265166 AA	20011211	LSPB	+	published / reissued	
CA2410815 AA	20021128	LSPB	+	published / reissued	
CA2410815 AA	20021128	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2410815 AA	20070530	LSLE	-FZDE	DEAD	
US2003205009 AA	20031106	LSPB	+	published / reissued	
US7562504 BB	20090721	LSGT	+	granted / extensions (spc, cpc, pte)	
US7562504 BB	20030512	LSAS	AS	ASSIGNMENT	OWNER NAME : WMH CONSULTING, INC., MINNESOTA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HERBST, WALTER M.; HERBST, MICHAEL P.; REEL/FRAME:014134/0983 EFFECTIVE DATE : 20030508
US7562504 BB	20090701	LSGT	PAT1	Patented Case	
US7562504 BB	20121227	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
WO0192654 A2	20011206	LSPB	+	published /	

reissued					
WO0192654 A3	20021107	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0192654 A3	20021128	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2410815 COUNTRY OF REF DOCUMENT : CA
WO0192654 A3	20030512	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10297107 COUNTRY OF REF DOCUMENT : US
WO0192654 A3	20050404	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP

Title: RETAINER FOR HOLLOW CHAMBER DISKS COMPRISES POLYCARBONATE PLATES WHICH FORM CHAMBERS

Abstract: Retainer comprises at least two plates and a number of cross pieces with corresponding secure fixings. The retainer has a corresponding attachment for holding the disks. Preferably, the plates are of polycarbonate and form chambers.

Classifications:

International (IPC 8-9): E04C2/54 E04D3/28 (Advanced/Invention);

E04B1/61 (Advanced/Non-invention);

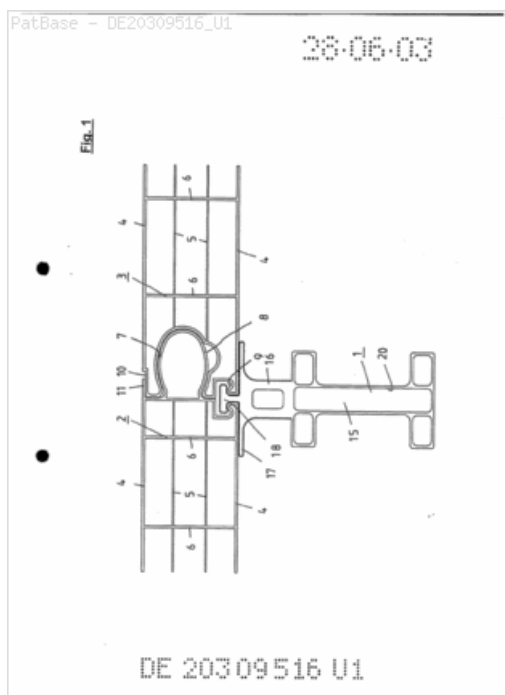
E04C2/54 E04D3/24 (Core/Invention);

E04B1/61 (Core/Non-invention)

International (IPC 1-7): E04B1/61 E04D3/06 E06B3/54

CPC: E04B1/6129 E04C2/543 E04D3/28 E04D2003/285

European: E04C2/54B E04D3/28 P04B1/61D3B1 P04D3/28R



Family:

Publication number	Publication date	Application number	Application date
DE20309516 U1	20030911	DE20032009516U	20030618

Priority:

DE20032009516U 20030618

Probable Assignee:

RODECA GMBH

Assignee(s): (std):

RODECA GMBH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE20309516 U1	20030911	LSGT	+	granted / extensions (spc, cpc, pte)	
DE20309516 U1	20031016	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20031016
DE20309516 U1	20061123	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	EFFECTIVE DATE : 20060919
DE20309516 U1	20100422	LSLE	-R157	LAPSE OF IP RIGHT AFTER 6 YEARS	EFFECTIVE DATE : 20100101

Title: PANEL CLIP ASSEMBLY FOR USE WITH SKYLIGHT OR ROOF PANELS

Abstract: Source: US2003188500A A panel clip assembly for use with skylight or roof panel systems and having allowance for reduced movement of panels both parallel and perpendicular to the seam formed by adjoining panels, together with improved allowance for rotational and pivotal movement of said panels. The panel clip includes a base member with a base plate and upward extending flanges; an interim mount member movably attached to the upward extending flanges of the base member by a pin assembly; and an upper clip assembly for receiving and constraining the panels. The upper clip member is movably attached to the mount member such that said clip member can slide in a direction parallel to the seam formed by adjoining roof panels. In addition, the mount member is capable of rotational movement in the plane of the panels and pivotal movement about the axis of the pin assembly. The clip assembly of the present invention therefore allows for a range of panel movements in response to forces including thermal expansion, seismic activity, loading on the panels and wind uplift.

Classifications:

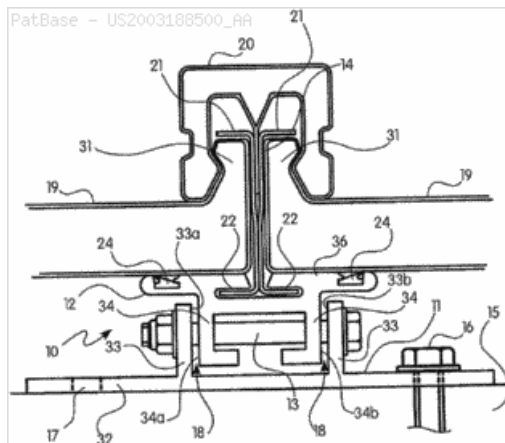
International (IPC 8-9): E04B7/04 E04D3/28 (Advanced/Invention);
E04D3/361 (Advanced/Non-invention);
E04B7/04 E04D3/24 (Core/Invention);
E04D3/36 (Core/Non-invention)

International (IPC 1-7): E04B1/38 E04B9/00 E04C3/00 E04C5/00
E04D1/34 E04D1/36 E06B3/54

CPC: Y10T403/32861 Y10T403/32975 E04D3/28 E04B7/04
E04D2003/285 E04D2003/3615

European: E04B7/04 E04D3/28 P04D3/28R P04D3/361P

US: 403/150 403/164 52/167.1 52/200 52/466 52/478 52/544
52/713 524/660

**Family:**

Publication number	Publication date	Application number	Application date
US2003188500 AA	20031009	US20020117419	20020405
US6845592 BB	20050125	US20020117419	20020405

Priority:

US20020117419 20020405

Probable Assignee: EXTECH EXTERIOR TECHNOLOGIES INC A SUBSIDIARY OF VOEGELE CO INC

Assignee(s): (std): VOEGELE WILLIAM P ; EXTECH INC

Assignee(s): EXTECH EXTERIOR TECHNOLOGIES INC ; EXTECH EXTERIOR TECHNOLOGIES INC A SUBSIDIARY OF VOEGELE CO INC

Inventor(s): (std): VOEGELE WILLIAM P

Agent(s): ECKERT SEAMANS CHERIN AND MELLOTT LLC; ARNOLD B

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2003188500 AA	20031009	LSPB	+	published / reissued	
US2003188500 AA	20170220	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6845592 BB	20050125	LSGT	+	granted / extensions (spc, cpc, pte)	
US6845592 BB	20041216	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EXTECH EXTERIOR TECHNOLOGIES, INC., A SUBSIDIARY OF OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, WILLIAM P.; REEL/FRAME:015470/0762 EFFECTIVE DATE : 20041209
US6845592 BB	20050503	LSRE	CC	CERTIFICATE OF CORRECTION	
US6845592 BB	20080602	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6845592 BB	20120711	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6845592 BB	20170125	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6845592 BB	20170314	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20170125

Title: Sliding hold-down clip for standing seam metal roof

Abstract: Source: US6715256B A sliding hold-down clip (1) for connecting a roof panel (52) to a purlin (52) in which a support portion (14) extends from a base (12), the support portion defining a slot (20) with fasteners (34) that connect to a roof-engaging plate (36), the fasteners guiding longitudinal movement of the roof-engaging plate (36) along the slot relative to the clip, a distal end of the plate defining a hook (40) for connecting to edges of adjacent roof panels (52), a pair of opposing wings (46, 48) extending laterally from the roof-engaging plate (36) and angled to conform to an angulation of a side portion of the roof panel, whereby fasteners (58) extending through the roof panel and the wings secure the roof panel to the roof-engaging plate. A method of securing roof panels to purlins is disclosed.

Classifications:

International (IPC 8-9): E04D3/362 (Advanced/Invention);
E04D3/361 (Advanced/Non-invention);
E04D3/36 (Core/Invention)

International (IPC 1-7): E04B1/38 E04B2/00 E04D1/00 E04D1/34

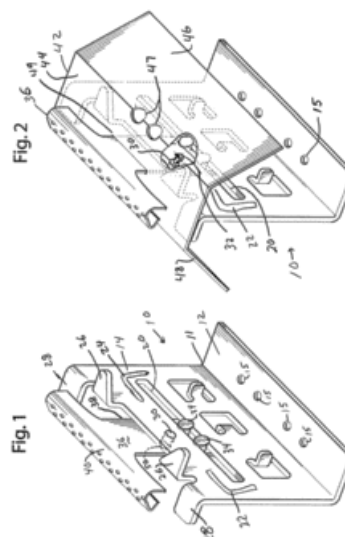
CPC: E04D3/362 E04D2003/3615

European: E04D3/362 P04D3/361P

US: 52/537 52/538 52/545 52/546 52/582.1 52/713 52/7130

PatBase - US6715256_BA

U.S. Patent Apr. 6, 2004 Sheet 1 of 2 US 6,715,256 B1



Family:

Publication number	Publication date	Application number	Application date
US6715256 BA	20040406	US20020113541	20020329

Priority:

US20020113541 20020329

Probable Assignee: MAGNATRAX CORP

Assignee(s): (std): MAGNATRAX CORP

Inventor(s): (std): FISCHER KEITH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US6715256 BA	20040406	LSGT	+	granted / extensions (spc, cpc, pte)	
US6715256 BA	20020329	LSAS	AS	ASSIGNMENT	OWNER NAME : MAGNATRAX CORPORATION, ALABAMA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:FISCHER, KEITH E.; REEL/FRAME:012758/0373 EFFECTIVE DATE : 20020323
US6715256 BA	20040318	LSGT	PAT1	Patented Case	
US6715256 BA	20070808	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6715256 BA	20110929	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6715256 BA	20150812	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

Title: LIGHT TRANSMISSION PANELS, RETAINING CLIP AND A COMBINATION THEREOF

Abstract: Source: US2004261336A A glazing panel system is provided with improved glazing panels, retention clips and/or U-shaped connectors. The retention clip may engage the glazing panels at locations lower than top ends of the upstanding seam flanges. In one embodiment, an internal U-shaped connector is positioned to engage the seam flanges while an external U-shaped connector covers the internal connector and the seam between adjacent glazing panels. The glazing panels may be formed with pockets adjacent the base of the upstanding seam flanges to receive a portion of the retention clip to apply retention forces at locations below the upper ends of the seam flanges. The retention clips may be formed with an upper transverse portion that is movable relative to the base portion of the clip to accommodate panel expansion and contraction. Also, a thicker plate or portion may be provided at a top flange for the retention clip to provide increased resistance to uplift loads trying to bend the flange.

Classifications:

International (IPC 8-9): E04B2/14 E04B7/18 E04C2/38 E04C2/54 E04C3/00 E04D1/34 E04D13/03 E04D3/02 E04D3/06 E04D3/08 E04D3/28 E04D3/361 E04D3/366 E04H9/14 E04H9/16 E06B3/54 E06B3/58 (Advanced/Invention); E04C2/54 E04D3/361 (Advanced/Non-invention); E04B2/14 E04B7/18 E04C2/38 E04C3/00 E04D1/34 E04D13/03 E04D3/02 E04D3/24 E04D3/36 E04H9/14 E04H9/16 E06B3/54 E06B3/58 (Core/Invention); E04C2/54 (Core/Non-invention)

International (IPC 1-7): E04B7/18 E06B1/00

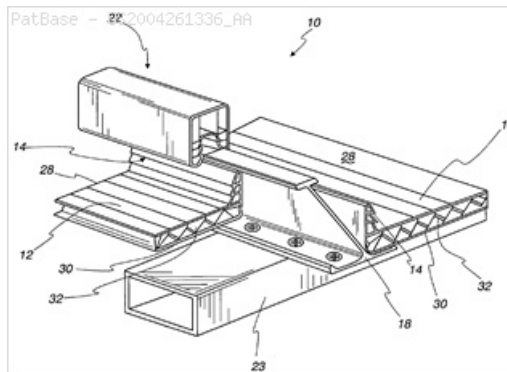
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European: E04C2/54B E04D3/08 E04D3/28 E04D3/366 P04D3/08P1 P04D3/08R1A P04D3/28R P04D3/361P

US: 52/200 52/200P 52/204.63 52/204.630S 52/459 52/460 52/461 52/465 52/466 52/469 52/57 52/582.1 52/582.100P 52/852 524/66

Locarno class: 05/22



Family:

Publication number	Publication date	Application number	Application date
CA2530936 AA	20051228	CA20042530936	20040625
CA2530936 C	20120103	CA20042530936	20040625
DE602004049185 D1	20160609	DE200460049185T	20040625
EP1651836 A2	20060503	EP20040756201	20040625
EP1651836 A4	20111130	EP20040756201	20040625
EP1651836 B1	20160427	EP20040756201	20040625
US2004261336 AA	20041230	US20030607748	20030627
US2005120646 AA	20050609	US20040960156	20041007
US2009049770 AA	20090226	US20080259007	20081027
US2009049771 AA	20090226	US20080259034	20081027
US2011179739 AA	20110728	US20110080520	20110405
US7441379 BB	20081028	US20030607748	20030627
US7546708 BB	20090616	US20040960156	20041007
US7765760 BB	20100803	US20080259007	20081027
US7926236 BB	20110419	US20080259034	20081027
US8713880 BB	20140506	US20110080520	20110405
WO05003497 A2	20050113	WO2004US20598	20040625
WO05003497 A3	20070308	WO2004US20598	20040625

Priority:

EP20040756201 20040625 US20030607748 20030627 US20040960156 20041007
 US20080259007 20081027 US20080259034 20081027 US20110080520 20110405
 WO2004US20598 20040625

Probable Assignee: KONVIN ASSOCIATES LTD PARTNERSHIP

Assignee(s): (std): CPI INT INC ; CPI INTERNATIONAL INC ; KONSTANTIN MOSHE ; KONVIN ASSOCIATES LTD PARTNERS ; KONVIN ASSOCIATES LTD PARTNERSHIP

Assignee(s): KONVIN ASSOCIATES LTD PARTNERSHIP LAKE FOREST ; KONVIN ASSOCIATES PARTNERSHIP LTD ; KONVIN ASSOCIATES LIMITED PARTNERSHIP ; KONVIN ASSOCIATES LTD

Inventor(s): (std): KONSTANTIN MOSHE

Inventor(s): KONSTANTIN MOSHE HIGHLAND PARK

Agent(s): MACRAE AND CO; HOFFMANN EITLE; FITCH EVEN TABIN AND FLANNERY; FITCH EVEN TABIN AND FLANNERY 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

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Patent	Date recorded	Event group	Code	Event	Details
CA2530936 AA	20051228	LSPB	+	published / reissued	
CA2530936 AA	20051228	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2530936 AA	20090625	LSSES	+EEER	EXAMINATION REQUEST	

CA2530936 C	20120103	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP1651836 A2	20170322	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
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EP1651836 A2	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20160625
EP1651836 A2	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160427
EP1651836 B1	20160427	LSGT	+	granted / extensions (spc, cpc, pte)	
US2004261336 AA	20041230	LSPB	+	published / reissued	
US2005120646 AA	20050609	LSPB	+	published / reissued	
US2009049770 AA	20090226	LSPB	+	published / reissued	
US2009049771 AA	20090226	LSPB	+	published / reissued	
US2009049771 AA	20081027	LSAS	AS	ASSIGNMENT	OWNER NAME : KONVIN ASSOCIATES LIMITED PARTNERSHIP, ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: KONSTANTIN, MOSHE; REEL/FRAME: 021742/0487 EFFECTIVE DATE : 20081027
US2011179739 AA	20110728	LSPB	+	published / reissued	
US2011179739 AA	20140318	LSAS	AS	ASSIGNMENT	OWNER NAME : KONVIN ASSOCIATES LIMITED PARTNERSHIP, ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: KONSTANTIN, MOSHE;

US7441379 BB	20081028	LSGT	+	granted / extensions (spc, cpc, pte)	
US7441379 BB	20030627	LSAS	AS	ASSIGNMENT	OWNER NAME : KONVIN ASSOCIATES LIMITED PARTNERSHIP, ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KONSTANTINE, MOSHE; REEL/FRAME:014248/0381 EFFECTIVE DATE : 20030626
US7441379 BB	20081008	LSGT	PAT1	Patented Case	
US7441379 BB	20120430	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7441379 BB	20160429	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7546708 BB	20090616	LSGT	+	granted / extensions (spc, cpc, pte)	
US7546708 BB	20050203	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KONVIN ASSOCIATES LIMITED PARTNERSHIP, ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KONSTANTIN, MOSHE; REEL/FRAME:015645/0578 EFFECTIVE DATE : 20050131
US7546708 BB	20090527	LSGT	PAT1	Patented Case	
US7546708 BB	20130528	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7546708 BB	20161216	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7765760 BB	20100803	LSGT	+	granted / extensions (spc, cpc, pte)	
US7765760 BB	20100714	LSGT	PAT1	Patented Case	
US7765760 BB	20140203	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7926236 BB	20110419	LSGT	+	granted / extensions (spc, cpc, pte)	
US7926236 BB	20081027	LSAS	AS	ASSIGNMENT	OWNER NAME : KONVIN ASSOCIATES LIMITED PARTNERSHIP, ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KONSTANTIN, MOSHE; REEL/FRAME:021742/0487 EFFECTIVE DATE : 20081027
US7926236 BB	20110330	LSGT	PAT1	Patented Case	
US7926236 BB	20141020	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8713880 BB	20140506	LSGT	+	granted / extensions (spc, cpc, pte)	
US8713880 BB	20140416	LSGT	PAT1	Patented Case	
WO05003497 A2	20050113	LSPB	+	published / reissued	
WO05003497 A3	20051228	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2530936 COUNTRY OF REF DOCUMENT : CA
WO05003497 A3	20060117	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004756201 COUNTRY OF REF DOCUMENT : EP
WO05003497 A3	20060503	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2004756201 COUNTRY OF REF DOCUMENT : EP

Title: PANEL CLIP ASSEMBLY FOR USE WITH ROOF OR WALL PANELS

Abstract: Source: US2005102943A A clip assembly secures standing seam skylight or roofing panels to substrates and allows for a full range of movements by the panels while eliminating or reducing frictional noises. The clip assembly may also be used with wall panel systems. The clip assembly includes a first clip member and a second clip member each having an upright member and an upper flange member and a lower flange member extending therefrom. The assembly further includes a gap formed between the upright member of the first clip member and the upright member of the second clip member. In one aspect the clip assembly includes a base which allows the assembly to slide.

Classifications:

International (IPC 8-9): E04B1/38 E04B2/00 E04D1/36 E04D3/361

E04D3/366 F16B5/00 (Advanced/Invention);

E04B1/38 E04B2/00 E04D1/00 E04D3/36 F16B5/00 (Core/Invention)

International (IPC 1-7): E04B2/00

CPC: E04D3/363 E04D3/361 E04D3/366 E04D2003/285

E04D2003/3615 Y10T24/44017 Y10T403/32229

European: E04D3/361 E04D3/366 P04D3/28R P04D3/361P

US: 24/457 24/457P 403/80 403/80S 52/461 52/466 52/506.01

52/506.010P 52/582.1 52/582.100P 52/582.100S 52/698 52/698S

PatBase - US2005102943_AA

Patent Application Publication May 19, 2005 Sheet 1 of 5 US 2005/0102943 A1

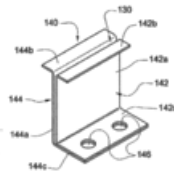


FIG. 1

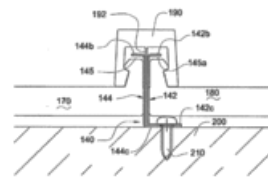


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
US2005102943 AA	20050519	US20030706557	20031113
US2008053026 AA	20080306	US20070934194	20071102
US2009293241 AA	20091203	US20090537338	20090807
US7313893 BB	20080101	US20030706557	20031113
US7788869 BB	20100907	US20090537338	20090807

Priority:

US20030706557 20031113 US20070934194 20071102 US20090537338 20090807

Probable Assignee: EXTECH EXTERIOR TECHNOLOGIES INC

Assignee(s): (std): EXTECH INC ; VOEGELE JR WILLIAM P ; VOEGELE WILLIAM P JR

Assignee(s): VOEGELE WILLIAM PJR ; EXTECH AND EXTERIOR TECHNOLOGIES INC ; EXTECH EXTERIOR TECHNOLOGIES INC

Inventor(s): (std): VOEGELE JR WILLIAM P ; VOEGELE WILLIAM P JR

Inventor(s): VOEGELE WILLIAM PJR ; VOEGELE WILLIAM ; VOEGELE WILLIAM P

Agent(s): HAROLD A WILLIAMSON; MCKAY AND ASSOCIATES PC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2005102943 AA	20050519	LSPB	+	published / reissued	
US2008053026 AA	20080306	LSPB	+	published / reissued	
US2008053026 AA	20090903	LSWD	-EAB1	Expressly Abandoned -- During Examination	
US2009293241 AA	20091203	LSPB	+	published / reissued	
US7313893 BB	20080101	LSGT	+	granted / extensions (spc, cpc, pte)	
US7313893 BB	20071113	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, WILLIAM

P., JR.;
REEL/FRAME:020102/0912
EFFECTIVE DATE : 20071108

US7313893 BB	20071212	LSGT	PAT1	Patented Case	
US7313893 BB	20110531	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7313893 BB	20160101	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7313893 BB	20160201	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7313893 BB	20160223	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160101
US7788869 BB	20100907	LSGT	+	granted / extensions (spc, cpc, pte)	
US7788869 BB	20100628	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, WILLIAM P., JR.; REEL/FRAME:024601/0703 EFFECTIVE DATE : 20071108
US7788869 BB	20100628	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC.,PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, WILLIAM P., JR.; REEL/FRAME:024601/0703 EFFECTIVE DATE : 20071108
US7788869 BB	20100628	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC.,PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, WILLIAM P., JR.; REEL/FRAME:24601/703 EFFECTIVE DATE : 20071108
US7788869 BB	20140907	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7788869 BB	20141006	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7788869 BB	20141028	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20140907

Title: REDUCED FRICTION FASTENING CLIP ASSEMBLY FOR USE WITH STANDING SEAM ROOF OR WALL PANEL SYSTEMS

Abstract: Source: US2007033893A A roof or wall panel system that includes a first panel having a first longitudinal seam a second panel having a second longitudinal seam, and a clip assembly that includes a vertical web or webs having a first exterior side and a second exterior side. The t vertical web or webs and is/are provided between the first and second longitudinal seams. Also included is at least one spacer element that is provided between the first and second longitudinal seams. The at least one spacer element has at least one portion having a thickness that is greater than a distance between the first exterior side and the second exterior side of the vertical web or webs.

Classifications:

International (IPC 8-9): E04B1/38 E04B2/00 E04C3/00 E04D1/34 E04D1/36 (Advanced/Invention);

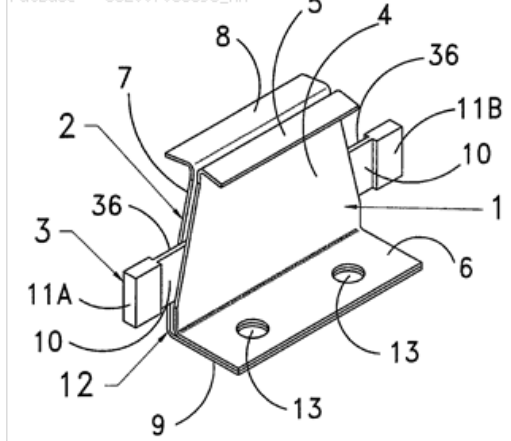
E04B1/38 E04B2/00 E04C3/00 E04D1/00 E04D1/34 (Core/Invention)

CPC: E04D2003/3615 E04D3/363 E04D3/366 E04D3/28 E04D2003/285

European: E04D3/363 E04D3/366

US: 52/459 52/460 52/461 52/465 52/466 52/468 52/470 52/471 52/472 52/506.05 52/506.06 52/545 52/546 52/582.1 52/582.2 52/588.1

PatBase - US2007033893_AA



Family:

Publication number	Publication date	Application number	Application date
US2007033893 AA	20070215	US20060463510	20060809
US2009301018 AA	20091210	US20090533037	20090731
US7661234 BB	20100216	US20060463510	20060809
US7748186 BB	20100706	US20090533037	20090731

Priority:

US20050706979P 20050810 US20060463510 20060809 US20090533037 20090731

Probable Assignee: EXTECH EXTERIOR TECHNOLOGIES INC

Assignee(s): (std): EXTECH INC ; VOEGELE JR WILLIAM P

Assignee(s): EXTECH EXTERIOR TECHNOLOGIES INC

Inventor(s): (std): VOEGELE JR WILLIAM P

Inventor(s): JR WILLIAM P ; VOEGELE ; VOEGELE JR WILLIAM

Agent(s): ECKERT SEAMANS CHERIN AND MELLOTT; MCKAY AND ASSOCIATES PC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2007033893 AA	20070215	LSPB	+	published / reissued	
US2007033893 AA	20060809	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, JR., WILLIAM P.; REEL/FRAME:018081/0001 EFFECTIVE DATE : 20060809
US2009301018 AA	20091210	LSPB	+	published / reissued	
US7661234 BB	20100216	LSGT	+	granted / extensions (spc, cpc, pte)	
US7661234 BB	20060809	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, JR., WILLIAM P.; REEL/FRAME:018081/0001 EFFECTIVE DATE : 20060809
US7661234 BB	20060809	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, JR., WILLIAM P.; REEL/FRAME:018081/0001 EFFECTIVE DATE : 20060809

US7661234 BB	20060809	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, JR., WILLIAM P.; US-ASSIGNMENT DATABASE UPDATED:20100216; REEL/FRAME:18081/1 EFFECTIVE DATE : 20060809
US7661234 BB	20100127	LSGT	PAT1	Patented Case	
US7661234 BB	20100316	LSRE	CC	CERTIFICATE OF CORRECTION	
US7661234 BB	20130815	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7748186 BB	20100706	LSGT	+	granted / extensions (spc, cpc, pte)	
US7748186 BB	20100511	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, WILLIAM P., JR.; REEL/FRAME:024363/0906 EFFECTIVE DATE : 20100506
US7748186 BB	20100511	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, WILLIAM P., JR.; REEL/FRAME:024363/0906 EFFECTIVE DATE : 20100506
US7748186 BB	20100511	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, WILLIAM P., JR.; REEL/FRAME:24363/906 EFFECTIVE DATE : 20100506
US7748186 BB	20100511	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VOEGELE, WILLIAM P., JR.; US-ASSIGNMENT DATABASE UPDATED:20100511; REEL/FRAME:24363/906 EFFECTIVE DATE : 20100506
US7748186 BB	20140706	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7748186 BB	20140804	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7748186 BB	20140826	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20140706

Title: FUEL CELL STRUCTURE

Abstract: Source: CN2911974Y The utility model provides a fuel cell structure, comprising a output pole plate, a gas exchanging layer, a proton exchanging layer and spacers, which is characterized in that: a layer of cover board is arranged between the output pole plate and the gas exchanging layer for increasing the pressure on the pole plate; a plurality of through holes are arranged on the top of the cover board, a plurality of contact pieces is arranged on the sides of the cover plate, and the contact pieces are integrated and are springy and tilting; the contact pieces are connected with output pole plate, a folded face is arranged on the tilting top of each the contact piece, the folder face is in parallel with the cover plate; a through hole is arranged through the contact plate and the relating cover plate; a fuel flow passage is arranged in the output pole plate, the contact plate in the cover plate is against the inner side of the fuel flow passage. The utility model solves the problem of the uneven pressure or under pressure in the battery when working, and improves the quality of the battery by stablbing the flow and output conducting impedance.

Classifications:

International (IPC 8-9): H01M8/00 H01M8/02 H01M8/0258 H01M8/04

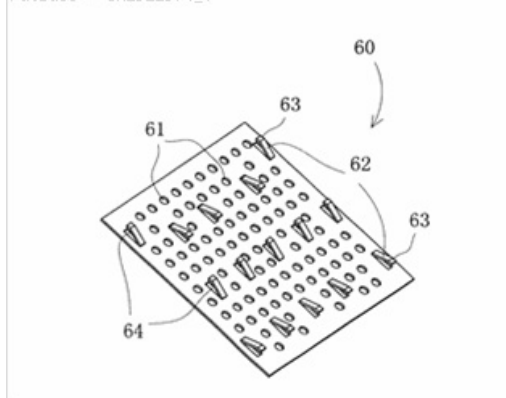
H01M8/04089 H01M8/10 H01M8/1004 (Advanced/Invention);

H01M8/00 H01M8/02 H01M8/04 H01M8/10 (Core/Invention)

CPC: Y02E60/521

European: Y02E60/52B

PatBase - CN2911974_Y

**Family:**

Publication number	Publication date	Application number	Application date
CN2911974 Y	20070613	CN200620013747U	20060424

Priority:

CN200620013747U 20060424

Probable Assignee:

LI JUNSHENG

Assignee(s): (std):

LI JUNSHENG

Inventor(s): (std):

LI JUNSHENG

Inventor(s):

JUNSHENG LI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2911974 Y	20070613	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2911974 Y	20070613	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2911974 Y	20080903	LSRE	C53	CORRECTION OF PATENT FOR INVENTION OR PATENT APPLICATION	
CN2911974 Y	20080903	LSRE	COR	CHANGE OF BIBLIOGRAPHIC DATA	DESCRIPTION : CORRECT: INVENTOR; FROM: LI JUNSHENG TO: ZHONG GUOBIN; ZHAN SHIHONG; SU AI; WENG FANGBO; LI JUNSHENG
CN2911974 Y	20100804	LSLE	-C17	CESSATION OF PATENT RIGHT	

Title: GENERATING HISTOGRAMS OF POPULATION DATA BY SCALING FROM SAMPLE DATA

Abstract: Source: US2008059125A Histograms formed based on samples of a population, such as histograms created from random page-level samples of a data store, are intelligently scaled to histograms estimating distribution of the entire population of the data store. As an optional optimization, where a threshold number of duplicate samples are observed during page-level sampling, the number of distinct values in the overall population data is presumed to be the number of distinct values in the sample data. Also, during estimation of distinct values of an overall population, a "Chao" estimator can optionally be utilized as a lower bound of the estimate. The resulting estimate is then used when scaling, which can take domain knowledge of the data being scaled into account in order to prevent scaled estimates from exceeding the limits of the domain. Also, a "sum of the parts" mathematical relationship can be taken into account during scaling that the sum of the scaled distinct values for each bin of an estimate histogram should total an estimate for the total distinct values of the entire population.

Classifications:

International (IPC 8-9): G06F15/18 G06F17/18 G06F17/30

G06F17/40 G06F19/00 (Advanced/Invention);

G06F15/18 G06F17/18 G06F17/30 G06F17/40

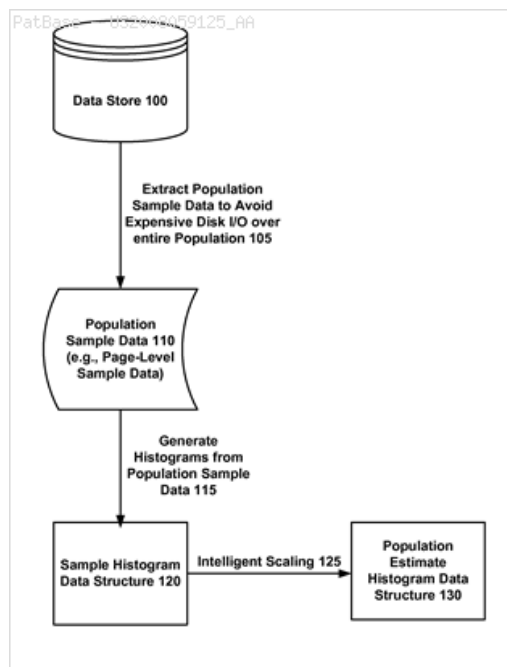
G06F19/00 (Core/Invention)

CPC: G06F17/18 G06F17/30469

European: G06F17/18 G06F17/30S4P3T5S

US: 702/127 702/179 702/180 702/182 702/189 706/12 706/12S

707/713 707/713P 707/E17.017 707/E17.017S

**Family:**

Publication number	Publication date	Application number	Application date
US2008059125 AA	20080306	US20060469855	20060902
US2010138407 AA	20100603	US20100700274	20100204
US7707005 BB	20100427	US20060469855	20060902
US8316009 BB	20121120	US20100700274	20100204

Priority:

US20060469855 20060902 US20100700274 20100204

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): (std): FRASER CAMPBELL BRYCE ; JOSE IAN ; MICROSOFT CORP ; ZABBACK PETER ALFRED

Assignee(s): MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): FRASER CAMPBELL BRYCE ; JOSE IAN ; ZABBACK PETER ALFRED

Agent(s): AMIN TUROCY AND CALVIN LLP; MICROSOFT CORP; TUROCY AND WATSON LLP; ZETE LAW PLLC; MACLANE C

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2008059125 AA	20080306	LSPB	+	published / reissued	
US2008059125 AA	20060905	LSAS	AS	ASSIGNMENT	OWNER NAME : MICROSOFT CORPORATION, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FRASER, CAMPBELL; JOSE, IAN; ZABBACK, PETER; REEL/FRAME:018201/0940 EFFECTIVE DATE : 20060901
US2010138407 AA	20100603	LSPB	+	published / reissued	
US2010138407 AA	20100204	LSAS	AS	ASSIGNMENT	OWNER NAME : MICROSOFT CORPORATION, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FRASER, CAMPBELL; JOSE, IAN; ZABBACK, PETER; REEL/FRAME:023901/0012

EFFECTIVE DATE : 20060901					
US2010138407 AA	20100204	LSAS	AS	ASSIGNMENT	OWNER NAME : MICROSOFT CORPORATION, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: FRASER, CAMPBELL; JOSE, IAN; ZABBACK, PETER; REEL/FRAME: 23901/12 EFFECTIVE DATE : 20060901
US7707005 BB	20100427	LSGT	+	granted / extensions (spc, cpc, pte)	
US7707005 BB	20060905	LSAS	AS	ASSIGNMENT	OWNER NAME : MICROSOFT CORPORATION, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: FRASER, CAMPBELL; JOSE, IAN; ZABBACK, PETER; REEL/FRAME: 018201/0940 EFFECTIVE DATE : 20060901
US7707005 BB	20060905	LSAS	AS	ASSIGNMENT	OWNER NAME : MICROSOFT CORPORATION, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: FRASER, CAMPBELL; JOSE, IAN; ZABBACK, PETER; REEL/FRAME: 018201/0940 EFFECTIVE DATE : 20060901
US7707005 BB	20060905	LSAS	AS	ASSIGNMENT	OWNER NAME : MICROSOFT CORPORATION, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: FRASER, CAMPBELL; JOSE, IAN; ZABBACK, PETER; US-ASSIGNMENT DATABASE UPDATED: 20100427; REEL/FRAME: 18201/940 EFFECTIVE DATE : 20060901
US7707005 BB	20100407	LSGT	PAT1	Patented Case	
US7707005 BB	20130925	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7707005 BB	20141209	LSAS	AS	ASSIGNMENT	OWNER NAME : MICROSOFT TECHNOLOGY LICENSING, LLC, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: MICROSOFT CORPORATION; REEL/FRAME: 034542/0001 EFFECTIVE DATE : 20141014
US8316009 BB	20121120	LSGT	+	granted / extensions (spc, cpc, pte)	
US8316009 BB	20100204	LSAS	AS	ASSIGNMENT	OWNER NAME : MICROSOFT CORPORATION, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: FRASER, CAMPBELL; JOSE, IAN; ZABBACK, PETER; REEL/FRAME: 023901/0012 EFFECTIVE DATE : 20060901
US8316009 BB	20100204	LSAS	AS	ASSIGNMENT	OWNER NAME : MICROSOFT CORPORATION, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: FRASER, CAMPBELL; JOSE, IAN; ZABBACK, PETER; REEL/FRAME: 023901/0012 EFFECTIVE DATE : 20060901
US8316009 BB	20121031	LSGT	PAT1	Patented Case	
US8316009 BB	20141209	LSAS	AS	ASSIGNMENT	OWNER NAME : MICROSOFT TECHNOLOGY LICENSING, LLC, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: MICROSOFT CORPORATION; REEL/FRAME: 034564/0001 EFFECTIVE DATE : 20141014
US8316009 BB	20160505	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

Title: ASSEMBLY FOR SECURING TWO JUXTAPOSED PANELS TO A STRUCTURE

Abstract: Source: US2010242397A An assembly (14, 16) for securing two juxtaposed panels (64, 66) to a structure (74), each panel including a joining flange (68, 70) located at, or adjacent to, respective juxtaposed edges thereof. The assembly includes a retaining member (14) having a substantially planar surface (24) supporting at opposite edges thereof respective first flanges (26, 28) and a clamping member (16) having two spaced-apart legs (48, 40) depending from a web (36). Second flanges (46, 48) are each supported on a facing internal surface of a respective one of the legs so as to extend away from the web. Each leg engages a respective exposed surface of an adjacent joining flange, the first and second flanges being oriented in opposite directions so as to interlock when the clamping member is mounted on the retaining member and thereby limit lateral separation of the legs.

Classifications:

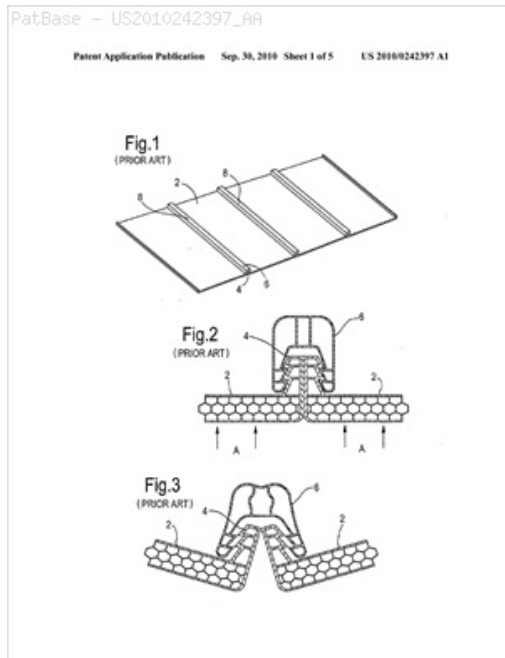
International (IPC 8-9): E04B2/32 E04C2/38 E04C2/54 E04D3/28 (Advanced/Invention);
E04B2/28 E04C2/38 E04C2/54 E04D3/24 (Core/Invention)

International (IPC 1-7): E04C2/54

CPC: E04C2/543 E04D3/28 E04D2003/285

European: E04C2/54B E04D3/28 P04D3/28R

US: 52/459 52/461 52/463 52/464 52/582.1 52/584.1 52/584.100S 52/588.1 52/588.100P



Family:

Publication number	Publication date	Application number	Application date
CN101743366 A	20100616	CN200880024650	20080603
DE602008037208 D1	20150430	DE200860037208T	20080603
EP2165026 A1	20100324	EP20080763504	20080603
EP2165026 B1	20150318	EP20080763504	20080603
ES2539654 T3	20150702	ES20080763504T	20080603
IL183640 A0	20071031	IL20070183640	20070604
IL183640 A1	20110630	IL20070183640	20070604
IN07863DN2009 A	20100730	IN2009DN07863	20091202
MX2009013237 A1	20100125	MX20090013237	20080603
US2010242397 AA	20100930	US20080663236	20080603
US8650827 BB	20140218	US20080663236	20080603
WO08149344 A1	20081211	WO2008IL00746	20080603

Priority:

EP20080763504 20080603 IL20070183640 20070604 WO2008IL00746 20080603

Probable Assignee: DAN PAL

Assignee(s): (std): BEN ZVI NIR ; DAN PAL ; GIVONI SHAUL

Assignee(s): DAN PAL KIBBUTZ DAN

Inventor(s): (std): BEN ZVI NIR ; GIVONI SHAUL ; NIR BEN ZVI ; SHAUL GIVONI

Agent(s): WOLF ECKHARD; DE ELZABURU ALBERTO; WOLFF BREGMAN AND GOLLER; SMITH GAMBRELL AND RUSSELL; SMITH GAMBRELL AND RUSSELL LLP

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 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 ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN101743366 A	20100616	LSPB	+	published / reissued	
CN101743366 A	20100616	LSPB	+C06	PUBLICATION	
CN101743366 A	20140730	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT	

				APPLICATION AFTER PUBLICATION (PATENT LAW 2001)		
EP2165026 A1	20100324	LSPB	+	published / reissued		
EP2165026 A1	20100324	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20091230	
EP2165026 A1	20150121	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20150105	
EP2165026 A1	20150318	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D	
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EP2165026 A1	20150408	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D	
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ES2539654 T3	20150702	LSGT	+	granted / extensions (spc, cpc, pte)	
IL183640 A1	20110630	LSPB	+	published / reissued	

IL183640 A1	20111130	LSGT	+FF	PATENT GRANTED	
IL183640 A1	20111229	LSFE	+KB	PATENT RENEWED	
IL183640 A1	20130530	LSFE	+KB	PATENT RENEWED	
IL183640 A1	20170529	LSFE	+KB	PATENT RENEWED	
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MX2009013237 A1	20100125	LSPB	+	published / reissued	
MX2009013237 A1	20141020	LSGT	+FG	GRANT OR REGISTRATION	
US2010242397 AA	20100930	LSPB	+	published / reissued	
US2010242397 AA	20100604	LSAS	AS	ASSIGNMENT	OWNER NAME : DAN-PAL, ISRAEL DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GIVONI, SHAUL; BEN- ZVI, NIR; REEL/FRAME:024487/0498 EFFECTIVE DATE : 20100301
US8650827 BB	20140218	LSGT	+	granted / extensions (spc, cpc, pte)	
US8650827 BB	20140129	LSGT	PAT1	Patented Case	
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WO08149344 A1	20091205	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO08149344 A1	20100604	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12663236 COUNTRY OF REF DOCUMENT : US

Title: MODULAR PANEL UNITS FOR CONSTRUCTIONAL PURPOSES

Abstract: Source: US2010126099A A panel unit (2) for constructional purposes has at least two joining flanges (10, 12) on opposite surfaces (4, 4') located at, or adjacent to, a common edge of the panel unit, and projecting in mutually opposite directions. Two such panel units (2) may be juxtaposed end to end and secured by a two-part connector (17) having a base portion (18) that is adapted for attaching to a fixed structural element (20) and for anchoring to the flanges (12) on a first surface (4) of the panel units 2, and a cap (19) adapted for anchoring to the flanges (10) on an opposite surface (4') of the panel units (2) and for anchoring to the base portion.

Classifications:

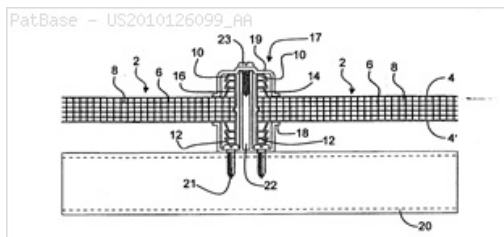
International (IPC 8-9): E04B E04B1/00 E04B1/61 E04C2/38 E04C2/54 E04D3/24 E04D3/28 E04D3/36 E04D3/365 E04F13/076 E04F13/26 E04H9/14 E04H9/16 (Advanced/Invention); E04C2/38 E04C2/54 E04D3/24 E04D3/36 E04F13/26 (Core/Invention); E04B (Subclass/Invention)

International (IPC 1-7): E04C2/54

CPC: E04C2/543 E04D3/28 E04D2003/285 E04C2/54 E04D3/36 E04F13/26

European: E04C2/54B E04D3/28 P04D3/28R

US: 52/459 52/461 52/463 52/464 52/582.1 52/582.100P



Family:

Publication number	Publication date	Application number	Application date
CN101720373 A	20100602	CN200880019747	20080612
CN103174256 A	20130626	CN201310086222	20080612
CN103174256 B	20160803	CN201310086222	20080612
DE602008039945 D1	20151015	DE200860039945T	20080612
EP2165027 A1	20100324	EP20080763556	20080612
EP2165027 B1	20150902	EP20080763556	20080612
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IL183898 A1	20140731	IL20070183898	20070613
IN07928DN2009 A	20100716	IN2009DN07928	20091204
KR101588342 B1	20160212	KR20097026597	20080612
KR20100021617 A	20100225	KR20097026597	20080612
MX2009013577 A1	20100125	MX20090013577	20080612
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RU2471932 C2	20130110	RU20100100888	20080612
US2010126099 AA	20100527	US20080452009	20080612
US8316609 BB	20121127	US20080452009	20080612
WO08152637 A1	20081218	WO2008IL00798	20080612

Priority:

CN200880019747 20080612 EP20080763556 20080612 IL20070183898 20070613
WO2008IL00798 20080612

Probable Assignee: DAN PAL

Assignee(s): (std): BEN ZVI NIR ; DAN PAL ; NIR BEN ZVI

Assignee(s): DAN PAL KIBBUTZ DAN

Inventor(s): (std): BEN ZVI NIR ; NIR BEN ZVI

Inventor(s): BEN-ZVI NIR

Agent(s): WOLF ECKHARD; DE ELZABURU ALBERTO; WOLFF BREGMAN AND GOLLER; SMITH GAMBRELL AND RUSSELL; SMITH GAMBRELL AND RUSSELL LLP

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 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 ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN101720373 A	20100602	LSPB	+	published / reissued	
CN101720373 A	20100602	LSPB	+C06	PUBLICATION	
CN101720373 A	20130904	LSRV	-C12	REJECTION OF A PATENT APPLICATION AFTER ITS PUBLICATION	
CN103174256 A	20130626	LSPB	+	published / reissued	
CN103174256 A	20130626	LSPB	+C06	PUBLICATION	
CN103174256 A	20160803	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN103174256 B	20160803	LSGT	+	granted / extensions (spc,	

EP2165027 A1	20100324	LSPB	+	cpc, pte) published / reissued	
EP2165027 A1	20100324	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20091230
EP2165027 A1	20130626	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20130527
EP2165027 A1	20150624	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20150601
EP2165027 A1	20150819	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20150723
EP2165027 A1	20150902	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2165027 A1	20150915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2165027 A1	20150915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 746727 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20150915
EP2165027 A1	20150923	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2165027 A1	20151015	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602008039945 COUNTRY OF REF DOCUMENT : DE
EP2165027 A1	20151207	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2553336 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20151207
EP2165027 A1	20160115	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 746727 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20150902
EP2165027 A1	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2165027 A1	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2165027 A1	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902

EP2165027 A1	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151203
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EP2165027 A1	20160210	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2165027 A1	20160229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2165027 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2165027 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2165027 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
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EP2165027 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160104
EP2165027 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM	COUNTRY OF REF DOCUMENT : RO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE

				NAT. OFFICE TO EPO	DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2165027 A1	20160603	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602008039945 COUNTRY OF REF DOCUMENT : DE
EP2165027 A1	20160621	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP2165027 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 9
EP2165027 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160628 YEAR OF FEE PAYMENT : 9
EP2165027 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160622 YEAR OF FEE PAYMENT : 9
EP2165027 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160622 YEAR OF FEE PAYMENT : 9
EP2165027 A1	20160810	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20160603
EP2165027 A1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2165027 A1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2165027 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 9
EP2165027 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 9
EP2165027 A1	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20160707 YEAR OF FEE PAYMENT : 9
EP2165027 A1	20161230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2165027 A1	20161230	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20160711 YEAR OF FEE PAYMENT : 9
EP2165027 A1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE

				VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150902
EP2165027 A1	20170131	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
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EP2165027 A1	20170322	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2165027 A1	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20160612
EP2165027 B1	20150902	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2553336 T3	20151207	LSGT	+	granted / extensions (spc, cpc, pte)	
IL183898 A0	20141130	LSGT	+FF	PATENT GRANTED	
IL183898 A0	20141130	LSFE	+KB	PATENT RENEWED	
IL183898 A1	20140731	LSPB	+	published / reissued	
IN07928DN2009 A	20100716	LSPB	+	published / reissued	
KR101588342 B1	20160212	LSGT	+	granted / extensions (spc, cpc, pte)	
KR20100021617 A	20100225	LSPB	+	published / reissued	
KR20100021617 A	20130329	LSSES	A201	REQUEST FOR EXAMINATION	
KR20100021617 A	20150529	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20100021617 A	20151228	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20100021617 A	20160119	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
MX2009013577 A1	20100125	LSPB	+	published / reissued	
MX2009013577 A1	20130123	LSGT	+FG	GRANT OR REGISTRATION	
RU2010100888 A	20110720	LSPB	+	published / reissued	
RU2471932 C2	20130110	LSGT	+	granted / extensions (spc, cpc, pte)	
US2010126099 AA	20100527	LSPB	+	published / reissued	
US2010126099 AA	20100125	LSAS	AS	ASSIGNMENT	OWNER NAME : DAN-PAL, ISRAEL DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BEN-ZVI, NIR; REEL/FRAME:023841/0310 EFFECTIVE DATE : 20100103
US8316609 BB	20121127	LSGT	+	granted / extensions (spc, cpc, pte)	
US8316609 BB	20100125	LSAS	AS	ASSIGNMENT	OWNER NAME : DAN-PAL, ISRAEL DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BEN-ZVI, NIR; REEL/FRAME:023841/0310 EFFECTIVE DATE : 20100103
US8316609 BB	20121107	LSGT	PAT1	Patented Case	

US8316609 BB	20160523	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
WO08152637 A1	20081218	LSPB	+	published / reissued	
WO08152637 A1	20091215	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO08152637 A1	20091221	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20097026597 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A
WO08152637 A1	20100113	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010100888 COUNTRY OF REF DOCUMENT : RU
WO08152637 A1	20100125	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12452009 COUNTRY OF REF DOCUMENT : US

Title: INTERNAL STRUCTURAL MULLION FOR STANDING SEAM PANEL SYSTEM

Abstract: Source: US2010132293A Provided is an internal structural mullion for a standing seam panel system. A two-piece assembly includes a main extrusion having one hooked portion and a secondary extrusion having an opposing hooked portion. A cavity is defined on the main extrusion, and the secondary extrusion includes a foot wherein upon insertion of the foot into the cavity, the foot forms a fulcrum about which the secondary extrusion can bend away from the main extrusion and be tightened or loosened by the tightening or loosening of a screw, as a result forming a clamp for engaging panels of the panel system with variable pressure. Further, when clamped a continuous gasket seal occurs at a level just inside the panels so as to form a barrier against the intrusion of water.

Classifications:**International (IPC 8-9):** E04B1/68 E04C2/38

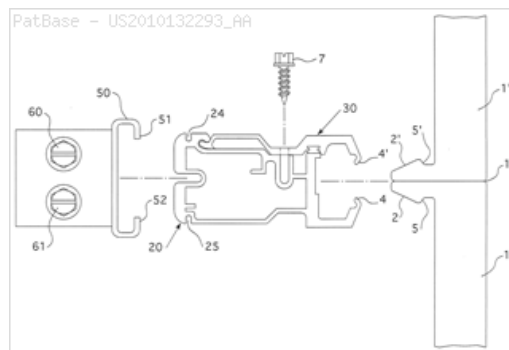
E04D1/34 (Advanced/Invention);

E04C2/38 (Core/Invention)

CPC: E04F13/0814 F16B2/10 Y10T403/4674**European:** E04F13/08B2C4 R16B2/10**US:** 248/226.11 248/228.1 248/231.61 248/71 403/256 403/DIG.9

52/402 52/402P 52/489.1 52/489.100S 52/543 52/582.1

52/582.100S

**Family:**

Publication number	Publication date	Application number	Application date
US2010132293 AA	20100603	US20090625956	20091125
US2012272599 AA	20121101	US20120539705	20120702
US8256181 BB	20120904	US20090625956	20091125
US8443565 BB	20130521	US20120539705	20120702

Priority:US20080118703P 20081201
US20120539705 20120702

US20090226875P 20090720

US20090625956 20091125

Probable Assignee: EXTECH EXTERIOR TECHNOLOGIES INC**Assignee(s):** (std): EXTECH INC ; SMITH KEVIN P ; VOEGELE JR WILLIAM P**Assignee(s):** EXTECH EXTERIOR TECHNOLOGIES INC**Inventor(s):** (std): SMITH KEVIN P ; VOEGELE JR WILLIAM P**Agent(s):** MCKAY AND ASSOCIATES PC; MCKAY AND ASSOCIATES P C**Legal status (INPADOC)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US2010132293 AA	20100603	LSPB	+	published / reissued	
US2010132293 AA	20100111	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VOEGELE, WILLIAM P., JR.; SMITH, KEVIN P.; SIGNED BETWEEN 20091226 AND 20100105; REEL/FRAME:23757/875
US2010132293 AA	20100111	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VOEGELE, WILLIAM P., JR.; SMITH, KEVIN P.; SIGNED DATES FROM 20091226 TO 20100105; REEL/FRAME:023757/0875
US2012272599 AA	20121101	LSPB	+	published / reissued	
US2012272599 AA	20121228	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VOEGELE, WILLIAM P., JR.; SMITH, KEVIN P.; SIGNED DATES FROM 20091226 TO 20100105; REEL/FRAME:029537/0558
US8256181 BB	20120904	LSGT	+	granted / extensions (spc, cpc, pte)	
US8256181 BB	20100111	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR

					TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VOEGELE, WILLIAM P., JR.; SMITH, KEVIN P.; SIGNING DATES FROM 20091226 TO 20100105; REEL/FRAME:023757/0875
US8256181 BB	20100111	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VOEGELE, WILLIAM P., JR.; SMITH, KEVIN P.; SIGNING DATES FROM 20091226 TO 20100105; REEL/FRAME:023757/0875
US8256181 BB	20120815	LSGT	PAT1	Patented Case	
US8256181 BB	20160301	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8443565 BB	20130521	LSGT	+	granted / extensions (spc, cpc, pte)	
US8443565 BB	20121228	LSAS	AS	ASSIGNMENT	OWNER NAME : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VOEGELE, WILLIAM P., JR.; SMITH, KEVIN P.; SIGNING DATES FROM 20091226 TO 20100105; REEL/FRAME:029537/0558
US8443565 BB	20130501	LSGT	PAT1	Patented Case	
US8443565 BB	20161116	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

Title: CONNECTING ELEMENTS FOR PANELS AND PANEL COVERING ASSEMBLIES

Abstract: Source: US2011225926A Connecting element for panels (11, 12) comprising a flange (19) having a presser (19') at a first end, a first longitudinal seat (20a) for receiving and engaging an extension (13) of a first panel (11) in an intermediate portion, and a enlarged base (28) at a second end, said first longitudinal seat (20a) being open in an area adjacent to said flange and delimited, besides by said flange (19) also by a first lateral wall (22) opposite to said flange (19) and by a first base wall (25) for connecting said first lateral wall (22) with said flange (19), said enlarged base (28) defining with a first projection (29), which extends from a first end thereof towards said first base wall (25), a first longitudinal channel (20b) delimited by said flange (19), said first base wall (25), said enlarged base (28) and said first projection (29), wherein said first base wall (25) extends in the direction orthogonal to said flange (19) at least over a section equivalent to the distance between said flange (19) and said first projection (29).

Classifications:**International (IPC 8-9):** E04B1/61 E04B2/00 E04C2/00

E04D3/28 (Advanced/Invention)

CPC: Y10T403/30 E04D3/28 E04D2003/285 E04D2013/045

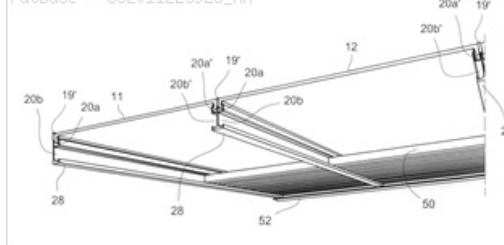
E04F10/02 E04F10/0607 E04F10/08

European: E04D3/28 E04F10/02 E04F10/08 P04D13/04B30B

P04D3/28R P04F10/02 P04F10/06D P04F10/06N

US: 403/49 403/49S 52/762 52/764 52/766 52/782.1 52/782.100P

PatBase - US2011225926_AA

**Family:**

Publication number	Publication date	Application number	Application date
DE602011000463 D1	20130117	DE201160000463T	20110128
EP2354359 A1	20110810	EP20110152561	20110128
EP2354359 B1	20121121	EP20110152561	20110128
IT1398045 B1	20130207	IT2010MI00131	20100129
ITMI20100131 A1	20110730	IT2010MI00131	20100129
US2011225926 AA	20110922	US20110931349	20110128
US8307607 BB	20121113	US20110931349	20110128

Priority:

EP20110152561 20110128 IT2010MI00131 20100129

Probable Assignee: POLITEC POLIMERI TECNICI SA**Assignee(s):** (std): CONTERNO COSIMO ; KOSCON IND SA ; POLITEC POLIMERI TECNICI S A ; POLITEC POLIMERI TECNICI SA ; POLITEC POLIMERI TECNICI S A ORA KOSCON IND S A**Assignee(s):** KOSCON INDUSTRIAL SA ; POLITEC POLIMERI TECNICI ORA KOSCON INDUSTRIAL SA**Inventor(s):** (std): CONTERNO COSIMO**Inventor(s):** CONTERNO COSIMO 6850**Agent(s):** SCHIEBER FARAGO; COLETTI RAIMONDO; GIULI MAURIZIO MARIO GALDINO; HEDMAN AND COSTIGAN PC; JAMES V**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**Legal status (INPADOC)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
EP2354359 A1	20110810	LSPB	+	published / reissued	
EP2354359 A1	20120208	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20111230
EP2354359 A1	20120328	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20120223
EP2354359 A1	20120704	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E04D 3/28 20060101AFI20120525BHEP
EP2354359 A1	20121114	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	PARTYTYPE : OWNER OWNER : KOSCON INDUSTRIAL SA
EP2354359 A1	20121121	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2354359 A1	20121130	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2354359 A1	20121215	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 585169 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) :

					EFFECTIVE DATE : 20121215
EP2354359 A1	20121219	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2354359 A1	20130117	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602011000463 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130117
EP2354359 A1	20130403	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP2354359 A1	20130415	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 585169 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20121121
EP2354359 A1	20130425	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2354359 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20121121
EP2354359 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130304
EP2354359 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20121121
EP2354359 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NO NOTIFICATIONOFAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130221
EP2354359 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20121121
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				EPO	LAPSED DATE : 20121121
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EP2354359 A1	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121121
EP2354359 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121121
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EP2354359 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121121
EP2354359 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130221
EP2354359 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121121
EP2354359 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RS NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121121
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EP2354359 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130131

				INFORM. FROM NAT. OFFICE TO EPO	
EP2354359 A1	20131023	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2354359 A1	20131030	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20130822
EP2354359 A1	20131219	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602011000463 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130822
EP2354359 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130128
EP2354359 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AL NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121121
EP2354359 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HR NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130731
EP2354359 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20140129 YEAR OF FEE PAYMENT : 4
EP2354359 A1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MT NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121121
EP2354359 A1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SM NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121121
EP2354359 A1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121121
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EP2354359 A1	20150828	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP2354359 A1	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150131
EP2354359 A1	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150131
EP2354359 A1	20151223	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 6
EP2354359 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151223 YEAR OF FEE PAYMENT : 6
EP2354359 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20151223 YEAR OF FEE PAYMENT : 6
EP2354359 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20151217 YEAR OF FEE PAYMENT : 6
EP2354359 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160112 YEAR OF FEE PAYMENT : 6
EP2354359 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20151223 YEAR OF FEE PAYMENT : 6
EP2354359 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160126 YEAR OF FEE PAYMENT : 6
EP2354359 A1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IS NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20121121
EP2354359 A1	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170131
EP2354359 B1	20121121	LSGT	+	granted / extensions (spc, cpc, pte)	
IT1398045 B1	20130207	LSGT	+	granted / extensions (spc, cpc, pte)	
ITM120100131 A1	20110730	LSPB	+	published / reissued	
US2011225926 AA	20110922	LSPB	+	published / reissued	
US8307607 BB	20121113	LSGT	+	granted / extensions (spc, cpc, pte)	
US8307607 BB	20110606	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

OWNER : POLITEC POLIMERI
TECNICI S.A., SWITZERLAND
OLDPARTY : ASSIGNMENT OF
ASSIGNORS INTEREST;
ASSIGNOR: COSIMO CONTERNO;
REEL/FRADE: 026398/0671
EFFECTIVE DATE : 20110315

US8307607 BB	20161113	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US8307607 BB	20161212	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8307607 BB	20170103	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20161113

Title: DUAL GLAZING PANEL SYSTEM

Abstract: Source: US8056289B A transparent or translucent modular upstanding seam flange panel unit comprising opposed seam flange panels mounted in metal male and female locking engagement members designed to interlock and provide an internal gutter for collecting infiltrating water and for accommodating lateral expansion and contraction of the panels as well as a method for erecting an architectural structure for passing sunlight into an interior region of a building using such panel units.

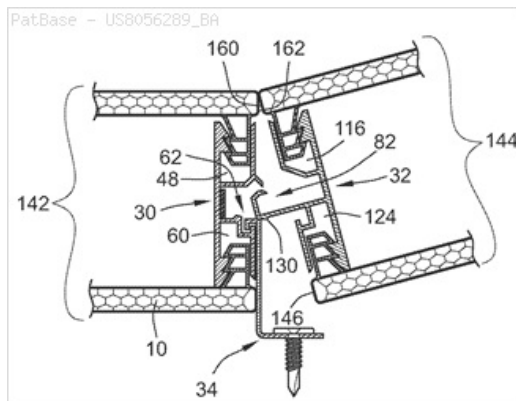
Classifications:

International (IPC 8-9): E04C2/20 E04C2/38 E06B3/663 E06B3/988 E06B7/14 E06B7/28 (Advanced/Invention)

CPC: E04D3/357 E04D3/28 E04D3/35 E04D3/352 E04D3/355 E04D2003/285

European: E04D3/28 E04D3/35 E04D3/35A1 E04D3/35A3 E04D3/35B P04D3/28R

US: 52/204.591 52/302.3 52/582.1 52/745.16



Family:

Publication number	Publication date	Application number	Application date
US8056289 BA	20111115	US20090426129	20090417
US8544223 BA	20131001	US20110293901	20111110

Priority:

US20080045818P 20080417 US20090426129 20090417 US20110293901 20111110

Probable Assignee: KONVIN ASSOCIATES LP

Assignee(s): (std): KONSTANTIN MOSHE ; KONVIN ASSOCIATES LTD

Assignee(s): KONVIN ASSOCIATES LP

Inventor(s): (std): KONSTANTIN MOSHE

Agent(s): DRINKER BIDDLE AND REATH LLP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US8056289 BA	20111115	LSGT	+	granted / extensions (spc, cpc, pte)	
US8056289 BA	20090824	LSAS	AS	ASSIGNMENT	OWNER NAME : KONVIN ASSOCIATES LTD., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KONSTANTIN, MOSHE; REEL/FRAME:023137/0760 EFFECTIVE DATE : 20090727
US8056289 BA	20111026	LSGT	PAT1	Patented Case	
US8056289 BA	20150312	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8056289 BA	20160629	LSAS	AS	ASSIGNMENT	OWNER NAME : KONVIN ASSOCIATES, L.P., ILLINOIS DESCRIPTION : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNEE'S NAME PREVIOUSLY RECORDED AT REEL: 023137 FRAME: 0760. ASSIGNOR(S) HEREBY CONFIRMS THE ASSIGNMENT; ASSIGNOR:KONSTANTIN, MOSHE; REEL/FRAME:039207/0205 EFFECTIVE DATE : 20090727
US8544223 BA	20131001	LSGT	+	granted / extensions (spc, cpc, pte)	
US8544223 BA	20130911	LSGT	PAT1	Patented Case	
US8544223 BA	20160629	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KONVIN ASSOCIATES, L.P., ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KONSTANTIN, MOSHE; REEL/FRAME:039043/0133

US8544223 BA 20170403	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
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Title: WALL AND SKYLIGHT PANEL SYSTEM WITH ATTACHMENT CLIP

Abstract: Source: US2012151867A A base member, clip assembly, and panels forming a panel system with a covered seam. The base member is configured at each building structural support. The clip assembly includes a base clip slidably situated within base member between the seam, the base clip further having a vertical web and various flanges. A retainer clip engages the base clip such that retainer clip, base clip, and base member all make contact with both panels. A batten then snaps into and engages upstanding legs of the panels to further secure the panels at the seam, filling a recess. In an alternative embodiment of the clip assembly, the top of the base clip terminates at L-shaped flanges which lock a slotted, U-shaped retainer clip. In a further embodiment, the top of the base clip terminates at a loop, and the retainer "clip" is formed as a flexible seat.

Classifications:

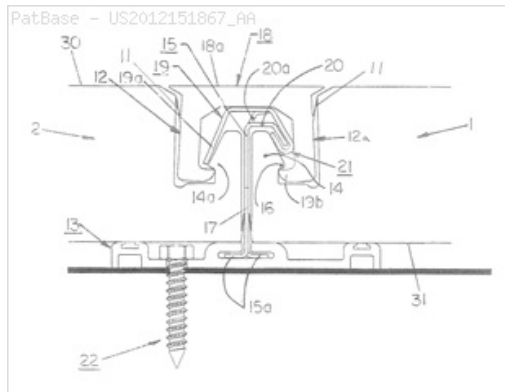
International (IPC 8-9): E04B1/38 E04B2/00 E04C2/30

E04C2/38 (Advanced/Invention)

CPC: E04C2/543 E04D3/28 E04D3/366 E04D2003/285 E04F13/081 E04F13/0892 F16B5/0064 E04D2003/3615

European: E04D3/28 E04D3/366 P04D3/28R R16B5/00A3C

US: 52/581 52/582.1 52/582.100S 52/588.1 52/588.100P



Family:

Publication number	Publication date	Application number	Application date
US2012151867 AA	20120621	US20110326519	20111215
US8584424 BB	20131119	US20110326519	20111215

Priority:

US20100423615P 20101216 US20110326519 20111215 US20110513760P 20110801

Probable Assignee: EXTECH EXTERIOR TECHNOLOGIES INC

Assignee(s): (std): EXTECH INC ; SMITH KEVIN P ; VOEGELE JR WILLIAM P

Assignee(s): EXTECH EXTERIOR TECHNOLOGIES INC

Inventor(s): (std): VOEGELE JR WILLIAM P ; SMITH KEVIN P

Agent(s): MCKAY AND ASSOCIATES PC

Legal status (INPADOC)

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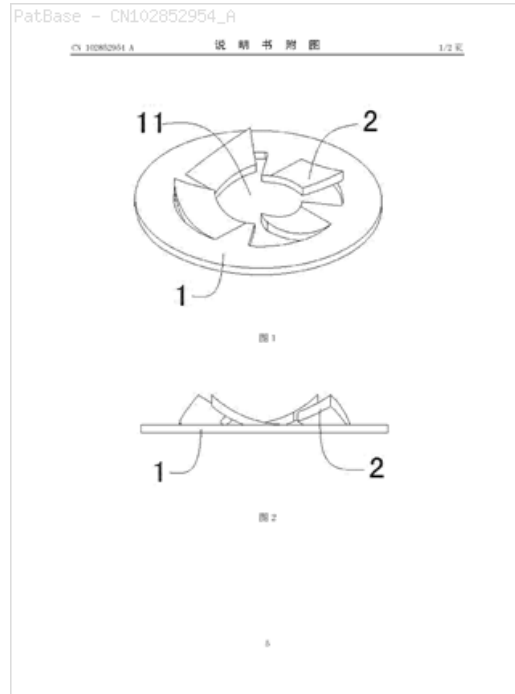
Patent	Date recorded	Event group	Code	Event	Details
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US8584424 BB	20131119	LSGT	+	granted / extensions (spc, cpc, pte)	
US8584424 BB	20120109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EXTECH/EXTERIOR TECHNOLOGIES, INC., PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SMITH, KEVIN P.; VOEGELE, WILLIAM P., JR.; SIGNING DATES FROM 20111228 TO 20120103; REEL/FRAME:027499/0983
US8584424 BB	20131030	LSGT	PAT1	Patented Case	
US8584424 BB	20170517	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

Title: ELASTIC WASHER WITH ELASTIC BUFFER POINTS

Abstract: Source: CN102852954A The invention discloses an elastic washer with elastic buffer points. The elastic washer comprises an annular tabular washer body (1), wherein a mounting through hole (11) is formed in the middle of the washer body (1); the washer body (1) is provided with a plurality of elastic sheets (2) which cock towards the same side of the washer body (1); and the elastic sheets (2) are arranged symmetrically to the center of the washer body (1). The elastic sheets form a structure with elastic buffer points, so that the elastic washer with the elastic buffer points acts on a fastener very uniformly when in use, and is not liable to generate stress, age and break down, and the connection structure is very reliable, so that the elastic washer has the advantages of uniform stress, firmness and reliability, simple structure and low cost.

Classifications:

International (IPC 8-9): F16B43/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN102852954 A	20130102	CN201210338067	20120913

Priority:

CN201210338067 20120913

Probable Assignee:

HU HEPING

Assignee(s): (std):

HU HEPING

Inventor(s): (std):

HU HEPING

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN102852954 A	20130102	LSPB	+	published / reissued	
CN102852954 A	20130102	LSPB	+C06	PUBLICATION	
CN102852954 A	20141224	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	

Title: DUAL GLAZING PANEL SYSTEM

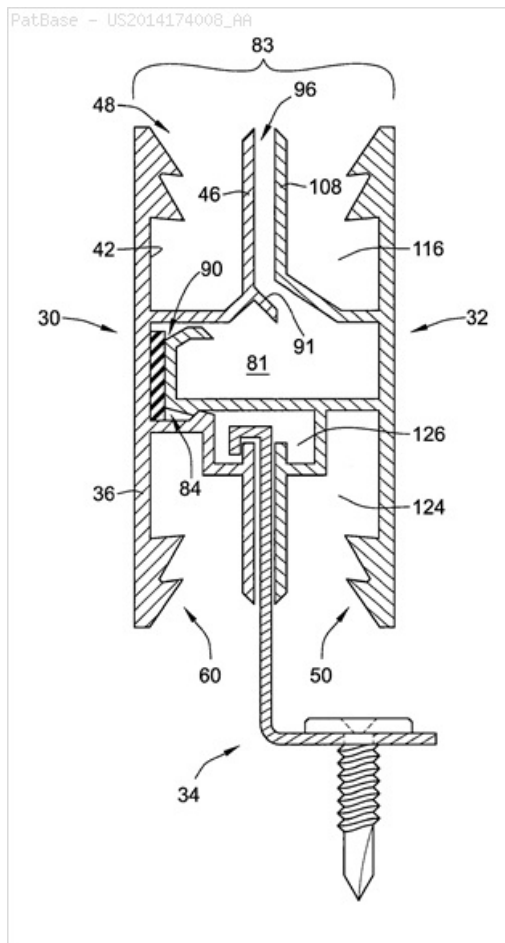
Abstract: Source: US2014174008A A panel unit with interlocked first and second engagement members each having panel-receiving cavities for receiving and retaining edge portions of panels, two pairs of opposed transparent or translucent panels mounted in the cavities of the first and second engagement members, in which the panel units are subject to positive and negative forces which may cause the engagement members to pivot with respect to each other and the first engagement member has catch rails for engaging sidewalls defining an interlock cavity in the second engagement member to limit the pivoting movement of the engagement members.

Classifications:

International (IPC 8-9): E04C2/54 E04D3/28 E04D3/34 E04D3/35 E06B3/64 E06B3/66 (Advanced/Invention)

CPC: E04D3/35 E04D3/357 E04D3/28 E04C2/543 E04D2003/285 E04D3/352 E04D3/355

US: 1/1 52/204.593 52/204.6 52/209

**Family:**

Publication number	Publication date	Application number	Application date
CA2885428 AA	20150318	CA20132885428	20130920
EP2898166 A1	20150729	EP20130839170	20130920
EP2898166 A4	20160622	EP20130839170	20130920
US2014174008 AA	20140626	US20130839646	20130315
US2015308183 AA	20151029	US20130648232	20130920
US9151056 BB	20151006	US20130839646	20130315
US9528266 BB	20161227	US20130648232	20130920
WO14047466 A1	20140327	WO2013US60974	20130920

Priority:

US20080045818P 20080417	US20090426129 20090417	US20120736847P 20121213
US20120704242P 20120921	US20110293901 20111110	US20130648232 20130920
US20130839646 20130315	US20130860545P 20130731	WO2013US60974 20130920

Probable Assignee: KONVIN ASS L P

Assignee(s): (std): CPI DAYLIGHTING INC ; KONSTANTIN MOSHE ; KONVIN ASS L P ; KONVIN ASSOCIATES L P

Assignee(s): KONVIN ASSOCIATES L P

Inventor(s): (std): KONSTANTIN MOSHE

Agent(s): BORDEN LADNER GERVAIS LLP; WILSON ALAN STUART; DRINKER BIDDLE AND REATH LLP; MICHAEL BEST AND FRIEDRICH LLP; SUFRIN BARRY W ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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

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Patent **Date recorded** **Event group** **Code** **Event** **Details**

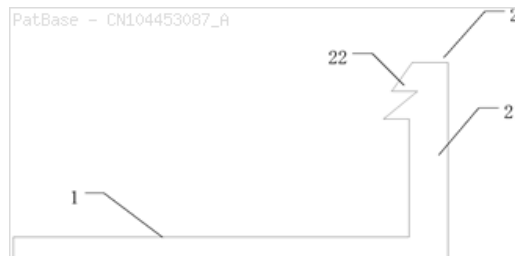
CA2885428 AA	20150318	LSPB	+	published / reissued	
EP2898166 A1	20150729	LSPB	+	published / reissued	
EP2898166 A1	20150729	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20150327
EP2898166 A1	20160622	LSES	+RA4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20160523
EP2898166 A1	20160622	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E04D 3/28 20060101AFI20160517BHEP
EP2898166 A1	20170503	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20170329
US2014174008 AA	20140626	LSPB	+	published / reissued	
US2014174008 AA	20150827	LSAS	AS	ASSIGNMENT	OWNER NAME : KONVIN ASSOCIATES, L.P., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: KONSTANTIN, MOSHE; REEL/FRAME: 036442/0962 EFFECTIVE DATE : 20150825
US2015308183 AA	20151029	LSPB	+	published / reissued	
US2015308183 AA	20160413	LSAS	AS	ASSIGNMENT	OWNER NAME : KONVIN ASSOCIATES, L.P., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: KONSTANTIN, MOSHE; REEL/FRAME: 038266/0987 EFFECTIVE DATE : 20160413
US9151056 BB	20151006	LSGT	+	granted / extensions (spc, cpc, pte)	
US9151056 BB	20150916	LSGT	PAT1	Patented Case	
US9528266 BB	20161227	LSGT	+	granted / extensions (spc, cpc, pte)	
US9528266 BB	20161207	LSGT	PAT1	Patented Case	
WO14047466 A1	20140327	LSPB	+	published / reissued	
WO14047466 A1	20150318	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2885428 COUNTRY OF REF DOCUMENT : CA
WO14047466 A1	20150323	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO14047466 A1	20150528	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14648232 COUNTRY OF REF DOCUMENT : US

Title: PC BOARD FOR ENERGY-SAVING GREENHOUSE AND ENERGY-SAVING GREENHOUSE

Abstract: Source: CN104453087A The invention discloses a PC board for an energy-saving greenhouse and the energy-saving greenhouse. The PC board comprises a heat-insulation additive, wherein the mass percentage content of the heat-insulation additive is 0.05-5 percent; the heat-insulation additive is gold, indium tin oxide or a mixture of gold and indium tin oxide. The PC board and the energy-saving greenhouse, provided by the invention, have the advantages as follows: since the PC board takes gold, indium tin oxide or other materials as the heat-insulation additive, the light transmittance can be increased, and the heat insulation effect of the energy-saving greenhouse can be improved when the PC board is used for the energy-saving greenhouse; besides, the PC board can facilitate the building or breaking of the energy-saving greenhouse via a clamping mechanism.

Classifications:

International (IPC 8-9): E04C2/54 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN104453087 A	20150325	CN201410692494	20141126

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CN104453087 A	20150325	LSPB	+	published / reissued	
CN104453087 A	20150325	LSPB	+C06	PUBLICATION	