

Search history

Search 1: FT=(MODULAR~ AND BUILDING~ AND CONSTRUCTION~) (Results 77019)
Search 2: FT=(MODULAR~ AND BUILDING~ AND CONSTRUCT*~ AND CONNECTOR) IC=(E04B) (Results 0)
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Search 4: FT=(MODULAR~ AND BUILDING~ AND CONSTRUCTION~ AND CONNECTOR) (Results 16836)
Search 5: E04B (Results 730)
Search 6: 5 AND 4 (Results 27)

Title: **MODULAR** DECKING TILE

Abstract: A tile for forming a **modular** deck with like-configured tiles, the tile having a web having a planar polygonal upper surface and a lower surface, a web strengthening structure on said lower surface, and a plurality of peripheral edges, where at least one of the edges includes a male connecting portion having a lateral tongue extending from the peripheral edge, and at least one of the edges includes a female connecting portion defining a lateral recess in the peripheral edge. In one embodiment, at least three of the peripheral edges include either of the male connecting portions or the female connecting portions.

Classifications:

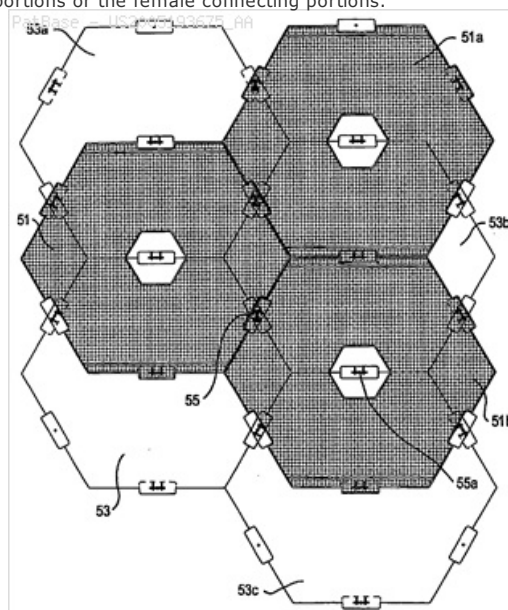
International (IPC 8-9): E01C11/02 E01C5/16 E01C5/20 E01C9/08
E04B5/02 E04F15/06 E04F15/10 (Advanced/Invention);
E01C11/02 E01C5/00 E01C9/00 E04B5/02 E04F15/06
E04F15/10 (Core/Invention)

International (IPC 1-7): E01C11/02 E01C5/16 E01C5/20 E04B2/00
E04B5/02 E04F15/06 E04F15/10

CPC: E04F15/02194 E04F15/105 E04B5/026 E01C5/16 E01C5/20
E01C9/08 E04B5/02 E04F15/06 E04F2201/0505 E04F2201/091
E04F2201/096

European: E01C5/16 E01C5/20 E01C9/08 E04B5/02 E04B5/02P
E04F15/06 E04F15/10 P04F201/05A P04F201/09A P04F201/09D

US: 52/578



Family:

Publication number	Publication date	Application number	Application date
AU2002950813 A0	20020912	AU20020950813	20020809
AU2003250582 AA	20040225	AU20030250582	20030808
CA2494479 AA	20050201	CA20032494479	20030808
CN1675433 A	20050928	CN20038018975	20030808
MXPA05001598 A1	20050819	MX2005PA01598	20030808
US2005193675 AA	20050908	US20050054204	20050209
WO04015202 A1	20040219	WO2003AU01010	20030808

Priority:

AU20020950813 20020809 AU20030250582 20030808 WO2003AU01010 20030808

Probable Assignee: HEXAGON INT PTY LTD

Assignee(s): (std): JAMES SMART GREGORY ; SMART GREGORY J ; SMART GREGORY JAMES ; SMART LYNDY J ; SMART LYNDY JANE ; WOOTTON DARRYL JOHN ; HEXAGON INT PTY LTD ; HEXAGON INTERNAT PTY LTD

Assignee(s): HEXAGON INTERNATIONAL PTY LTD ; WOOTTON DARRYL J

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Inventor(s): WOOTTON DARRYL ; SMART LYNDY ; DARRYL JOHN WOOTTON ; GREGORY JAMES SMART ; LYNDY JANE SMART ; SMART GREGORY

Agent(s): PHILLIPS ORMONDE FITZPATRICK; BERESKIN AND PARR LLP SENCRL SRL; WOODCOCK WASHBURN LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2003250582 AA	20040225	LSPB	+	published / reissued	
AU2003250582 AA	20090305	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
CA2494479 AA	20050201	LSPB	+	published / reissued	
CA2494479 AA	20090810	LSLE	-FZDE	DEAD	
CN1675433 A	20050928	LSPB	+	published / reissued	

CN1675433 A	20050928	LSPB	+C06	PUBLICATION	
CN1675433 A	20080319	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
MXPA05001598 A1	20050819	LSPB	+	published / reissued	
MXPA05001598 A1	20140630	LSWD	-FA	ABANDONMENT OR WITHDRAWAL	
US2005193675 AA	20050908	LSPB	+	published / reissued	
US2005193675 AA	20080710	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2005193675 AA	20080710	LSWD	-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	TEXT : ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
WO04015202 A1	20040219	LSPB	+	published / reissued	
WO04015202 A1	20050201	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003250582 COUNTRY OF REF DOCUMENT : AU
WO04015202 A1	20050201	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2494479 COUNTRY OF REF DOCUMENT : CA
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WO04015202 A1	20060725	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : JP

Title: **CONNECTOR** WITH PROJECTIONS OF CONICAL OR SEMI - CONICAL SECTION

Abstract: The present invention describes a **connector** (1) with conical or semi-conical section, with snap-type bayonet coupling mechanism that allows an easy fixation and remotion of a **building** structure. These **connectors** can present variable geometry and length. A **building** structure comprising a plurality of such **connectors** (1) as well as a process of **construction** of said **building** structure is also described here.

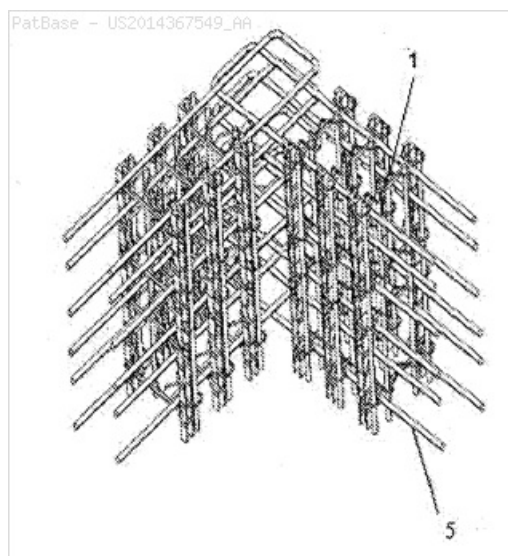
Classifications:

International (IPC 8-9): E04B1/348 E04B2/86 E04C5/06 E04C5/065 E04C5/16 E04C5/20 E04G13/04 E04G13/06 E04G17/00 E04G21/12 E04H9/02 (Advanced/Invention); E04B2/86 (Core/Invention)

CPC: E04C5/065 E04C5/168 E04G17/001 E04G13/06 E04G13/04 E04C5/162 E04B2/86

European: E04B2/86

US: 249/213



Family:

Publication number	Publication date	Application number	Application date
AU2012389957 AA	20140320	AU20120389957	20121231
BR112014016206 A2	20170613	BR20141116206	20121231
BR112014016206 A8	20170613	BR20141116206	20121231
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CN104364452 B	20180824	CN201280071059	20121231
CO7101215 A2	20141031	CO20140165925	20140730
IN01525MN2014 A	20150508	IN2014MN01525	20140730
ITTO20111250 A1	20120331	IT2011TO01250	20111231
JP2015506426 T2	20150302	JP20140549642T	20121231
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NZ721451 A	20180323	NZ20120721451	20121231
PE21252014 A1	20150111	PE20140001052	20121231
TH146656 A	20160304	TH20141003831	20121231
US2014367549 AA	20141218	US20120369753	20121231
WO14041572 A1	20140320	WO2012IT00407	20121231

Priority:

IT2011TO01250 20111231 NZ20120628070 20121231 WO2012IT00407 20121231

Probable Assignee: CABONI MCHELE

Assignee(s): (std): CABONI MCHELE ; CABONI MICHELE ; MICHELE CABONI

Inventor(s): (std): MICHELE CABONI ; CABONI MCHELE ; CABONI MICHELE

Agent(s): PIPERS; PIPERS PATENT ATTORNEYS; CHOUDHARY ASHUTOSH; CABONI MICHELE DR; IP INFORM; AGENCEDEBREVETSCA PATENTAGENCYCA; JARRY IP JARRY IP SPA; GARAVELLI PAOLO

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 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 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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2012389957 AA	20140320	LSPB	+	published / reissued	
AU2012389957 AA	20180426	LSLE	-MK5	APPLICATION LAPSED SECTION 142(2)(E) - PATENT REQUEST	

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AU2012389957 AA	20190221	LSLE	-MK5	APPLICATION LAPSED SECTION 142(2)(E) - PATENT REQUEST AND COMPL. SPECIFICATION NOT ACCEPTED	
BR112014016206 A2	20171031	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	
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CA2901167 AA	20181218	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20181207
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CN104364452 B	20180824	LSGT	+GR01	PATENT GRANT	
CN104364452 B	20321231	PEXP		Calculated Patent Term Expiry	
CO7101215 A2	20141031	LSPB	+	published / reissued	
IN01525MN2014 A	20150508	LSPB	+	published / reissued	
ITTO20111250 A1	20120331	LSPB	+	published / reissued	
JP2015506426 T2	20150302	LSPB	+	published / reissued	
MA35890 B1	20141201	LSGT	+	granted / extensions (spc, cpc, pte)	
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NZ721451 A	20180629	LSGT	+PSEA	PATENT SEALED	
NZ721451 A	20180727	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 31 DEC 2019 BY MICHELE CABONI EFFECTIVE DATE : 20180715
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TH146656 A	20160304	LSPB	+	published / reissued	
US2014367549 AA	20141218	LSPB	+	published / reissued	
US2014367549 AA	20150625	LSWD	-ABD5	Abandoned -- Incomplete Application (Pre-examination)	
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Title: PANELIZED STRUCTURAL SYSTEM FOR **BUILDING CONSTRUCTION**

Abstract: Structural columns are fastened to one another vertically. Wall panels may be fastened to the structural columns so that load is transferred through the structural columns rather than vertically between the wall panels.

Classifications:

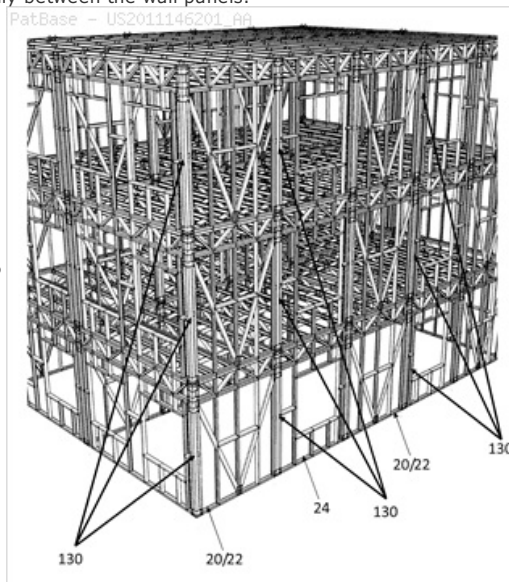
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International (IPC 1-7): E04B1/18

CPC: G06F17/5004 E04B1/185 G06F17/5086 E04C3/08 E04C3/32 E04B2/721 E04B2001/2472 E04B2001/405 E04C2003/0491 E04B1/1903 E04B1/24 E04B2001/2415 E04B2001/2448 E04B2001/2454 E04B2001/246 E04B2001/2496 G06F2217/02 E04B2/56 E04B1/21 E04B1/2403 E04B1/30 E04B1/5806 E04B2/7407 E04B2002/567 E04C2/44 E04C3/02 E04C3/30 E04B1/19 E04B2001/0053 E04B2001/2466 E04B2001/2481 E04B1/08 E04C3/40

European: E04B1/24 P04B1/24B4 P04B1/24B40 P04B1/24B42 P04B1/24B51 P04B1/24W

US: 1/1 52/262 52/270 52/634 52/634S 52/651.07 52/651.070S 52/655.1 52/690 52/693 52/694 52/745.05 52/745.050S 52/745.21 52/745.210S 52/792.1 52/792.100P 703/1 703/6



Family:

Publication number	Publication date	Application number	Application date
AP201206381 A0	20120831	AP20120006381	20101209
AU2010332083 A0	20110623	AU20100332083	20101209
AU2010332083 BB	20160512	AU20100332083	20101209
AU2013361500 AA	20140626	AU20130361500	20131218
AU2014237047 AA	20151105	AU20140237047	20140311
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CA2916816 AA	20150915	CA20142916816	20140311
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Priority:

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Probable Assignee: PATCO LLC

Assignee(s): (std): LASTOWSKI MICHAEL ; LASTOWSKI MICHAEL J ; PATCO INC ; PATCO LL ; PATCO LLC ; VANKER JOHN LOUIS ; PRESCIENTCO INC

Assignee(s): VANKER JOHN ; PATCO LLC ARVADA

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Designated states: PTE LTD; ERDEM KAYA; TOLGA CAYLAK; SCHIFF HARDIN LLP; HOLZERIPLAW PC; MARK J; BARNES AND THORNBURG LLP; HOLZER PATEL DRENNAN; JOIKE TREVOR B; PATEL CHIRAG AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2010332083 AA	20110623	LSPB	+	published / reissued	
AU2010332083 BB	20160512	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2010332083 BB	20160908	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2010332083 BB	20301209	PEXP		Calculated Patent Term Expiry	
AU2013361500 AA	20140626	LSPB	+	published / reissued	
AU2014237047 AA	20151105	LSPB	+	published / reissued	
AU2014237047 BB	20190228	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2014237047 BB	20340311	PEXP		Calculated Patent Term Expiry	
CA2783369 AA	20110623	LSPB	+	published / reissued	
CA2783369 AA	20160121	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20151207
CA2783369 C	20190115	LSGT	+	granted / extensions (spc, cpc, pte)	
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CA2895219 AA	20150612	LSPB	+	published / reissued	
CA2895219 AA	20180926	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20180919
CA2916816 AA	20150915	LSPB	+	published / reissued	
CA2916816 C	20190219	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2916816 C	20340311	PEXP		Calculated Patent Term Expiry	
CA3025907 AA	20110623	LSPB	+	published / reissued	
CA3025907 AA	20181205	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20181130
CL2012001599 A1	20131115	LSPB	+	published / reissued	
CL2015001665 A1	20160115	LSPB	+	published / reissued	
CL53602 B	20161216	LSGT	+	granted / extensions (spc, cpc, pte)	
CL53602 B	20161221	LSGT	+	granted / extensions (spc, cpc, pte)	
CL53602 B	20320614	PEXP		Calculated Patent Term Expiry	
CL53602 B	20320614	PEXP		Calculated Patent Term Expiry	
CN102713099 A	20121003	LSPB	+	published / reissued	
CN102713099 A	20121003	LSPB	+C06	PUBLICATION	
CN102713099 B	20150107	LSGT	+	granted / extensions (spc, cpc, pte)	
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CN105009125 B	20181116	LSGT	+	granted / extensions (spc, cpc, pte)	
CN105009125 B	20181116	LSGT	+GR01	PATENT GRANT	
CN105009125 B	20331218	PEXP		Calculated Patent Term Expiry	
CO6612256 A2	20130201	LSPB	+	published / reissued	
CO6612256 A2	20140228	LSGT	+FG	APPLICATION GRANTED	
CY1118469 T1	20170712	LSGT	+	granted / extensions (spc, cpc, pte)	
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DK2513384 T3	20161212	LSGT	+	granted / extensions (spc, cpc, pte)	
DK2513384 T3	20301209	PEXP		Calculated Patent Term Expiry	
EA201290526 A1	20130130	LSPB	+	published / reissued	
EP2513384 A1	20121024	LSPB	+	published / reissued	
EP2513384 A1	20121024	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20120718
EP2513384 A4	20150722	LSES	+RA4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED (CORRECTED)	EFFECTIVE DATE : 20150618
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EP2513384 B1	20160930	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP

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EP2513384 B1	20161103	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602010036661 COUNTRY OF REF DOCUMENT : DE
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EP2513384 B1	20161215	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 : 7
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EP2513384 B1	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LV PAYMENT DATE : 20161222 YEAR OF FEE PAYMENT : 7
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EP2513384 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20161208 YEAR OF FEE PAYMENT : 7
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EP2513384 B1	20170828	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E032062 COUNTRY OF REF DOCUMENT : HU
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EP2513384 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG PAYMENT DATE : 20171229 YEAR OF FEE PAYMENT : 8
EP2513384 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20180108 YEAR OF FEE PAYMENT : 8
EP2513384 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20171221 YEAR OF FEE PAYMENT : 8
EP2513384 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20180103 YEAR OF FEE PAYMENT : 8
EP2513384 B1	20180629	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MK PAYMENT DATE : 20171211 YEAR OF FEE PAYMENT : 8
EP2513384 B1	20180928	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MT PAYMENT DATE : 20171218 YEAR OF FEE PAYMENT : 8
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				NATIONAL OFFICE TO EPO]	FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160921
EP2513384 B1	20181115	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : UEP REF DOCUMENT NUMBER : 831184 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20160921
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20181221 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20181221 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO PAYMENT DATE : 20181129 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20181203 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20181217 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20181221 YEAR OF FEE PAYMENT : 9
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EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE PAYMENT DATE : 20181221 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IS PAYMENT DATE : 20181228 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC PAYMENT DATE : 20181226 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK PAYMENT DATE : 20181129 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20181203 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20181129 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20181221 YEAR OF FEE PAYMENT : 9

EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20181129 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20181221 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20181221 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20181220 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20181221 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HR PAYMENT DATE : 20181129 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20181217 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20181221 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LV PAYMENT DATE : 20181228 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20181218 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20181129 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG PAYMENT DATE : 20181228 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190329	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU PAYMENT DATE : 20181221 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20190103 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20190104 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NO PAYMENT DATE : 20181227 YEAR OF FEE PAYMENT : 9
EP2513384 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY PAYMENT DATE : 20181205 YEAR OF FEE PAYMENT : 9

EP2513384 B1	20301209	PEXP		Calculated Patent Term Expiry	
EP2936355 A1	20151028	LSPB	+	published / reissued	
EP2936355 A1	20151028	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20150702
EP2936355 A4	20160907	LSSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20160809
EP2936355 A4	20160907	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G06F 17/50 20060101AFI20160803BHEP
EP2936355 A4	20180620	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20180516
EP3165688 A1	20170510	LSPB	+	published / reissued	
EP3165688 A1	20171220	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20171110
ES2606559 T3	20170324	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2606559 T3	20301209	PEXP		Calculated Patent Term Expiry	
HK1176658 A1	20130802	LSPB	+	published / reissued	
HK1176658 A1	20151113	LSPB	+	published / reissued	
HK1176658 A1	20330327	PEXP		Calculated Patent Term Expiry	
HK1176658 A1	20330327	PEXP		Calculated Patent Term Expiry	
HK1176658 B	20151113	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1176658 B	20330327	PEXP		Calculated Patent Term Expiry	
HK1216790 A1	20161202	LSPB	+	published / reissued	
HK1216790 A1	20360427	PEXP		Calculated Patent Term Expiry	
HR20161561 T1	20161230	LSPB	+	published / reissued	
HU032062 T2	20170828	LSPB	+	published / reissued	
IL220227 A0	20150924	LSGT	+FF	PATENT GRANTED	
IL220227 A0	20151029	LSFE	+KB	PATENT RENEWED	
IL220227 A1	20150531	LSPB	+	published / reissued	
IL220227 A1	20150924	LSGT	+FF	PATENT GRANTED	
IL220227 A1	20151029	LSFE	+KB	PATENT RENEWED	
IL220227 A1	20161229	LSFE	+KB	PATENT RENEWED	
IL238673 A1	20180531	LSPB	+	published / reissued	
IL238673 A1	20180920	LSGT	+FF	PATENT GRANTED	
IN06238DN2012 A	20131220	LSPB	+	published / reissued	
JP2013514476 T2	20130425	LSPB	+	published / reissued	
JP2013514476 T2	20131204	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20131203
JP2013514476 T2	20141217	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20141216
JP2013514476 T2	20150515	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20150515
JP2013514476 T2	20151002	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2013514476 T2	20151007	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20151006

(UTILITY MODEL)					
JP2013514476 T2	20151105	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20151029
JP2013514476 T2	20151106	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 5833564 COUNTRY OF REF DOCUMENT : JP
JP2016509707 T2	20160331	LSPB	+	published / reissued	
JP2016509707 T2	20161101	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20161101
JP2016509707 T2	20171205	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20171205
JP2016509707 T2	20180305	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20180305
JP2016509707 T2	20180809	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2016509707 T2	20180814	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20180814
JP2016509707 T2	20180920	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20180912
JP2016509707 T2	20180921	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 6404231 COUNTRY OF REF DOCUMENT : JP
JP2019023881 A2	20190214	LSPB	+	published / reissued	
JP2019023881 A2	20181219	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20181204
JP5833564 B2	20151216	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5833564 B2	20151008	LSGT	+A01	特許査定書 Decision of patent grant	
JP5833564 B2	20151102	LSFE	R100	特許料納付書 Patent fee payment form	
JP5833564 B2	20151106	LSGT	+R150	特許証 Patent certificate	
JP5833564 B2	20181025	LSFE	R20	特許料納付書 Patent fee payment form	
JP5833564 B2	20181030	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5833564 B2	20301209	PEXP		Calculated Patent Term Expiry	
JP6404231 B2	20181010	LSGT	+	granted / extensions (spc, cpc, pte)	
JP6404231 B2	20331218	PEXP		Calculated Patent Term Expiry	
KR20120120233 A	20121101	LSPB	+	published / reissued	
KR20120120233 A	20151127	LSES	A201	REQUEST FOR EXAMINATION	
KR20120120233 A	20170119	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20120120233 A	20170320	LSRE	AMND	AMENDMENT	
KR20120120233 A	20170705	LSRV	-E601	DECISION TO REFUSE	

KR20120120233 A	20170901	LSRV	-E601	APPLICATION DECISION TO REFUSE APPLICATION	
KR20150121699 A	20151029	LSPB	+	published / reissued	
KR20150121699 A	20181120	LSES	A201	REQUEST FOR EXAMINATION	
KR20170119752 A	20171027	LSPB	+	published / reissued	
KR20170119752 A	20171117	LSES	A201	REQUEST FOR EXAMINATION	
KR20170119752 A	20180206	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20170119752 A	20180901	LSRV	-E601	DECISION TO REFUSE APPLICATION	
LT2513384 T	20170110	LSGT	+	granted / extensions (spc, cpc, pte)	
LT2513384 T	20301209	PEXP		Calculated Patent Term Expiry	
MK7078 T1	20170630	LSPB	+	published / reissued	
MX2012006896 A1	20120928	LSPB	+	published / reissued	
MX2012006896 A1	20141211	LSGT	+FG	GRANT OR REGISTRATION	
MX2015007541 A1	20151014	LSPB	+	published / reissued	
MX2015007541 A1	20161202	LSGT	+FG	GRANT OR REGISTRATION	
MX344044 B	20161202	LSGT	+	granted / extensions (spc, cpc, pte)	
MX344044 B	20331218	PEXP		Calculated Patent Term Expiry	
MY166367 A	20180625	LSGT	+	granted / extensions (spc, cpc, pte)	
MY166367 A	20301209	PEXP		Calculated Patent Term Expiry	
NZ601123 A	20140725	LSPB	+	published / reissued	
NZ601123 A	20141031	LSGT	+PSEA	PATENT SEALED	
NZ601123 A	20141128	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 09 DEC 2015 BY CPA GLOBAL EFFECTIVE DATE : 20141127
NZ601123 A	20151224	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 09 DEC 2016 BY CPA GLOBAL EFFECTIVE DATE : 20151128
NZ601123 A	20161223	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 09 DEC 2017 BY CPA GLOBAL EFFECTIVE DATE : 20161205
NZ601123 A	20171124	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 09 DEC 2018 BY SPRUSON + FERGUSON EFFECTIVE DATE : 20171117
NZ627281 A	20160429	LSPB	+	published / reissued	
NZ627281 A	20160826	LSGT	+PSEA	PATENT SEALED	
NZ627281 A	20160930	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 09 DEC 2017 BY SPRUSON + FERGUSON EFFECTIVE DATE : 20160829
NZ627281 A	20171124	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 09 DEC 2018 BY SPRUSON + FERGUSON EFFECTIVE DATE : 20171117
PL2513384 T3	20170831	LSGT	+	granted / extensions (spc, cpc, pte)	

PT2513384 T	20161202	LSGT	+	granted / extensions (spc, cpc, pte)	
PT2513384 T	20301209	PEXP		Calculated Patent Term Expiry	
SG10201702003U A1	20170530	LSPB	+	published / reissued	
SG11201504663T A1	20150730	LSPB	+	published / reissued	
SG181756 A1	20120730	LSPB	+	published / reissued	
TH129275 A	20131114	LSPB	+	published / reissued	
TR201507461 B	20170123	LSGT	+	granted / extensions (spc, cpc, pte)	
TR201507461 B	20331218	PEXP		Calculated Patent Term Expiry	
TR201507461 T1	20160222	LSPB	+	published / reissued	
TR201616961 T4	20161221	LSGT	+	granted / extensions (spc, cpc, pte)	
TR201616961 T4	20301209	PEXP		Calculated Patent Term Expiry	
US10233643 BB	20190319	LSGT	+	granted / extensions (spc, cpc, pte)	
US10233643 BB	20190227	LSGT	PAT1	Patented Case	
US10233643 BB	20370522	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US2011146201 AA	20110623	LSPB	+	published / reissued	
US2013185026 AA	20130718	LSPB	+	published / reissued	
US2013211795 AA	20130815	LSPB	+	published / reissued	
US2014000208 AA	20140102	LSPB	+	published / reissued	
US2014000208 AA	20140303	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO, LLC, WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL J.; REEL/FRAME:032339/0001 EFFECTIVE DATE : 20100611
US2014207423 AA	20140724	LSPB	+	published / reissued	
US2015068152 AA	20150312	LSPB	+	published / reissued	
US2015068152 AA	20151204	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO, LLC, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL J.; REEL/FRAME:037217/0136 EFFECTIVE DATE : 20151009
US2015068152 AA	20170511	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US2015220664 AA	20150806	LSPB	+	published / reissued	
US2015220664 AA	20150422	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO, LLC, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL J.; REEL/FRAME:035472/0404 EFFECTIVE DATE : 20150422
US2015317416 AA	20151105	LSPB	+	published / reissued	
US2015317416 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO, LLC, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL J.; REEL/FRAME:036086/0669 EFFECTIVE DATE : 20131220

US2016364504 AA	20161215	LSPB	+	published / reissued	
US2016364504 AA	20161208	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO LLC, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL J.; SIGNING DATES FROM 20161005 TO 20161207; REEL/FRAME:040605/0499
US2017098015 AA	20170406	LSPB	+	published / reissued	
US2017098015 AA	20161209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO LLC, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL J.; SIGNING DATES FROM 20161005 TO 20161207; REEL/FRAME:040700/0304
US2017275880 AA	20170928	LSPB	+	published / reissued	
US2017275880 AA	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO, LLC, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL J.; REEL/FRAME:042458/0492 EFFECTIVE DATE : 20151009
US2017275880 AA	20170718	LSSES	NFA1	Non Final Action Mailed	
US2017275880 AA	20180216	LSSES	NFA1	Non Final Action Mailed	
US2017275880 AA	20190104	LSFE	+PPR1	Publications -- Issue Fee Payment Received	
US2017275880 AA	20190213	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US8528294 BB	20130910	LSGT	+	granted / extensions (spc, cpc, pte)	
US8528294 BB	20101209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO, LLC, WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN L.; LASTOWSKI, MICHAEL J.; REEL/FRAME:025484/0919 EFFECTIVE DATE : 20100611
US8528294 BB	20130821	LSGT	PAT1	Patented Case	
US8528294 BB	20170309	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8528294 BB	20310803	PEXP		Calculated Patent Term Expiry (PTA 237 days)	
US8688411 BB	20140401	LSGT	+	granted / extensions (spc, cpc, pte)	
US8688411 BB	20131220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO, LLC, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL J; REEL/FRAME:031832/0289 EFFECTIVE DATE : 20131220
US8688411 BB	20140312	LSGT	PAT1	Patented Case	
US8688411 BB	20170914	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8688411 BB	20321219	PEXP		Calculated Patent Term Expiry	
US8887472 BB	20141118	LSGT	+	granted / extensions (spc, cpc, pte)	
US8887472 BB	20141029	LSGT	PAT1	Patented Case	

US8887472 BB	20180402	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8887472 BB	20330830	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US9009011 BB	20150414	LSGT	+	granted / extensions (spc, cpc, pte)	
US9009011 BB	20130802	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO, INC., COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL; SIGNING DATES FROM 20130530 TO 20130724; REEL/FRAME:030931/0845
US9009011 BB	20150325	LSGT	PAT1	Patented Case	
US9009011 BB	20151204	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO, LLC, COLORADO OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNEE NAME PREVIOUSLY RECORDED AT REEL: 030931 FRAME: 0845. ASSIGNOR(S) HEREBY CONFIRMS THE ASSIGNMENT; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL J.; REEL/FRAME:037312/0140 EFFECTIVE DATE : 20151009
US9009011 BB	20180918	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US9009011 BB	20330315	PEXP		Calculated Patent Term Expiry	
US9081916 BB	20150714	LSGT	+	granted / extensions (spc, cpc, pte)	
US9081916 BB	20140326	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PATCO, LLC, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VANKER, JOHN LOUIS; LASTOWSKI, MICHAEL J.; REEL/FRAME:032534/0668 EFFECTIVE DATE : 20131220
US9081916 BB	20150624	LSGT	PAT1	Patented Case	
US9081916 BB	20190114	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US9081916 BB	20340326	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US9424374 BB	20160823	LSGT	+	granted / extensions (spc, cpc, pte)	
US9424374 BB	20151201	LSES	NFA1	Non Final Action Mailed	
US9424374 BB	20160803	LSGT	PAT1	Patented Case	
US9424374 BB	20350413	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US9424375 BB	20160823	LSGT	+	granted / extensions (spc, cpc, pte)	
US9424375 BB	20151125	LSES	NFA1	Non Final Action Mailed	
US9424375 BB	20160803	LSGT	PAT1	Patented Case	
US9424375 BB	20350714	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US9677272 BB	20170613	LSGT	+	granted / extensions (spc, cpc, pte)	
US9677272 BB	20170524	LSGT	PAT1	Patented Case	

US9677272 BB	20341118	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
VN17421 A1	20171025	LSPB	+	published / reissued	
WO11075394 A1	20110623	LSPB	+	published / reissued	
WO11075394 A1	20101209	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 201080061886.0 COUNTRY OF REF DOCUMENT : CN
WO11075394 A1	20120607	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2783369 COUNTRY OF REF DOCUMENT : CA
WO11075394 A1	20120607	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 220227 COUNTRY OF REF DOCUMENT : IL
WO11075394 A1	20120614	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2012/006896 COUNTRY OF REF DOCUMENT : MX
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WO11075394 A1	20120615	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2012544648 COUNTRY OF REF DOCUMENT : JP
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WO11075394 A1	20120618	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2012/07045 COUNTRY OF REF DOCUMENT : TR
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WO11075394 A1	20120718	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010838150 COUNTRY OF REF DOCUMENT : EP
WO11075394 A1	20120718	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12120766 COUNTRY OF REF DOCUMENT : CO
WO11075394 A1	20120802	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2010332083 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20101209

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WO11075394 A1	20150507	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 238673 COUNTRY OF REF DOCUMENT : IL
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WO11075394 A1	20180807	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 112012014852 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20120618
WO14100243 A1	20140626	LSPB	+	published / reissued	
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WO14100243 A1	20150612	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2015/007541 COUNTRY OF REF DOCUMENT : MX
WO14100243 A1	20150617	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2015/07461 COUNTRY OF REF DOCUMENT : TR
WO14100243 A1	20150618	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2015549648 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
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WO14100243 A1	20150716	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20157019257 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO14150591 A1	20140925	LSPB	+	published / reissued	
WO14150591 A1	20150915	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2916816 COUNTRY OF REF DOCUMENT : CA
WO14150591 A1	20150915	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

WO14150591 A1	20151105	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2014237047 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20140311 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO14150591 A1	20160406	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 14769400 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
ZA201205325 A	20130424	LSGT	+	granted / extensions (spc, cpc, pte)	
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Title: **CONNECTOR** MEANS FOR ROOF PANELS AND A METHOD FOR INSTALLATION THEREOF

Abstract: **Connector** means embodying the concepts of the present invention are adapted to secure one or more roof panel members to a **modular building** structure. Broadly, such a **connector** means has a horizontally disposed base portion that is adapted to engage a supporting member incorporated in, and presented from, the **modular building**. An inclined, plate portion is supported from the base portion. The plate portion is adapted to receive, and support, the roof panel. A locking member frictionally secures each roof panel to one or more inclined plate portions.

Classifications:

International (IPC 8-9): E04B1/02 E04B1/08 E04B1/12 E04B7/02

E04B7/04 (Advanced/Invention);

E04B1/02 E04B1/12 (Advanced/Non-invention)

International (IPC 1-7): E04B1/02 E04B1/08 E04B1/12 E04B1/38

E04B1/58 E04B2/00 E04B7/00 E04B7/02 E04B7/04 E04C3/00 E04C3/02

E04D3/36 F16B5/00

CPC: E04B1/12 E04B7/02 E04B7/04

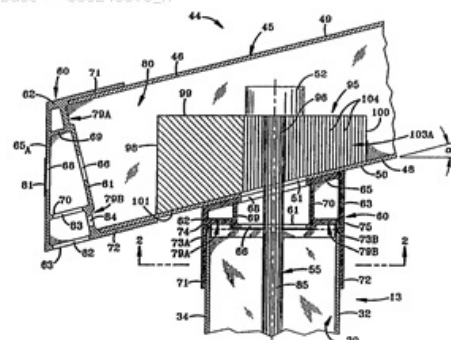
European: E04B1/12 E04B7/02 E04B7/04

US: 52/198 52/220.1 52/262 52/271 52/283 52/284 52/300 52/43 52/54

52/699 52/745.13 52/746.11 52/748.1 52/766 52/79.9 52/90.1 52/92.1

52/92.2 52/93.1 52/95

PatBase - US5245803_A



Family:

Publication number	Publication date	Application number	Application date
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AU663129 B2	19950928	AU19920029154	19921113
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Priority:

US19910792356 19911114

US19920875097 19920428

US19920893532 19920604

WO1992CA00492 19921113

Probable Assignee: ROYAL BUILDING SYSTEMS CDN LTD

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Assignee(s): ROYAL BUILDING SYSTEMS CND LIMITED ; ROYAL BUILDING SYSTEMS CDN LTD WOODBRIDGE ONTARIO CA ; ROYAL BUILDING SYSTEMS CDN LIMITED ; ROYAL BUILDING SYSTEM CND LIMITED ; ROYAL BUILDING SYSTEMS (CDN) LTD ; ROYAL BUILDING SYSTEMS CND LTD ; ROYAL BUILDING SYSTEM LTD ;

ROYAL BUILDING SYSTEMS CDN LTD ; ROYAL BUILDING SYSTEMS CDN LTD WOODBRIDGE ONTARI ;
 ROYAL BILDING SISTEMZ SI DI EN LIMITED ; ROYAL BILDING SISTEMZ SI DI EN LTD ; ROJAL BILDING
 SISTEMZ (SI-DI-EHN) LIMITED

Inventor(s): (std): HAAG E KEITH ; HAAG KEITH E ; KEJT E KHAAG ; KEITH HAAG E ; HAAG E

Inventor(s): E KEITH HAAG ; KEITH E HAAG ; KEJT EH.KHAAG[US]

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD;
 DENNISON ASSOCIATES

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LI LK
 LU MC MG ML MN MR MW NE NL NO PL RO RU SD SE SN TD TG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT162576 E	19980215	LSGT	+	granted / extensions (spc, cpc, pte)	
AT162576 E	20121113	PEXP		Calculated Patent Term Expiry	
AU199229154 A1	19930615	LSPB	+	published / reissued	
AU663129 B2	19950928	LSGT	+	granted / extensions (spc, cpc, pte)	
AU663129 B2	20010621	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU663129 B2	20121113	PEXP		Calculated Patent Term Expiry	
BRPI9206751 A	19950103	LSPB	+	published / reissued	
BRPI9206751 A	19991207	LSGT	+FF	DECISION: INTENTION TO GRANT	
BRPI9206751 A	20000516	LSGT	+FG9A	PATENT OR CERTIFICATE OF ADDITION GRANTED	
BRPI9206751 A	20090818	LSFE	B24C	PATENT ANNUAL FEE: REQUEST FOR FOR RESTORATION	TEXT : REFERENTE DA 9A A 17A ANUIDADES.
BRPI9206751 A	20110816	LSLE	-B21F	LAPSE ACC. ART. 78, ITEM IV - ON NON-PAYMENT OF THE ANNUAL FEES IN TIME	TEXT : REFERENTE AO DESPACHO PUBLICADO NA RPI 2015 DE 18/08/2009 E A 18A E 19A ANUIDADES.
CA2123713 AA	19940516	LSPB	+	published / reissued	
CA2123713 AA	19950116	LSES	+EEER	EXAMINATION REQUEST	
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CZ285577 B6	19990915	LSGT	+	granted / extensions (spc, cpc, pte)	
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CZ285577 B6	20121113	PEXP		Calculated Patent Term Expiry	
CZ9401176 A3	19940817	LSPB	+	published / reissued	
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DE69224208 D1	20011206	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69224208 T2	19980507	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69224208 T2	20121113	PEXP		Calculated Patent Term Expiry	
DK0613512 T3	19980504	LSGT	+	granted / extensions (spc, cpc, pte)	
DK0613512 T3	20121113	PEXP		Calculated Patent Term Expiry	
EP0613512 A1	19940907	LSPB	+	published / reissued	

EP0613512 A1	19940907	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19940531
EP0613512 A1	19960424	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19960311
EP0613512 A1	19960918	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : ROYAL BUILDING SYSTEMS (CDN) LIMITED
EP0613512 B1	19980121	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0613512 B1	19980130	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
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EP0613512 B1	19980929	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 19980929 YEAR OF FEE PAYMENT : 7
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EP0613512 B1	19991130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 19991130
EP0613512 B1	19991130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 19991130
EP0613512 B1	20000531	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : ROYAL BUILDING SYSTEMS (CDN) LTD EFFECTIVE DATE : 19991130

EP0613512 B1	20000531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20000531
EP0613512 B1	20000601	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20000601
EP0613512 B1	20000714	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0613512 B1	20000717	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	REF COUNTRY CODE : EP TEXT : 92923278.3
EP0613512 B1	20000801	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20000601
EP0613512 B1	20000807	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP
EP0613512 B1	20000920	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP0613512 B1	20001113	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20001113
EP0613512 B1	20001114	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20001114
EP0613512 B1	20010704	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20001113
EP0613512 B1	20010731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20010731
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EP0613512 B1	20010907	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0613512 B1	20040416	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20011214
EP0613512 B1	20051113	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20051113
EP0613512 B1	20121113	PEXP		Calculated Patent Term Expiry	
ES2112917 T3	19980416	LSGT	+	granted / extensions (spc, cpc, pte)	

ES2112917 T3	19980416	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 613512 COUNTRY OF REF DOCUMENT : ES
ES2112917 T3	20121113	PEXP		Calculated Patent Term Expiry	
FI942258 A	19940513	LSPB	+	published / reissued	
GR3026641 T3	19980731	LSGT	+	granted / extensions (spc, cpc, pte)	
GR3026641 T3	20180414	PEXP		Calculated Patent Term Expiry	
HU217384 B	20000128	LSGT	+	granted / extensions (spc, cpc, pte)	
HU217384 B	20010828	LSLE	-HMM4	CANCELLATION OF FINAL PROT. DUE TO NON-PAYMENT OF FEE	
HU217384 B	20121113	PEXP		Calculated Patent Term Expiry	
HU71181 A2	19951128	LSPB	+	published / reissued	
JP7502087 T2	19950302	LSPB	+	published / reissued	
KR100234841 B1	19991215	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100234841 B1	20141215	PEXP		Calculated Patent Term Expiry	
KR19940703483 A	19941026	LSPB	+	published / reissued	
KR19947003483 A	19941026	LSPB	+	published / reissued	
MX9206564 A1	19930701	LSPB	+	published / reissued	
MX9206564 A1	19960122	LSGT	+FG	GRANT OR REGISTRATION	
MX9206564 A1	20140829	LSLE	-MM	ANNULMENT OR LAPSE DUE TO NON-PAYMENT OF FEES	
NO300182 B1	19970421	LSGT	+	granted / extensions (spc, cpc, pte)	
NO300182 B1	20140511	PEXP		Calculated Patent Term Expiry	
NO941778 A	19940511	LSPB	+	published / reissued	
OA10214 A	19971007	LSGT	+	granted / extensions (spc, cpc, pte)	
OA10214 A	20140511	PEXP		Calculated Patent Term Expiry	
RU2100538 C1	19971227	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2100538 C1	20140510	PEXP		Calculated Patent Term Expiry	
SK56494 A3	19941109	LSPB	+	published / reissued	
US5245803 A	19930921	LSGT	+	granted / extensions (spc, cpc, pte)	
US5245803 A	19950530	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BUILDING SYSTEMS (CDN) LIMITED, CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAAG, E. KEITH; REEL/FRAME:007666/0051 EFFECTIVE DATE : 19950508
US5245803 A	19970305	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5245803 A	20010301	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5245803 A	20050921	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5245803 A	20051019	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5245803 A	20051019	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF

US5245803 A	20051115	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	MAINTENANCE FEES UNDER 37 CFR 1.362 EFFECTIVE DATE : 20050921
US5245803 A	20111114	PEXP		Calculated Patent Term Expiry	
US5274974 A	19940104	LSGT	+	granted / extensions (spc, cpc, pte)	
US5274974 A	19950530	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BUILDING SYSTEMS (CDN) LIMITED, CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAAG, E. KEITH; REEL/FRA:007666/0051 EFFECTIVE DATE : 19950508
US5274974 A	19970620	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5274974 A	20020104	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5274974 A	20020213	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5274974 A	20020213	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5274974 A	20020312	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20020104
US5274974 A	20120428	PEXP		Calculated Patent Term Expiry	
US5277002 A	19940111	LSGT	+	granted / extensions (spc, cpc, pte)	
US5277002 A	19931229	LSGT	PAT1	Patented Case	
US5277002 A	19950530	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BUILDING SYSTEMS (CDN) LIMITED, CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAAG, E. KEITH; REEL/FRA:007666/0051 EFFECTIVE DATE : 19950508
US5277002 A	19980111	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5277002 A	19980324	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19980114
US5277002 A	20180126	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5277002 A	20180126	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5277002 A	20120604	PEXP		Calculated Patent Term Expiry	
WO9310315 A1	19930527	LSPB	+	published / reissued	
WO9310315 A1	19940509	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1992923278 COUNTRY OF REF DOCUMENT : EP
WO9310315 A1	19940512	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 94-00782 COUNTRY OF REF DOCUMENT : RO
WO9310315 A1	19940513	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 56494

WO9310315 A1	19940513	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	COUNTRY OF REF DOCUMENT : SK REF DOCUMENT NUMBER : PV1994-1176 COUNTRY OF REF DOCUMENT : CZ
WO9310315 A1	19940513	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 942258 COUNTRY OF REF DOCUMENT : FI
WO9310315 A1	19940516	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2123713 COUNTRY OF REF DOCUMENT : CA
WO9310315 A1	19940817	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : PV1994-1176 COUNTRY OF REF DOCUMENT : CZ
WO9310315 A1	19940901	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9310315 A1	19940907	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1992923278 COUNTRY OF REF DOCUMENT : EP
WO9310315 A1	19980121	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1992923278 COUNTRY OF REF DOCUMENT : EP
WO9310315 A1	19990915	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : PV1994-1176 COUNTRY OF REF DOCUMENT : CZ

Title: MODULAR BUILDING FRAME

Abstract: A building frame resistant to earthquakes, gale-force wind loads, fire, insects and rot includes a peripheral frame wall constructed of rectangular steel tubing. Side wall frame modules bolted together along adjacent edges, and end wall modules bolted together along adjacent edges and to the ends of the connected side wall modules form the peripheral frame wall. Diagonal bracing is built into selected side and end wall modules as required for the desired degree of wind resistance. Trusses made of various size tube such as 2x3 inch rectangular steel tubing for supporting a roof, including a hip roof, on the peripheral wall, are assembled and welded in a welding shop and the prefabricated trusses and wall modules are trucked to the building site. Multiple stories may be erected and fastened together by anchor brackets arranged bottom-to-bottom above and below the second and higher floors. The building frame is secured to a foundation by attaching the anchor brackets to anchor bolts set in the foundation.

Classifications:

International (IPC 8-9): E04B1/24 E04C2/38 E04C3/04 E04H1/00 E04H1/04 (Advanced/Invention);

E04B1/24 E04C2/38 E04C3/04 E04H1/04 (Core/Invention)

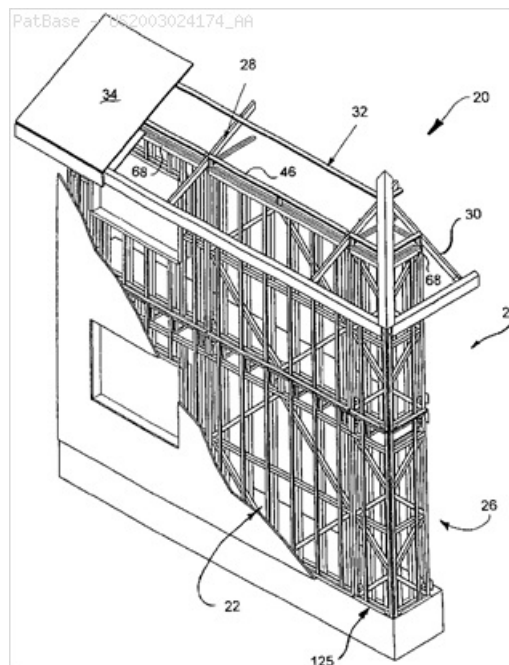
International (IPC 1-7): E04B0/00 E04B0/00 E04H1/00 E04H1/04 E04H3/00 E04H5/00 E04H6/00

CPC: E04B1/08 E04C2/384 E04B1/24 E04B2001/2415 E04B2001/2439 E04B2001/2451 E04B2001/249 E04B2001/2496

European: E04B1/24 E04C2/38C P04B1/24B20 P04B1/24B4

P04B1/24B41 P04B1/24B42 P04B1/24E P04B1/24R P04B1/24W

US: 52/234 52/236.3 52/236.7 52/236.9 52/293.3 52/638 52/656.9 52/712 52/79.1 52/79.100P 52/90.1 52/901 52/91.2 52/912 52/92.1 52/92.3

**Family:**

Publication number	Publication date	Application number	Application date
AU200129147 A1	20010703	AU20010029147	20001228
AU200129147 A5	20010703	AU20010029147	20001228
CA2395279 AA	20020620	CA20002395279	20001221
CA2395279 C	20060808	CA20002395279	20001221
MXPA02006275 A1	20030925	MX2002PA06275	20001221
US2003024174 AA	20030206	US20020267112	20021007
US6460297 BA	20021008	US19990468981	19991221
US7992352 BB	20110809	US20020267112	20021007
WO0146531 A2	20010628	WO2000US35500	20001221
WO0146531 A3	20011115	WO2000US35500	20001221

Priority:

US19990468981 19991221 WO2000US35500 20001221 WO2000US35500 20001228
US20020267112 20021007

Probable Assignee: ALLIED TUBE AND CONDUIT CORP**Assignee(s):** (std): INTER STEEL STRUCTURES INC ; BONDS DELTON J ; BRAMWELL ERIC P**Assignee(s):** ISSI HOLDING CO ; UBS STAMFORD BRANCH AG ; WHITE FROG EAGLE NEST HOME PM LLC ; ISSI HOLDING CO LLC ; DEUTSCHE BANK NEW YORK BRANCH AG ; FLEXHEAD IND INC ; UNISTRUT INT CORP ; WILMINGTON TRUST FSB ; WHITE FROG EAGLE NEST HOUSE ; WPFY INC ; AFC CABLE SYSTEMS INC ; ALLIED TUBE AND CONDUIT CORP ; AMERICAN PIPE AND PLASTICS INC ; ATKORE INT INC ; ATKORE STEEL COMPONENTS INC**Inventor(s):** (std): BONDS DELTON J ; BRAMWELL ERIC P**Inventor(s):** ERIC P BRAMWELL ; DELTON J BONDS**Agent(s):** BORDEN LADNER GERVAIS LLP ; J MICHAEL**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 GN 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)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
AU200129147 A1	20010703	LSPB	+	published / reissued	
AU200129147 A5	20020829	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
CA2395279 AA	20020620	LSPB	+	published / reissued	
CA2395279 AA	20020620	LSSE	+EEER	EXAMINATION REQUEST	
CA2395279 C	20060808	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2395279 C	20130202	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20121221
CA2395279 C	20201221	PEXP		Calculated Patent Term Expiry	
MXPA02006275 A1	20030925	LSPB	+	published / reissued	
MXPA02006275 A1	20070627	LSGT	+FG	GRANT OR REGISTRATION	
US2003024174 AA	20030206	LSPB	+	published / reissued	
US2003024174 AA	20030826	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLIED TUBE & CONDUIT CORP., ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:INTER-STEEL STRUCTURES, INC.; REEL/FRAME:013913/0083 EFFECTIVE DATE : 20030801
US2003024174 AA	20090126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ISSI HOLDING COMPANY, LLC, WASHINGTON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:INTER-STEEL STRUCTURES, INC.; REEL/FRAME:022162/0818 EFFECTIVE DATE : 20080620
US2003024174 AA	20101223	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UBS AG STAMFORD BRANCH, CONNECTICUT OLDPARTY : ABL NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS; ASSIGNOR:ALLIED TUBE & CONDUIT CORPORATION; REEL/FRAME:025562/0221 EFFECTIVE DATE : 20101222
US2003024174 AA	20101229	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WILMINGTON TRUST FSB, CONNECTICUT OLDPARTY : NOTE NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS; ASSIGNOR:ALLIED TUBE & CONDUIT CORPORATION; REEL/FRAME:025571/0387 EFFECTIVE DATE : 20101222
US2003024174 AA	20110720	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6460297 BA	20021008	LSGT	+	granted / extensions (spc, cpc, pte)	
US6460297 BA	19991221	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INTER-STEEL STRUCTURES, INC., WASHINGTON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BONDS, DELTON J.; BRAMWELL, ERIC P.; REEL/FRAME:010475/0035 EFFECTIVE DATE : 19991220

US6460297 BA	20020919	LSGT	PAT1	Patented Case	
US6460297 BA	20020919	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6460297 BA	20030826	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLIED TUBE & CONDUIT CORP., ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:INTER-STEEL STRUCTURES, INC.; REEL/FRAME:013913/0083 EFFECTIVE DATE : 20030801
US6460297 BA	20061005	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6460297 BA	20090126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ISSI HOLDING COMPANY, LLC, WASHINGTON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:INTER-STEEL STRUCTURES, INC.; REEL/FRAME:022162/0818 EFFECTIVE DATE : 20080620
US6460297 BA	20100408	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6460297 BA	20101001	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WHITE FROG EAGLE NEST HOUSE, ARIZONA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ISSI HOLDING COMPANY, LLC; BONDS, DELTON J.; REEL/FRAME:025077/0970 EFFECTIVE DATE : 20100113
US6460297 BA	20101105	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WHITE FROG EAGLE NEST HOME PM, LLC, ARIZONA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BONDS, DELTON J; REEL/FRAME:025325/0298 EFFECTIVE DATE : 20101104
US6460297 BA	20101223	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UBS AG STAMFORD BRANCH, CONNECTICUT OLDPARTY : ABL NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS; ASSIGNOR:ALLIED TUBE & CONDUIT CORPORATION; REEL/FRAME:025562/0221 EFFECTIVE DATE : 20101222
US6460297 BA	20101229	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WILMINGTON TRUST FSB, CONNECTICUT OLDPARTY : NOTE NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS; ASSIGNOR:ALLIED TUBE & CONDUIT CORPORATION; REEL/FRAME:025571/0387 EFFECTIVE DATE : 20101222
US6460297 BA	20140408	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6460297 BA	20140409	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLIED TUBE & CONDUIT CORPORATION, ILLINOIS OLDPARTY : TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENTS; ASSIGNOR:WILMINGTON TRUST, NATIONAL ASSOCIATION, SUCCESSOR IN INTEREST TO WILMINGTON TRUST FSB; REEL/FRAME:032644/0054 EFFECTIVE DATE : 20140409
US6460297 BA	20140415	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG, NEW YORK BRANCH, NEW YORK OLDPARTY : NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS (FIRST LIEN); ASSIGNOR:ALLIED TUBE & CONDUIT CORPORATION; REEL/FRAME:032688/0542

					EFFECTIVE DATE : 20140409
US6460297 BA	20140415	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG, NEW YORK BRANCH, NEW YORK OLDPARTY : NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS (SECOND LIEN); ASSIGNOR:ALLIED TUBE & CONDUIT CORPORATION; REEL/FRAME:032689/0253 EFFECTIVE DATE : 20140409
US6460297 BA	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNISTRUT INTERNATIONAL CORPORATION, MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US6460297 BA	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ATKORE STEEL COMPONENTS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US6460297 BA	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FLEXHEAD INDUSTRIES INC., MASSACHUSETTS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US6460297 BA	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WPFY, INC., MASSACHUSETTS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US6460297 BA	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLIED TUBE & CONDUIT CORPORATION, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US6460297 BA	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AFC CABLE SYSTEMS, INC., MASSACHUSETTS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US6460297 BA	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ATKORE INTERNATIONAL, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US6460297 BA	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN PIPE & PLASTICS, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US6460297 BA	20191221	PEXP		Calculated Patent Term Expiry	
US7992352 BB	20110809	LSGT	+	granted / extensions (spc, cpc, pte)	
US7992352 BB	20110720	LSGT	PAT1	Patented Case	

US7992352 BB	20140409	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLIED TUBE & CONDUIT CORPORATION, ILLINOIS OLDPARTY : TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENTS; ASSIGNOR:WILMINGTON TRUST, NATIONAL ASSOCIATION, SUCCESSOR IN INTEREST TO WILMINGTON TRUST FSB; REEL/FRAME:032644/0054 EFFECTIVE DATE : 20140409
US7992352 BB	20140415	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG, NEW YORK BRANCH, NEW YORK OLDPARTY : NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS (SECOND LIEN); ASSIGNOR:ALLIED TUBE & CONDUIT CORPORATION; REEL/FRAME:032689/0253 EFFECTIVE DATE : 20140409
US7992352 BB	20140415	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG, NEW YORK BRANCH, NEW YORK OLDPARTY : NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS (FIRST LIEN); ASSIGNOR:ALLIED TUBE & CONDUIT CORPORATION; REEL/FRAME:032688/0542 EFFECTIVE DATE : 20140409
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US7992352 BB	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ATKORE STEEL COMPONENTS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US7992352 BB	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN PIPE & PLASTICS, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US7992352 BB	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNISTRUT INTERNATIONAL CORPORATION, MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US7992352 BB	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AFC CABLE SYSTEMS, INC., MASSACHUSETTS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US7992352 BB	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLIED TUBE & CONDUIT CORPORATION, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222
US7992352 BB	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ATKORE INTERNATIONAL, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222

US7992352 BB	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FLEXHEAD INDUSTRIES INC., MASSACHUSETTS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222	
US7992352 BB	20161222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WPFY, INC., MASSACHUSETTS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:041178/0655 EFFECTIVE DATE : 20161222	
US7992352 BB	20190211	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US7992352 BB	20270817	PEXP		Calculated Patent Term Expiry (PTA 1775 days)		
WO0146531 A2	20010628	LSPB	+	published / reissued		
WO0146531 A3	20020620	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2395279 COUNTRY OF REF DOCUMENT : CA	
WO0146531 A3	20020620	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2002/006275 COUNTRY OF REF DOCUMENT : MX	
WO0146531 A3	20021128	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642	
WO0146531 A3	20030226	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO	
WO0146531 A3	20040927	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP	

Title: PANTOGRAPH MACHINE EQUIPPED WITH BLADES AND HOT-CUTTING PRE-SHAPED PUNCHES AND CUTTERS FOR PROCESSING PANELS, IN PARTICULAR ICF PANELS, WITH EXPANDED OR FOAMED MATERIALS IN GENERAL

Abstract: A pantograph machine (1) is described, equipped with cutting blades -hot punches pre-shaped, and drills, for machining panels, in particular slabs and panels ICF, with foamed materials or extruded in general, comprising at least a first station (1) consisting of at least a castle (1'), supported by a base (2) which houses a supporting surface (3), the castle (1') comprising: at least one frame (5) carrying punches-cutting blades (6) connected operatively to a frame-carrier carriage (9) sliding on guides, and moved by means of a transmission; at least two slides (23) for milling, performed by a tool (24) mounted on an electro-spindle (25), placed on a carriage (14); at least one frame (15) carrying wires (16) provided with wires (16) fixed or movable, operatively connected to a frame-carrier carriage (19) sliding on guides (10) and moved by means of a transmission, said wires (16) being adapted to move in interpolation according to the vertical and horizontal directions so as to perform an inclined cut without limitation of gradation and/or according to a specific curvilinear profile for the production of any type of artifact without limitations.

Classifications:

International (IPC 8-9): B23C3/00 B26D1/04 B26D3/00 B26D7/10 B26D9/00 B26F3/00 B26F3/12 B65D3/00 E04B2/86 (Advanced/Invention)

CPC: E04B2/86 B26D3/006 B23C3/00 B26D1/04 B26F3/12

European: B26D3/00D L26D1/04 L26F3/12

PatBase - WO13084253_A2

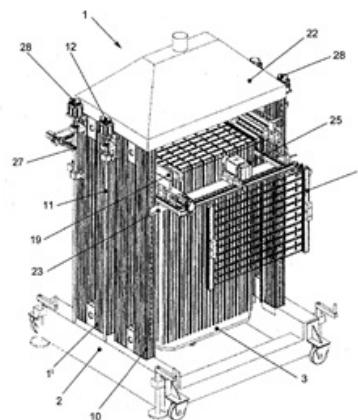


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
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AU2012348494 BB	20170720	AU20120348494	20121207
BR112014013950 A2	20170613	BR20141113950	20121207
BR112014013950 A8	20170613	BR20141113950	20121207
BR112014013950 A8	20170620	BR20141113950	20121207
CL2014001516 A1	20150504	CL20140001516	20140609
CO7101202 A2	20141031	CO20140148009	20140709
ID201600451 A	20160212	ID2014P0004188	20121207
IN01388MN2014 A	20150327	IN2014MN01388	20140709
ITTO20111129 A1	20120309	IT2011TO01129	20111209
JP2015505739 T2	20150226	JP20140545454T	20121207
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PE20542014 A1	20150109	PE20140000928	20121207
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RU2018127741 A3	20190326	RU20180127741	20121207
WO13084253 A2	20130613	WO2012IT00371	20121207
WO13084253 A3	20130801	WO2012IT00371	20121207

Priority:

IT2011TO01129 20111209 NZ20120627240 20121207 WO2012IT00371 20121207
 RU20180127741 20121207 RU20180127741 20122007

Probable Assignee: KABONI MIKELE

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Inventor(s): (std): MICHELE CABONI ; CABONI MICHELE

Inventor(s): KABONI MIKELE

Agent(s): PIPERS; PIPERS PATENT ATTORNEYS; CHOUDHARY ASHUTOSH; CABONI MICHELE DR; IGNACIO MARTINEZ CORNEJO Y OTROS; LUZ CLEMENCIA DE PAEZ; PARDOMUAN OLOAN LUBIS; DLYA NOSOVOJ IA; GARAVELLI PAOLO

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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2012348494 AA	20130613	LSPB	+	published / reissued	
AU2012348494 BB	20170720	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2012348494 BB	20171116	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2012348494 BB	20321207	PEXP		Calculated Patent Term Expiry	
BR112014013950 A2	20171003	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	
BR112014013950 A2	20171031	LSFE	+B08G	APPLICATION FEES: RESTORATION	
CL2014001516 A1	20150504	LSPB	+	published / reissued	
CO7101202 A2	20141031	LSPB	+	published / reissued	
ID201600451 A	20160212	LSPB	+	published / reissued	
IN01388MN2014 A	20150327	LSPB	+	published / reissued	
ITTO20111129 A1	20120309	LSPB	+	published / reissued	
JP2015505739 T2	20150226	LSPB	+	published / reissued	
MA35853 B1	20141201	LSGT	+	granted / extensions (spc, cpc, pte)	
MA35853 B1	20340709	PEXP		Calculated Patent Term Expiry	
NZ721462 A	20180223	LSPB	+	published / reissued	
NZ721462 A	20180525	LSGT	+PSEA	PATENT SEALED	
NZ721462 A	20180629	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 07 DEC 2019 BY MICHELE CABONI EFFECTIVE DATE : 20180605
PE20542014 A1	20150109	LSPB	+	published / reissued	
PE20542014 A1	20150720	LSWD	-FD	APPLICATION DECLARED VOID OR LAPSED	
RU2014128019 A	20160127	LSPB	+	published / reissued	
RU2014128019 A	20170420	LSRE	+FZ9A	APPLICATION NOT WITHDRAWN (CORRECTION OF THE NOTICE OF WITHDRAWAL)	EFFECTIVE DATE : 20160113
RU2018127741 A	20190314	LSPB	+	published / reissued	
WO13084253 A2	20130613	LSPB	+	published / reissued	
WO13084253 A3	20140609	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2014545454 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO13084253 A3	20140609	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2014/006933 COUNTRY OF REF DOCUMENT : MX
WO13084253 A3	20140609	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 000928-2014 COUNTRY OF REF DOCUMENT : PE
WO13084253 A3	20140624	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2012813551 COUNTRY OF REF

DOCUMENT : EP					
WO13084253 A3	20140709	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2014128019 COUNTRY OF REF DOCUMENT : RU KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO13084253 A3	20140709	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12014501577 COUNTRY OF REF DOCUMENT : PH
WO13084253 A3	20140709	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14148009 COUNTRY OF REF DOCUMENT : CO
WO13084253 A3	20140710	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : IDP00201404188 COUNTRY OF REF DOCUMENT : ID
WO13084253 A3	20140731	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2012348494 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20121207 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO13084253 A3	20150114	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12813551 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :
WO13084253 A3	20170613	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 112014013950 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20140609

Title: APPARATUS FOR IN-MOLD LABELLING

Abstract: A method and apparatus for in-mold labelling in which labels are individually cut from a continuous web as demanded by the cycling of a mold. The web of labels is advanced through a die cutter which sequentially cuts individual labels from the web. A transfer device picks a freshly cut label from the die cutter and places the label within the cavity of a mold located in proximity to the die cutter. By individually cutting labels from a web at the time of use rather than loading a stack of precut labels in a magazine, the invention allows for the use of thinner, less expensive, and compatible plastic label material.

Classifications:

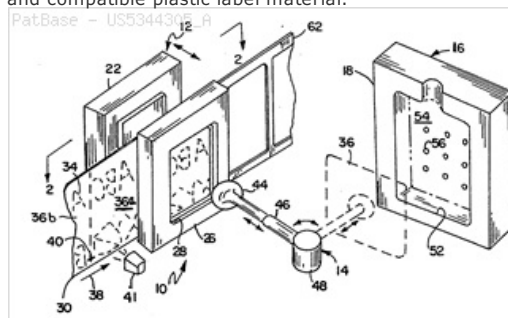
International (IPC 8-9): B29C49/24 E02D17/18 E02D29/02 E04B2/02 E04B2/22 E04C1/39 (Advanced/Invention); E02D17/18 E04B2/02 (Advanced/Non-invention); B29C49/24 E02D17/18 E02D29/02 E04B2/14 E04C1/00 (Core/Invention); E04B2/02 (Core/Non-invention)

International (IPC 1-7): B29C49/24 E02D17/18 E02D27/00 E02D29/00 E02D29/02 E02D3/02 E02D5/00 E04B2/22

CPC: E02D29/0225 E02D2200/13 E02D2300/0004 E02D2300/0032 E02D2300/0034 E02D2300/007 E02D2300/0085 E02D29/0241 E02D29/025 E04B2002/026 E04C1/395 E02D29/02 E04B2/22 B29C49/2408 B29C2049/2412 B29C2049/2437 B29C2793/0081 E02D29/0283 E02D29/0266 E02D2300/0006 E02D2300/0075

European: B29C49/24B E02D29/02 E02D29/02D E02D29/02D2 E02D29/02E E02D29/02F3 E04B2/22 E04C1/39B L29C49/24C1 L29C49/24D12C L29C793/001 P02D200/13 P02D29/02D2 P02D29/02F1 P02D300/10B P02D300/10B10 P02D300/10C20B P02D300/10C20C P02D300/10H P02D300/10L P02D300/10T P02D600/10C P04B2/02N2

US: 264/509 405/262 405/272 405/284 405/286 425/503 425/504 52/604 52/606



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19930011818	19930201	US19930040904	19930331	US19930009442	19930604
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WO1999IB00066	19990106	US19990418063	19991014	AU20010075592	20010921

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Assignee(s): REINFORCED EARTH CO A OF STATE OF VIRGINIA CORP ; TERRE ARMEE INTERNATIONALE ; SOCIETE CIVILE DES BREVETS HENRI VIDAL VELIZY VILLACOUBLAY ; SOC CIVILE DES BREVETS HENRI VIDAL ; SOCIETE CIVILE DES BREVETS HENRI VIDAL VELIZY VILL ; POE L RICHARD ; TERRE ARMEE INTERANTIONALE ; SOCIETE CIVILE DES BREVETS HENRI C VIDAL ; COWELL MICHAEL L ; COWELL MICHAEL J ; CIVILE DES BREVETS HENRI VIDAL PARC DES ERABLES IV ; CIVILE DES BREVETS SOC ; CIVILE DES BREVETS HENRI C VIDAL PAR DES ERABLES I ; CIVILE DES BREVETS HENRI C VIDAL PARC DES ERABLES ; CIVILE DES BREVETS HENRI C VIDAL SOC

Inventor(s): (std): ANDERSON PETER L ; COWELL MICHAEL L ; HOTEK DAN J ; PETER L ANDERSON ; MICHAEL L COWELL ; MICHAEL J COWELL ; MICHAEL J COWEL ; DAN J HOTEK ; COWELL MICHAEL J ; COWEL MICHAEL J ; MCKILLIP BARRON G

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; KIRBY EADES GALE BAKER; OKADA NORIKO; YAMASAKI YUKUZO

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT220436 E	20020715	LSGT	+	granted / extensions (spc, cpc, pte)	
AT220436 E	20030115	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT220436 E	20140321	PEXP		Calculated Patent Term Expiry	
AU199465224 A1	19950504	LSPB	+	published / reissued	
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AU199476755 A1	19950322	LSPB	+	published / reissued	
AU199876177 A1	19980910	LSPB	+	published / reissued	

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AU199917788 A1	19990726	LSPB	+	published / reissued	
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AU693803 B2	19980709	LSGT	+	granted / extensions (spc, cpc, pte)	
AU693803 B2	20140826	PEXP		Calculated Patent Term Expiry	
AU701433 B2	19990128	LSGT	+	granted / extensions (spc, cpc, pte)	
AU701433 B2	20140321	PEXP		Calculated Patent Term Expiry	
AU727300 B2	20001207	LSGT	+	granted / extensions (spc, cpc, pte)	
AU727300 B2	20010405	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU727300 B2	20020110	LSAS	PC	ASSIGNMENT REGISTERED	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS HENRI VIDAL OLDPARTY : FORMER OWNER WAS: THE REINFORCED EARTH COMPANY
AU727300 B2	20180716	PEXP		Calculated Patent Term Expiry	
AU734614 B2	20010621	LSGT	+	granted / extensions (spc, cpc, pte)	
AU734614 B2	20011018	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU734614 B2	20181203	PEXP		Calculated Patent Term Expiry	
AU754194 B2	20021107	LSGT	+	granted / extensions (spc, cpc, pte)	
AU754194 B2	20030313	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU754194 B2	20190106	PEXP		Calculated Patent Term Expiry	
AU777095 B2	20040930	LSGT	+	granted / extensions (spc, cpc, pte)	
AU777095 B2	20210921	PEXP		Calculated Patent Term Expiry	
CA2159455 AA	19950928	LSPB	+	published / reissued	
CA2159455 AA	20000418	LSES	+EEER	EXAMINATION REQUEST	
CA2159455 AA	20030321	LSLE	-FZDE	DEAD	
CA2170028 AA	19960221	LSPB	+	published / reissued	
CA2170028 AA	20020826	LSLE	-FZDE	DEAD	
CA2174078 AA	19960412	LSPB	+	published / reissued	
CA2174078 AA	19990322	LSLE	-FZDE	DEAD	
CA2317511 AA	20000706	LSPB	+	published / reissued	
CA2317511 AA	20050106	LSLE	-FZDE	DEAD	
DE69430953 D1	20030306	LSWD	-8332	NO LEGAL EFFECT FOR DE	

EP0692047 A1	19960117	LSPB	+	published / reissued	
EP0692047 A1	19960117	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19951031
EP0692047 A1	19970730	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19970611
EP0692047 A1	19980722	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19980122
EP0707117 A1	19960417	LSPB	+	published / reissued	
EP0707117 A1	19960703	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19960504
EP0707117 A1	19970924	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19970811
EP0707117 A1	20010627	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS HENRI VIDAL
EP0707117 A1	20010711	LSRE	RTI1	TITLE (CORRECTION)	TEXT : MODULAR BLOCK RETAINING WALL CONSTRUCTION
EP0707117 A1	20020710	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20020710
EP0707117 A1	20020710	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL 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 : 20020710
EP0707117 A1	20020710	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL 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 : 20020710
EP0707117 A1	20020710	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0707117 A1	20020715	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP0707117 A1	20020807	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP0707117 A1	20021010	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL 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 : 20021010
EP0707117 A1	20021010	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20021010
EP0707117 A1	20021011	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20021011

EP0707117 A1	20021113	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20020403201 COUNTRY OF REF DOCUMENT : GR
EP0707117 A1	20021201	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2091168 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP0707117 A1	20021202	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	REF COUNTRY CODE : EP
EP0707117 A1	20030702	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20030411
EP0707117 A1	20040308	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20040308 YEAR OF FEE PAYMENT : 11
EP0707117 A1	20050322	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050322
EP0707117 A1	20051230	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTY TYPE : OWNER REF COUNTRY CODE : CH OWNER : TERRE ARMEE INTERNATIONALE REF LEGAL EVENT CODE : PUE OLD PARTY : SOCIETE CIVILE DES BREVETS HENRI VIDAL#1, BIS RUE DU PETIT CLAMART#78140 VELIZY VILLACOUBLAY (FR) -TRANSFER TO- TERRE ARMEE INTERNATIONALE#1, BIS RUE DU PETIT CLAMART#78140 VELIZY VILLACOUBLAY (FR)
EP0707117 A1	20060428	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : TP
EP0707117 A1	20060616	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20050322
EP0707117 A1	20120629	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20120225 YEAR OF FEE PAYMENT : 19
EP0707117 A1	20130430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20130227 YEAR OF FEE PAYMENT : 20
EP0707117 A1	20130430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20130228 YEAR OF FEE PAYMENT : 20
EP0707117 A1	20130430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20130226 YEAR OF FEE PAYMENT : 20
EP0707117 A1	20130531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20130222 YEAR OF FEE PAYMENT : 20

EP0707117 A1	20130628	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20130314 YEAR OF FEE PAYMENT : 20
EP0707117 A1	20130830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20130429 YEAR OF FEE PAYMENT : 20
EP0707117 A1	20140328	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PT REF LEGAL EVENT CODE : MM4A TEXT : MAXIMUM VALIDITY LIMIT REACHED EFFECTIVE DATE : 20140321
EP0707117 A1	20140331	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0707117 A1	20140409	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : PE20 EXPIRY DATE : 20140320
EP0707117 A1	20140423	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MK9A
EP0707117 A1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20140320
EP0707117 A1	20140522	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : MA REF DOCUMENT NUMBER : 20020403201 COUNTRY OF REF DOCUMENT : GR EFFECTIVE DATE : 20140322
EP0707117 A1	20140630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20140328
EP0707117 A1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20140321
EP0707117 B1	20020710	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0707117 B1	20140320	PEXP		Calculated Patent Term Expiry	
EP0707117 B1	20140321	PEXP		Calculated Patent Term Expiry	
EP0722523 A1	19960724	LSPB	+	published / reissued	
EP0722523 A1	19960724	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19960430
EP0722523 A1	19990331	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19981001
EP0733137 A1	19960925	LSPB	+	published / reissued	
EP0733137 A1	19960925	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19960328
EP0733137 A1	19981202	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19981014

EP0733137 A1	20001213	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS HENRI VIDAL
EP0733137 A1	20020904	LSRV	-18R	APPLICATION REFUSED	EFFECTIVE DATE : 20020414
EP0733137 A1	20060407	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : WD REF DOCUMENT NUMBER : 1013674 COUNTRY OF REF DOCUMENT : HK
EP1045940 A1	20001025	LSPB	+	published / reissued	
EP1045940 A1	20001025	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20000804
EP1045940 A1	20020213	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20011227
EP1045940 A1	20030219	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20020506
ES2091168 T1	19961101	LSPB	+	published / reissued	
ES2091168 T3	20021201	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2091168 T3	20140321	PEXP		Calculated Patent Term Expiry	
HK1013320 A1	20030509	LSPB	+	published / reissued	
HK1013320 A1	20041215	LSFE	+PF	PATENT IN FORCE	
HK1013320 A1	20140417	LSLE	-PE	PATENT EXPIRED	EFFECTIVE DATE : 20140320
HK1013320 A1	20181222	PEXP		Calculated Patent Term Expiry	
JP2002500300 T2	20020108	LSPB	+	published / reissued	
JP2002500300 T2	20040223	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20040220
JP2002500300 T2	20060516	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060516
JP2002500300 T2	20061117	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20061116
JP2002500300 T2	20070417	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20070417
JP2002500300 T2	20070602	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A712 EFFECTIVE DATE : 20070601
JP2002500300 T2	20070815	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20070814
JP2002500300 T2	20070928	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20070927
JP2002500300 T2	20071003	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A911 EFFECTIVE DATE : 20071002
JP2002500300 T2	20080110	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080109
JP2002500300 T2	20080115	LSGT	+A01	WRITTEN	TEXT : JAPANESE INTERMEDIATE CODE:

				DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	A01 EFFECTIVE DATE : 20080115
JP2002500300 T2	20080213	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A712 EFFECTIVE DATE : 20080212
JP2002500300 T2	20080214	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20080213
JP2002500300 T2	20080221	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20080212
JP2002500300 T2	20080509	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP2002500300 T2	20080509	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2004132174 A2	20040430	LSPB	+	published / reissued	
JP2004132174 A2	20050913	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20050913
JP2004132174 A2	20060314	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20060313
JP2004132174 A2	20060427	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2004132174 A2	20060509	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20060509
JP2004132174 A2	20060608	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20060531
JP2004132174 A2	20060623	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP3584036 B2	20041104	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3584036 B2	20070607	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	TEXT : JAPANESE INTERMEDIATE CODE: R313111
JP3584036 B2	20070614	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP3584036 B2	20070621	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3584036 B2	20070717	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3584036 B2	20070807	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3584036 B2	20080812	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT	YEAR OF FEE PAYMENT : 5

				DATE IS RENEWAL DATE OF DATABASE)	
JP3584036 B2	20080818	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	TEXT : JAPANESE INTERMEDIATE CODE: R313113
JP3584036 B2	20080826	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3584036 B2	20080826	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP3584036 B2	20090811	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3584036 B2	20100805	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3584036 B2	20100810	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3584036 B2	20110809	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 8
JP3584036 B2	20120807	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 9
JP3584036 B2	20130806	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3584036 B2	20140321	LSLE	-EXPY	CANCELLATION BECAUSE OF COMPLETION OF TERM	
JP3584036 B2	20140321	PEXP		Calculated Patent Term Expiry	
JP3817676 B2	20060906	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3817676 B2	20070607	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	TEXT : JAPANESE INTERMEDIATE CODE: R313111
JP3817676 B2	20070614	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP3817676 B2	20070621	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3817676 B2	20070717	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3817676 B2	20080818	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	TEXT : JAPANESE INTERMEDIATE CODE: R313113
JP3817676 B2	20080826	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3

JP3817676 B2	20080826	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP3817676 B2	20090604	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3817676 B2	20090609	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3817676 B2	20100608	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3817676 B2	20110602	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3817676 B2	20110607	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3817676 B2	20120626	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3817676 B2	20140321	LSLE	-EXPY	CANCELLATION BECAUSE OF COMPLETION OF TERM	
JP3817676 B2	20231015	PEXP		Calculated Patent Term Expiry	
JP4119946 B2	20080716	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4119946 B2	20080117	LSGT	+A01	特許査定書 Decision of patent grant	
JP4119946 B2	20080219	LSFE	R100	特許料納付書 Patent fee payment form	
JP4119946 B2	20080408	LSFE	R110	特許料納付書 (設定補充) Patent fee payment form (setting replenishment)	
JP4119946 B2	20080818	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	TEXT : JAPANESE INTERMEDIATE CODE: R313113
JP4119946 B2	20080826	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP4119946 B2	20080826	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP4119946 B2	20110512	LSFE	R20	特許料納付書 Patent fee payment form	
JP4119946 B2	20110517	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP4119946 B2	20120510	LSFE	R20	特許料納付書 Patent fee payment form	
JP4119946 B2	20120515	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP4119946 B2	20130502	LSFE	+FPAY	RENEWAL FEE	YEAR OF FEE PAYMENT : 5

				PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	
JP4119946 B2	20130514	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4119946 B2	20140501	LSFE	R20	特許料納付書 Patent fee payment form	
JP4119946 B2	20140507	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4119946 B2	20150507	LSFE	R20	特許料納付書 Patent fee payment form	
JP4119946 B2	20150512	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4119946 B2	20160506	LSFE	R20	特許料納付書 Patent fee payment form	
JP4119946 B2	20160510	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4119946 B2	20170508	LSFE	R20	特許料納付書 Patent fee payment form	
JP4119946 B2	20170516	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4119946 B2	20180507	LSFE	R20	特許料納付書 Patent fee payment form	
JP4119946 B2	20180515	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4119946 B2	20190106	LSLE	-EXPY	CANCELLATION BECAUSE OF COMPLETION OF TERM	
JP4119946 B2	20190106	PEXP		Calculated Patent Term Expiry	
JP8511590 T2	19961203	LSPB	+	published / reissued	
JP8511590 T2	20040707	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP8511590 T2	20040713	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20040713
JP8511590 T2	20040805	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20040802
JP8511590 T2	20040806	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP9501999 T2	19970225	LSPB	+	published / reissued	
JP9505858 T2	19970610	LSPB	+	published / reissued	
MY131935 A	20070928	LSGT	+	granted / extensions (spc, cpc, pte)	
MY131935 A	20220928	PEXP		Calculated Patent Term Expiry	
PT707117 T	20021129	LSGT	+	granted / extensions (spc, cpc, pte)	
PT707117 T	20171129	PEXP		Calculated Patent Term Expiry	
SG52467 A1	19980928	LSPB	+	published / reissued	
SG52473 A1	19980928	LSPB	+	published /	

SG52510 A1	19980928	LSPB	+	reissued published / reissued	
US5344305 A	19940906	LSGT	+	granted / extensions (spc, cpc, pte)	
US5344305 A	19930201	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CCL LABEL, INC., MICHIGAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:MCKILLIP, BARRON G.; REEL/FRAME:006424/0686 EFFECTIVE DATE : 19930112
US5344305 A	19980302	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5344305 A	20020906	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5344305 A	20021009	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5344305 A	20021105	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20020906
US5344305 A	20130201	PEXP		Calculated Patent Term Expiry	
US5474405 A	19951212	LSGT	+	granted / extensions (spc, cpc, pte)	
US5474405 A	19940118	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ANDERSON, PETER L.; COWELL, MICHAEL J.; HOTEK, DAN J.; REEL/FRAME:006831/0254 EFFECTIVE DATE : 19940111
US5474405 A	19951201	LSGT	PAT1	Patented Case	
US5474405 A	19990506	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5474405 A	20030520	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5474405 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US5474405 A	20070601	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5474405 A	20131015	PEXP		Calculated Patent Term Expiry	
US5487623 A	19960130	LSGT	+	granted / extensions (spc, cpc, pte)	
US5487623 A	19931026	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS HENRI C. VIDAL, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ANDERSON, PETER L.; COWELL, MICHAEL J.; HOTEK, DAN J.; REEL/FRAME:006740/0876 EFFECTIVE DATE : 19930811
US5487623 A	19960118	LSGT	PAT1	Patented Case	
US5487623 A	19990715	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5487623 A	20030709	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8

US5487623 A	20070726	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5487623 A	20121121	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE REINFORCED EARTH COMPANY, VIRGINIA OLDPARTY : NUNC PRO TUNC ASSIGNMENT; ASSIGNOR:TERRE ARMEE INTERNATIONALE; REEL/FRAME:029335/0271 EFFECTIVE DATE : 20121121
US5487623 A	20130818	PEXP		Calculated Patent Term Expiry	
US5494379 A	19960227	LSGT	+	granted / extensions (spc, cpc, pte)	
US5494379 A	19960215	LSGT	PAT1	Patented Case	
US5494379 A	19960215	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5494379 A	19990803	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5494379 A	20030805	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5494379 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US5494379 A	20070802	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5494379 A	20150606	PEXP		Calculated Patent Term Expiry	
US5507599 A	19960416	LSGT	+	granted / extensions (spc, cpc, pte)	
US5507599 A	19930524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS HENRI C. VIDAL, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ANDERSON, PETER L.; COWELL, MICHAEL J.; HOTEK, DAN J.; REEL/FRAME:006487/0337; SIGNING DATES FROM 19930416 TO 19930419
US5507599 A	19960213	LSGT	PAT1	Patented Case	
US5507599 A	19990916	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5507599 A	20031010	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5507599 A	20070925	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5507599 A	20121121	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE REINFORCED EARTH COMPANY, VIRGINIA OLDPARTY : NUNC PRO TUNC ASSIGNMENT; ASSIGNOR:TERRE ARMEE INTERNATIONALE; REEL/FRAME:029335/0271 EFFECTIVE DATE : 20121121
US5507599 A	20130416	PEXP		Calculated Patent Term Expiry	
US5577866 A	19961126	LSGT	+	granted / extensions (spc, cpc, pte)	
US5577866 A	19961115	LSGT	PAT1	Patented Case	
US5577866 A	19961115	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5577866 A	20000404	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

US5577866 A	20040526	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5577866 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US5577866 A	20080502	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5577866 A	20150606	PEXP		Calculated Patent Term Expiry	
US5586841 A	19961224	LSGT	+	granted / extensions (spc, cpc, pte)	
US5586841 A	19950417	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS HENRI VIDAL, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ANDERSON, PETER L.; COWELL, MICHAEL J.; HOTEK, DAN J.; REEL/FRAME:007444/0047; SIGNING DATES FROM 19950404 TO 19950407
US5586841 A	19961212	LSGT	PAT1	Patented Case	
US5586841 A	19961212	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5586841 A	20000411	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5586841 A	20040526	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5586841 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US5586841 A	20080530	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5586841 A	20121121	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE REINFORCED EARTH COMPANY, VIRGINIA OLDPARTY : NUNC PRO TUNC ASSIGNMENT; ASSIGNOR:TERRE ARMEE INTERNATIONALE; REEL/FRAME:029335/0264 EFFECTIVE DATE : 20121121
US5586841 A	20150203	PEXP		Calculated Patent Term Expiry	
US5622455 A	19970422	LSGT	+	granted / extensions (spc, cpc, pte)	
US5622455 A	19970411	LSGT	PAT1	Patented Case	
US5622455 A	19970411	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5622455 A	20001019	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5622455 A	20040922	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5622455 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210

US5622455 A	20080925	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5622455 A	20150607	PEXP		Calculated Patent Term Expiry	
US5624211 A	19970429	LSGT	+	granted / extensions (spc, cpc, pte)	
US5624211 A	19940314	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS HENRI C. VIDAL, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ANDERSON, PETER L.; COWELL, MICHAEL J.; HOTEK, DAN J.; REEL/FRAME:006894/0895 EFFECTIVE DATE : 19940207
US5624211 A	19970417	LSGT	PAT1	Patented Case	
US5624211 A	19970417	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5624211 A	19991104	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POE, L. RICHARD, GEORGIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HARTWELL CORPORATION, THE; REEL/FRAME:010676/0153 EFFECTIVE DATE : 19991012
US5624211 A	20001019	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5624211 A	20040922	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5624211 A	20080925	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5624211 A	20140429	PEXP		Calculated Patent Term Expiry	
US5642968 A	19970701	LSGT	+	granted / extensions (spc, cpc, pte)	
US5642968 A	19970618	LSGT	PAT1	Patented Case	
US5642968 A	19970618	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5642968 A	20001228	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5642968 A	20041230	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5642968 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US5642968 A	20081224	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5642968 A	20151024	PEXP		Calculated Patent Term Expiry	
US5707184 A	19980113	LSGT	+	granted / extensions (spc, cpc, pte)	
US5707184 A	19970519	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS HENRI C. VIDAL, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ANDERSON, PETER L.; COWELL, MICHAEL J.; HOTEK, DAN J.; REEL/FRAME:008514/0668; SIGNING DATES FROM 19970415 TO 19970424
US5707184 A	19980105	LSGT	PAT1	Patented Case	
US5707184 A	19980105	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE

US5707184 A	20010713	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5707184 A	20050713	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5707184 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US5707184 A	20090629	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5707184 A	20151212	PEXP		Calculated Patent Term Expiry	
US5730559 A	19980324	LSGT	+	granted / extensions (spc, cpc, pte)	
US5730559 A	19980217	LSGT	PAT1	Patented Case	
US5730559 A	19980217	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5730559 A	20010924	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5730559 A	20050913	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5730559 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US5730559 A	20090828	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5730559 A	20161125	PEXP		Calculated Patent Term Expiry	
US5807030 A	19980915	LSGT	+	granted / extensions (spc, cpc, pte)	
US5807030 A	19980716	LSGT	PAT1	Patented Case	
US5807030 A	19980716	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5807030 A	20020219	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5807030 A	20060227	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5807030 A	20100308	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5807030 A	20120606	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE REINFORCED EARTH COMPANY, A CORPORATION OF THE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ANDERSON, PETER L.; COWELL, MICHAEL J.; HOTEK, DAN J.; SIGNING DATES FROM 20021210 TO 20021230; REEL/FRAME:028326/0626
US5807030 A	20121121	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE REINFORCED EARTH COMPANY, VIRGINIA OLDPARTY : NUNC PRO TUNC ASSIGNMENT; ASSIGNOR:TERRE ARMEE INTERNATIONALE; REEL/FRAME:029335/0271 EFFECTIVE DATE : 20121121
US5807030 A	20150915	PEXP		Calculated Patent Term Expiry	
US5947643 A	19990907	LSGT	+	granted / extensions (spc, cpc, pte)	

US5947643 A	19990830	LSGT	PAT1	Patented Case	
US5947643 A	19990830	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5947643 A	20030307	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5947643 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US5947643 A	20070226	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5947643 A	20110221	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5947643 A	20170421	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US5951209 A	19990914	LSGT	+	granted / extensions (spc, cpc, pte)	
US5951209 A	19990903	LSGT	PAT1	Patented Case	
US5951209 A	19990903	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5951209 A	20030307	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5951209 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US5951209 A	20070227	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5951209 A	20110224	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5951209 A	20180324	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6050748 A	20000418	LSGT	+	granted / extensions (spc, cpc, pte)	
US6050748 A	19991214	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS HENRI VIDAL, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ANDERSON, PETER L.; COWELL, MICHAEL J.; HOTEK, DAN; REEL/FRAME:010464/0930; SIGNING DATES FROM 19991019 TO 19991118
US6050748 A	20000407	LSGT	PAT1	Patented Case	
US6050748 A	20000407	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6050748 A	20031010	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6050748 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210

US6050748 A	20070925	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6050748 A	20110923	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6050748 A	20120327	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE REINFORCED EARTH COMPANY, VIRGINIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:TERRE ARMEE INTERNATIONALE; REEL/FRAME:027936/0279 EFFECTIVE DATE : 20120327
US6050748 A	20180914	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6079908 A	20000627	LSGT	+	granted / extensions (spc, cpc, pte)	
US6079908 A	19991206	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOCIETE CIVILE DES BREVETS HENRI VIDAL, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ANDERSON, PETER L.; COWELL, MICHAEL J.; HOTEK, DAN J.; REEL/FRAME:010426/0858; SIGNING DATES FROM 19991019 TO 19991118
US6079908 A	20000609	LSGT	PAT1	Patented Case	
US6079908 A	20000609	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6079908 A	20031126	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6079908 A	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US6079908 A	20071123	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6079908 A	20111125	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6079908 A	20180106	PEXP		Calculated Patent Term Expiry	
US6336773 BA	20020108	LSGT	+	granted / extensions (spc, cpc, pte)	
US6336773 BA	20011220	LSGT	PAT1	Patented Case	
US6336773 BA	20011220	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6336773 BA	20050705	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6336773 BA	20060410	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRE ARMEE INTERANTIONALE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SOCIETE CIVILE DES BREVETS HENRI VIDAL; REEL/FRAME:017435/0518 EFFECTIVE DATE : 20050210
US6336773 BA	20090629	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6336773 BA	20130315	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6336773 BA	20191014	PEXP		Calculated Patent Term Expiry	
WO9423136 A2	19941013	LSPB	+	published / reissued	

WO9423136 A3	19950928	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2159455 COUNTRY OF REF DOCUMENT : CA
WO9423136 A3	19951031	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994913930 COUNTRY OF REF DOCUMENT : EP
WO9423136 A3	19960117	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994913930 COUNTRY OF REF DOCUMENT : EP
WO9423136 A3	19980122	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994913930 COUNTRY OF REF DOCUMENT : EP
WO9506784 A1	19950309	LSPB	+	published / reissued	
WO9506784 A1	19960221	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2170028 COUNTRY OF REF DOCUMENT : CA
WO9506784 A1	19960328	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994927249 COUNTRY OF REF DOCUMENT : EP
WO9506784 A1	19960925	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994927249 COUNTRY OF REF DOCUMENT : EP
WO9506784 A1	20020414	LSRV	-WWR	WIPO INFORMATION: REFUSED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994927249 COUNTRY OF REF DOCUMENT : EP
WO9506784 A1	20020716	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994927249 COUNTRY OF REF DOCUMENT : EP
WO9510667 A1	19950420	LSPB	+	published / reissued	
WO9510667 A1	19960412	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2174078 COUNTRY OF REF DOCUMENT : CA
WO9510667 A1	19960429	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994912829 COUNTRY OF REF DOCUMENT : EP
WO9510667 A1	19960724	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994912829 COUNTRY OF REF DOCUMENT : EP
WO9510667 A1	19981001	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994912829 COUNTRY OF REF DOCUMENT : EP
WO9935343 A1	19990715	LSPB	+	published / reissued	
WO9935343 A1	20000706	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2317511 COUNTRY OF REF DOCUMENT : CA KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO9935343 A1	20000706	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2317511 COUNTRY OF REF DOCUMENT : CA
WO9935343 A1	20000802	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 17788/99 COUNTRY OF REF DOCUMENT : AU
WO9935343 A1	20000804	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1999900097 COUNTRY OF REF DOCUMENT : EP
WO9935343 A1	20001025	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1999900097 COUNTRY OF REF DOCUMENT : EP
WO9935343 A1	20020506	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN	REF DOCUMENT NUMBER : 1999900097 COUNTRY OF REF DOCUMENT : EP

NATIONAL OFFICE					
WO9935343 A1	20030227	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 17788/99 COUNTRY OF REF DOCUMENT : AU
ZA9401994 A	19950922	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA9401994 A	20140321	PEXP		Calculated Patent Term Expiry	
ZA9401995 A	19950922	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA9401995 A	20140321	PEXP		Calculated Patent Term Expiry	
ZA9406559 A	19951002	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA9406559 A	20140828	PEXP		Calculated Patent Term Expiry	

Title: INRICHTING VOOR HET OPDELEN VAN EEN RUIMTE.

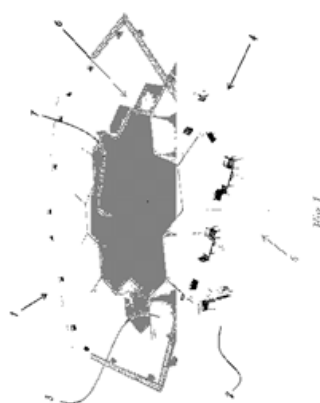
Abstract: Source: NL1041348B [NL] 1041348 21) AANVRAAGNUMMER: 1041348 22) AANVRAAG INGEDIEND: 10/06/2015 BI OCTROOI (51) INT. CL: E04H 1/12 (2006.01) **E04B** 2/74 (2016.01) **E04B** 1/00 (2016.01) (30) VOORRANG: (73) OCTROOIHOUDE(S): 11/06/2014 BE 2014/0442 EXPOPOINT BVBA TE ZOERSEL, BELGIUM, BE. (43) AANVRAAG GEPUBLICEERD: (72) UITVINDER(S): 13/04/2016 KOEN DEN HAERYNCK TE ZOERSEL (BE). (47) OCTROOI VERLEEND: 15/07/2016 (74) GEMACHTIGDE: DRS. O. GRIEBLING TE TILBURG. (45) OCTROOISCHRIFT UITGEGEVEN: 08/11/2016 (54) INRICHTING VOOR HET OPDELEN VAN EEN RUIMTE. (5 DE UITVINDING BETREFT EEN INRICHTING VOOR HET OPDELEN VAN EEN RUIMTE IN MEERDERE DEELRUIMTEN BESTAANDE UIT EEN MODULAIR SYSTEEM VAN SCHEIDINGSWANDEN, WAARBIJ DE INRICHTING BESTAAT UIT EEN SAMENBOUW VAN ZESHOEKIGE EENHEDEN IN DE VORM VAN EEN HONINGRAATMOTIEF WAARBIJ DE SCHEIDINGSWANDEN ZIJN OPGESTELD OP EEN OF MEERDERE ZIJDEN VAN EEN OF MEERDERE VAN DE ZESHOEKIGE EENHEDEN ZODANIG DAT AFGESCHIEDEN DEELRUIMTEN ONTSTAAN. DE UITVINDING BETREFT EVENEENS HET GEBRUIK VAN EEN DERGELIJKE INRICHTING VOOR HET OPDELEN VAN BEURSRUIMTES OF LANDSCHAPSKANTOREN.] DIT OCTROOI IS VERLEEND ONGEACHT HET BIJGEVOEGDE RESULTAAT VAN HET ONDERZOEK NAAR DE STAND VAN DE TECHNIEK EN SCHRIFTELIJKE OPINIE. HET OCTROOISCHRIFT KOMT OVEREEN MET DE OORSPRONKELIJK INGEDIENDE STUKKEN.

Classifications:

International (IPC 8-9): E04B1/00 E04B2/74
E04H1/12 (Advanced/Invention)

CPC: E04B2/74 E04B2001/0084 E04H1/1272

PatBase - NL1041348_R



Family:

Publication number	Publication date	Application number	Application date
NL1041348 A	20160330	NL20151041348	20150610
NL1041348 B1	20160715	NL20151041348	20150610

Priority:

BE20140000442 20140611

Probable Assignee:

EXPOPOINT BVBA

Assignee(s): (std):

EXPOPOINT BVBA

Inventor(s): (std):

KOEN DEN HAERYNCK

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
NL1041348 A	20160330	LSPB	+	published / reissued	
NL1041348 B1	20160715	LSGT	+	granted / extensions (spc, cpc, pte)	
NL1041348 B1	20350610	PEXP		Calculated Patent Term Expiry	

Title: COUPLING FOR A **MODULAR CONSTRUCTION** SYSTEM

Abstract: PCT No. PCT/GB92/01254 Sec. 371 Date Jan. 6, 1994 Sec. 102(e) Date Jan. 6, 1994 PCT Filed Jul. 9, 1992 PCT Pub. No. WO93/01419 PCT Pub. Date Jan. 21, 1993. A coupling for a **modular construction** system whereby a tubular element is linked to another element, or is supported, characterised by: 1) at least one cup-shaped unit (P, 22, 41, 61, 81, 102) having an open end (16) and a reduced end (12); the open end (16) serving to receive an end (E) of a tubular element (T) to enable the end (E) to be pushed to a rest position (18) at the reduced end (12) of the cup-shaped unit (P), and locking means (30) enabling a tubular element end (E) to be retained against further movement relative to the cup-shaped unit (P); the length (L') of the unit (P) being between one and one half and twice the outside diameter (D) of the tubular element (or of the major transverse dimension of the tubular element if it is of non-circular cross-section); and an aperture (13) at the reduced end (12) of the cup-shaped unit which is no more than one-half the maximum interior diameter (I) or maximum interior dimension of the cup-shaped unit (P); 2) the or each cup-shaped unit (P, 22, 41, 61, 81, 102) being linked to either: (i) a tube unit (43) adapted to enable a tubular element (T') to extend at least part way through the tube unit (43); or (ii) a block unit (83) adapted to align longitudinal axis (81') of cup-shaped unit (81) with a corresponding axis (84', 82') of at least one other tube unit (80) or further cup-shaped unit (82).

Classifications:

International (IPC 8-9): E04B1/58 F16B7/04

F16B7/10 (Advanced/Invention);

E04B1/58 F16B7/00 F16B7/04 (Core/Invention)

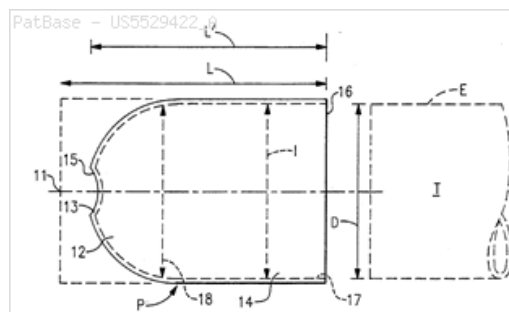
International (IPC 1-7): E04B1/58 E04G7/06 F16B7/00 F16B7/04 F16B7/10

CPC: Y10T403/34 Y10T403/341 Y10T403/44 Y10T403/478 F16B7/0486

E04B1/585 E04B2001/5868 E04B2001/5887

European: E04B1/58C2C F16B7/04D4E P04B1/58H P04B1/58M

US: 403/169 403/170 403/217 403/271



Family:

Publication number	Publication date	Application number	Application date
AU199222789 A1	19930211	AU19920022789	19920709
AU656407 B2	19950202	AU19920022789	19920709
EP0678168 A1	19951025	EP19920914705	19920709
GB2257488 A1	19930113	GB19910014798	19910709
GB9114798 A0	19910828	GB19910014798	19910709
JP6508906 T2	19941006	JP19930502112T	19920709
US5529422 A	19960625	US19940178303	19940106
WO9301419 A1	19930121	WO1992GB01254	19920709

Priority:

GB19910014798 19910709 WO1992GB01254 19920709

Probable Assignee: LIGERTWOOD PETER

Assignee(s): (std): LIGERTWOOD PETER

Assignee(s): PETER LIGERTWOOD

Inventor(s): (std): LIGERTWOOD PETER

Inventor(s): PETER LIGERTWOOD

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: AT AU BE CH DE DK ES FR GB GR IT JP LI LU MC NL SE US

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199222789 A1	19930211	LSPB	+	published / reissued	
AU656407 B2	19950202	LSGT	+	granted / extensions (spc, cpc, pte)	
AU656407 B2	20120709	PEXP		Calculated Patent Term Expiry	
EP0678168 A1	19951025	LSPB	+	published / reissued	
EP0678168 A1	19951025	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19940208
EP0678168 A1	19970502	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19970318
EP0678168 A1	19980909	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19980303
GB2257488 A1	19930113	LSPB	+	published / reissued	

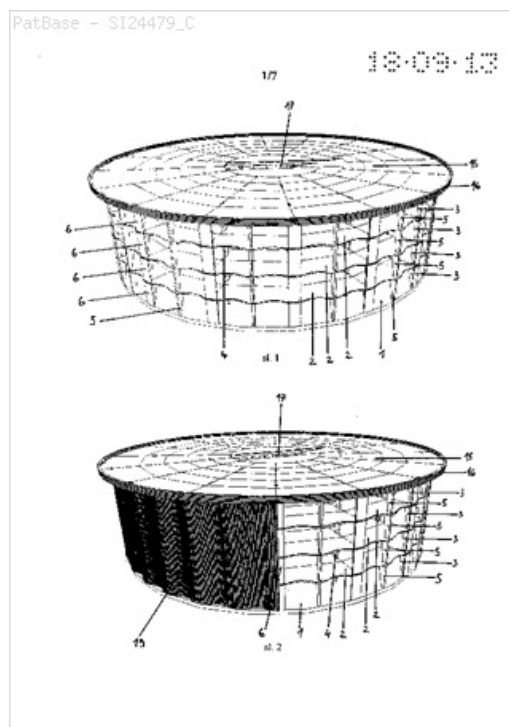
GB2257488 A1	19931103	LSWD	-WAP	APPLICATION WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1)	
JP6508906 T2	19941006	LSPB	+	published / reissued	
US5529422 A	19960625	LSGT	+	granted / extensions (spc, cpc, pte)	
US5529422 A	19960612	LSGT	PAT1	Patented Case	
US5529422 A	20000625	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5529422 A	20000829	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20000625
US5529422 A	20180126	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5529422 A	20180126	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5529422 A	20140106	PEXP		Calculated Patent Term Expiry	
WO9301419 A1	19930121	LSPB	+	published / reissued	
WO9301419 A1	19940106	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 08178303 COUNTRY OF REF DOCUMENT : US
WO9301419 A1	19940208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1992914705 COUNTRY OF REF DOCUMENT : EP
WO9301419 A1	19951025	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1992914705 COUNTRY OF REF DOCUMENT : EP
WO9301419 A1	19980303	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1992914705 COUNTRY OF REF DOCUMENT : EP

Title: PREFABRICATED WOODEN **CONSTRUCTION** FOR **BUILDING** OF WOODEN OBJECTS

Abstract: Source: SI24479C [SL] Prefabricirana lesena konstrukcija, za gradnjo lesenih objektov rešuje problem enostavno izvedljive, modularne in vecfunkcijsko uporabne lesene konstrukcije, ki je zasnovana na skeletno - panelnem načinu gradnje iz lesenih krizno lepljenih masivnih plošč in lepljenem lameliranem lesu. Krožno radialno zasnovana konstrukcija je izvedljiva v eni ali vec etazni izvedbi, pri kateri je temeljenje izvedeno s temeljno ploščo (1), na katero so postavljena povezja stebrih soh (20), ki skupaj z vmesnimi povezji (21) nosijo etazne plošče (2) stropa prve etaze, katere nadalje nosijo konstrukcijo druge etaze. Konstrukcijski sistem se ponavlja v vseh naslednjih etazah s to razliko, da povezja stebrih soh (20) in vmesna povezja (21) v zadnji etazi nosijo plošče ravne strehe (15) in napuška ravne strehe (16). Bistvo konstrukcije predstavlja simetrično zasnovano povezje stebrih soh (20), ki je sestavljeno iz dveh zunanjih stebrih soh (3), dveh notranjih stebrih soh (4) in dveh primarnih nosilcev (7). Povezje stebrih soh (20) skupaj z vmesnim povezjem (21) tvori osnovni prostorski modul, ki gaje mogoče poljubno sestavljati v radialne, linearne ali konkavno - konveksne kompozicije. **Machine translation:** Prefabricirana wooden structure, for the **construction** of wooden **buildings** solves the problem of easily implementable, **modular** and vecfunkcijsko useful wooden **construction**, which is based on the skeletal-mode works from the Panel shall wooden laminated solid records and lepljenem crisis lameliranem. Krožno radial design **construction** is feasible in one or more of the etazni, which is the Foundation of the fundamental conducted by pouring subgrade (1), on which they placed povezja stebrih soh (20) which, together with intermediate povezji (21) wearing a etazne sheet (2) ceiling first etaze which further carry the structure of other etaze. Structural system is repeated in all the following etazah with the difference that povezja stebrih soh (20) and intermediate povezja (21) in the last etazi wear sheet flat roof (15) and napuška flat roof (16). The essence of the structure represents the simetricno based povezje stebrih soh (20), which is composed of two external stebrih soh (3), two internal stebrih soh (4) and two primary volume (7). Povezje stebrih soh (20), together with intermediate povezjem (21), forms the basic surround module, maybe any **building** in a radial, linear, or concave-convex Compositions.

Classifications:

International (IPC 8-9): E04B2/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
SI24479 C	20150331	SI20130000279	20130918

Priority:

SI20130000279 20130918

Probable Assignee:

BOŠTJAN TEMNIKER

Assignee(s): (std):

BOŠTJAN TEMNIKER

Inventor(s): (std):

BOŠTJAN TEMNIKER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
SI24479 C	20150331	LSGT	+	granted / extensions (spc, cpc, pte)	
SI24479 C	20150430	LSGT	+0000	GRANT OF PATENT	EFFECTIVE DATE : 20150420
SI24479 C	20170731	LSLE	-K000	LAPSE OF PATENT	EFFECTIVE DATE : 20170616
SI24479 C	20330918	PEXP		Calculated Patent Term Expiry	

Title: MODULAIR BOUWSYSTEEM.

Abstract: Source: NL1040286C [NL] C OCTROOI (2?) AANVRAAGNUMMER: 1040286 (22) AANVRAAG INGEDIEND: 05.07.2013 (0 INT.CL.: **E04B** 2/16 (2006.01) 0 AANVRAAG GEPUBLICEERD: 0 OCTROOIHOUDE(S): WILLEM TJIBBE BEUGELINK TE APELDOORN. 0 OCTROOI VERLEEND: 06.01.2015 (0 UITVINDER(S): WILLEM TJIBBE BEUGELINK TE APELDOORN. 0 OCTROOISCHRIFT UITGEGEVEN: 14.01.2015 (0 GEMACHTIGDE: GEEN. 0 MODULAIR BOUWSYSTEEM. 0 DE ONDERHAVIGE UITVINDING BETREFT EEN LICHTGEWICHT MODULAIR HYBRIDE BOUWSYSTEEM TEN BEHOEVE VAN HET BOUWEN VAN EEN GEBOUW OF ANDERSOORTIGE CONSTRUCTIE EN OMVAT EEN BASISFRAME MET EEN AANTAL HULPSTUKKEN. HET HYBRIDE BOUWSYSTEEM WORDT GEKENMERKT DOORDAT HET KENMERKEN TEN BEHOEVE HET MEERDERE FUNCTIES, ZOALS EEN CONSTRUCTIE FUNCTIE, NETWERK/INSTALLATIE KANALEN, ISOLATIE EN AFWERKING IN EEN LICHTGEWICHT PRODUCT OMVAT. DIT OCTROOI IS VERLEEND ONGEACHT HET BIJGEVOEGDE RESULTAAT VAN HET ONDERZOEK NAAR DE STAND VAN DE TECHNIEK EN SCHRIFTELIJKE OPINIE. HET OCTROOISCHRIFT KOMT OVEREEN MET DE OORSPRONKELIJK INGEDIENDE STUKKEN. **Machine translation:** C PATENT (2?) APPLICATION NUMBER: 1040286 (22) APPLICATION FILED: 07.05.2013 (0 INT.CL.: **E04B** 2/16 (2006.01) 0 APPLICATION PUBLISHED: 0 PATENT HOLDER (S): WILLEM Tjibbe Beugelink TO APELDOORN. 0 PATENT GRANTED: 01.06.2015 (0 INVENTOR (S): WILLEM Tjibbe Beugelink TO APELDOORN . 0 PATENT ISSUED SCRIPTURE: 14.01.2015 (0 AGENT:.. NONE 0 **modular construction** system. 0 The present invention relates A LIGHTWEIGHT **MODULAR** HYBRID **construction** system BEHALF OF THE **CONSTRUCTION** OF A **BUILDING** OR OTHER STRUCTURE AND INCLUDES A BASE FRAME WITH A NUMBER OF ACCESSORIES. THE HYBRID **construction** system is characterized by CHARACTERISTICS TO ASSIST THE MULTIPLE FUNCTIONS AS **CONSTRUCTION** WORK, NETWORK / INSTALLATION CHANNELS, INSULATION AND FINISH IN LIGHTWEIGHT PRODUCT INCLUDES. THIS PATENT GRANTED IN ANY ACCOMPANYING THE RESULT OF THE EXAMINATION OF THE PRIOR ART AND WRITTEN OPINION. PATENT OF DEFENCE AGREES WITH ORIGINAL DOCUMENTS SUBMITTED.

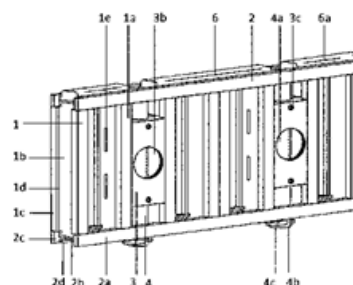
Classifications:

International (IPC 8-9): E04B2/16 (Advanced/Invention)

CPC: E04B2/16 E04B2002/0245

PatBase - NL1040286_C

Figuur 1



1040286

Family:

Publication number	Publication date	Application number	Application date
NL1040286 C	20150106	NL20131040286	20130705
NL1040286 C2	20150106	NL20131040286	20130705

Priority:

NL20131040286 20130705

Probable Assignee:

BEUGELINK WILLEM TJIBBE

Assignee(s): (std):

BEUGELINK WILLEM TJIBBE

Inventor(s): (std):

BEUGELINK WILLEM TJIBBE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
NL1040286 C	20150106	LSGT	+	granted / extensions (spc, cpc, pte)	
NL1040286 C	20170301	LSLE	-MM	LAPSED BECAUSE OF NON-PAYMENT OF THE ANNUAL FEE	EFFECTIVE DATE : 20160801
NL1040286 C	20330705	PEXP		Calculated Patent Term Expiry	
NL1040286 C2	20150106	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: INTERLOCKING MODULES FOR RAPID **CONSTRUCTION** OF SHELTERS AND BARRIERS

Abstract: [21] Appl. No.: 381,468 [52] [51] [581 [561 3,080,(U.S. CI 52/262, 52/271, 52/309, 52/492, 52/589, 46/30 Int. C I **E04b** 2/18 Field of Search. 52/262, 270, 284, 576, 52/589, 169, 668, 489, 426, 429, 425, 592; 46/21, 30; 61/29, 32 References Cited UNITED STATES PATENTS 9/1917 7/1940 4/1958 12/1962 3/1963 8/1964 9/1964 2/1967 2/1969 1/1971 Sawyer. 52/425 Grubb. 52/589 X Swallert. 46/21 Schuh. 46/30 Amici 52/592 X Haas 46/21 UX W heeler-Nicholson 52/439 W ard. 52/425 X Cacossa 52/262 Omholt 52/492 Layne 52/426 ABSTRACT This is a **modular construction** system for rapid assembly and disassembly of shelters and barriers which provides protection from natural or man-made environments. The shelters are **constructed** from three types of modules which permit a wide variety of covered structures or walls which may be quickly erected to protect occupants and equipment. The three modules are end panels or spacers which are slotted, side wall or roof panels which have asymmetric slots on either end and a groove along one edge and a rectangular roof beam having vertical hook-like **connectors** spaced along the outside wall of the beam. When the spacers are interlocked with two of the side wall panels, a cavity is formed which can be filled with sand to provide a more rigid and solid shelter. For overhead cover, two or more beams span the walls and the panels interlock with the hook-like **connectors** along the outside of the beams to form the roof. The panels interlock horizontally by the grooves and overlap at the hook. Sand or sandbags can be piled on the roof to give additional protection. Claims, 7 Drawing Figures

Classifications:

International (IPC 8-9): E04B1/343 E04B2/40

E04H9/10 (Advanced/Invention);

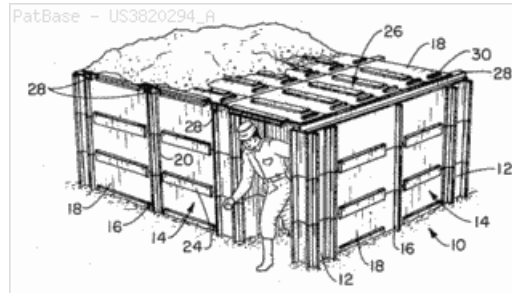
E04B1/343 E04B2/28 E04H9/04 (Core/Invention)

International (IPC 1-7): E04B2/18 E04H9/00 F41H11/00

CPC: E04B1/34315 E04B2/40 E04H9/10

European: E04B1/343C E04B2/40 E04H9/10

US: 446/115 52/262 52/271 52/309.1 52/483.1



Family:

Publication number	Publication date	Application number	Application date
US3820294 A	19740628	US19730381468	19730723

Priority:

US19730381468 19730723

Probable Assignee:

PARKER C

Assignee(s): (std):

PARKER C

Assignee(s):

PARKER C US

Inventor(s): (std):

PARKER C

Inventor(s):

PARKER C US

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US3820294 A	19740628	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: **MODULAR** ROOM SYSTEM AND METHOD

Abstract: Some embodiments of the present invention employ a **modular** room including a plurality of **modular** room components (e.g., anchor assemblies, upright assemblies, etc.). These anchor assemblies and upright assemblies can take different forms permitting assembly of a **modular** room or **modular** structure in different manners, and in some cases provide for interchangeable interior and exterior wall panels and components. In some embodiments, a bracket assembly is coupled to an substantially vertical elongated upright for improved strength and stability. Preferably, the anchor assembly has a base plate with at least one edge at an angle with respect to the rest of the base plate for additional strength. If desired, the vertical position of the upright with respect to the base plate can be adjusted. In some embodiments, one or more overhead trusses are used to stabilize the walls of a **modular** room.

Classifications:

International (IPC 8-9): A47F10/00 E02D27/42 E04B2/74 E04H1/00 E04H1/12 E04H12/22 E04H14/00 E04H3/00 E04H5/00 E04H6/00 (Advanced/Invention);

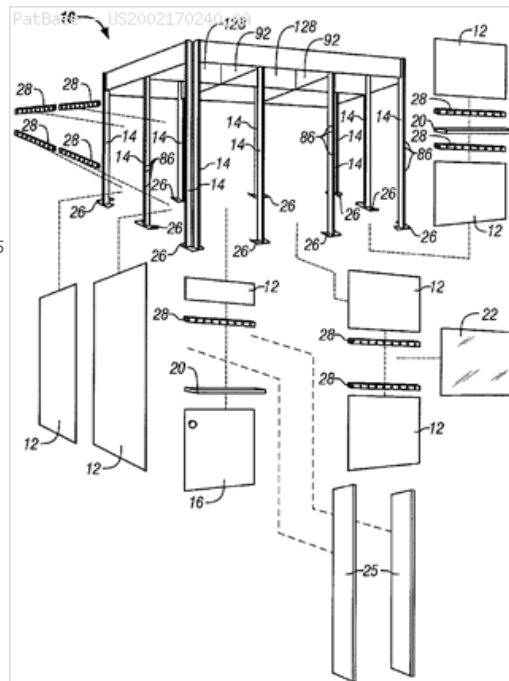
E04B (Subclass/Invention)

International (IPC 1-7): A47F10/00 E02D27/42 E04B E04B0/00 E04H1/00 E04H14/00 E04H3/00 E04H5/00 E04H6/00

CPC: E04B2/7433 E04B2002/7483 E04B2002/7487 E04H1/125 E04H12/2276

European: E04B2/74C3E E04H1/12C E04H12/22C3 P04B2/74P P04B2/74Q

US: 160/239 248/519 52/126.4 52/239 52/298 52/36.1 52/36.100 52/36.5 52/481.2



Family:

Publication number	Publication date	Application number	Application date
AU2002311887 AA	20021118	AU20020311887	20020506
CA2446954 AA	20031106	CA20022446954	20020506
MXPA03010846 A1	20041122	MX2003PA10846	20020506
US2002170240 AA	20021121	US20020139847	20020506
US2004118054 AA	20040624	US20030702339	20031106
US2007193124 AA	20070823	US20070656815	20070123
US6786017 BB	20040907	US20020139847	20020506
US7165360 BB	20070123	US20030702339	20031106
WO02090678 A2	20021114	WO2002US14353	20020506
WO02090678 A3	20030724	WO2002US14353	20020506

Priority:

US20010289263P 20010507 US20020139847 20020506 WO2002US14353 20020506
US20030702339 20031106 US20070656815 20070123

Probable Assignee: LOZIER STORE FIXTURES LLC

Assignee(s): (std): L AND P PROPERTY MAN ; L AND P PROPERTY MAN CO ; L AND P PROPERTY MAN COMPANY ; THOMPSON STEVEN C ; L AND P PROPERTY MANAGEMENT CO

Assignee(s): L AND P PROPERTY MANAGEMENT ; P PROPERTY MANAGEMENT COMPANY ; L AND P PROPERTY MANAGEMENT COMPANY ; LOZIER STORE FIXTURES LLC ; SFU LLC ; L AMP AMP

Inventor(s): (std): STEVEN C THOMPSON ; THOMPSON STEVEN C

Inventor(s): THOMPSON STEVEN

Agent(s): BERESKIN AND PARR; MICHAEL BEST AND FRIEDRICH LLP; MICHAEL BEST AND FREDRICH

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC 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 ZM ZW

Legal status (INPADOC)

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

AU2002311887 AA	20021118	LSPB	+	published / reissued	
AU2002311887 AA	20040226	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2) (F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
CA2446954 AA	20031106	LSPB	+	published / reissued	
CA2446954 AA	20040312	LSSES	+EEER	EXAMINATION REQUEST	
CA2446954 AA	20070507	LSLE	-FZDE	DEAD	
MXPA03010846 A1	20041122	LSPB	+	published / reissued	
MXPA03010846 A1	20070215	LSGT	+FG	GRANT OR REGISTRATION	
US2002170240 AA	20021121	LSPB	+	published / reissued	
US2004118054 AA	20040624	LSPB	+	published / reissued	
US2007193124 AA	20070823	LSPB	+	published / reissued	
US2007193124 AA	20070423	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : L & P PROPERTY MANAGEMENT COMPANY, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:THOMPSON, STEVEN C.; REEL/FRAME:019191/0893 EFFECTIVE DATE : 20040109
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US6786017 BB	20020722	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : L & P PROPERTY MANAGEMENT COMPANY, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:THOMPSON, STEVEN C.; REEL/FRAME:013115/0737 EFFECTIVE DATE : 20020710
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US6786017 BB	20080208	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6786017 BB	20120321	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6786017 BB	20150326	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SFU, LLC, MISSOURI OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:L & P PROPERTY MANAGEMENT COMPANY; REEL/FRAME:035261/0796 EFFECTIVE DATE : 20141031
US6786017 BB	20150326	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LOZIER STORE FIXTURES, LLC, NEBRASKA OLDPARTY : MERGER; ASSIGNOR:SFU, LLC; REEL/FRAME:035261/0950 EFFECTIVE DATE : 20141118
US6786017 BB	20150330	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SFU, LLC, MISSOURI OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:L & P PROPERTY MANAGEMENT COMPANY; REEL/FRAME:035290/0859 EFFECTIVE DATE : 20141031
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US6786017 BB	20161003	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees	

Under 37 CFR 1.362					
US6786017 BB	20161003	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6786017 BB	20161025	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160907
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US7165360 BB	20040217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : L & P PROPERTY MANAGEMENT COMPANY, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:THOMPSON, STEVEN C.; REEL/FRAME:014978/0153 EFFECTIVE DATE : 20040109
US7165360 BB	20080212	LSRE	CC	CERTIFICATE OF CORRECTION	
US7165360 BB	20110123	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
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WO02090678 A3	20031127	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2003/010846 COUNTRY OF REF DOCUMENT : MX
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WO02090678 A3	20060418	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO02090678 A3	20060418	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : JP

Title: PREFORMED FORMWORK FOR FORMING CONCRETE FLOOR SLAB FOR A HEIGHT ADJUSTABLE SHIPPING CONTAINER **BUILDING** STRUCTURE

Abstract: A preformed formwork for forming concrete floor slab for a height adjustable shipping container **building** structure having spaced apart frame side beams, spaced apart end beams and fork lifting supports. Reinforcing is situated within the internal area of the frame and attached to the side and end beams. A wall receiving feature on the external surface of the side and end beams accommodates attaching a portion of wall panel to the end and side beams. Columns are supported at the corners of the frame. The preformed formwork is dimensioned to equal the floor area of a shipping container so the preformed formwork is able to be easily transported within a height adjustable shipping container containing **building** components and able to be readily and easily erected and assembled as either a ground floor or upper level floor of a **building** structure prior to been formed in to a concrete slab.

Classifications:

International (IPC 8-9): B28B13/00 B65D B65D88/00 B65D88/12 B65D90/00 B65D90/02 B65D90/06 B65D90/20 E04B E04B1/16 E04B1/18 E04B1/343 E04B1/344 E04B1/348 E04B1/36 E04B5/16 E04B5/36 E04C3/30 E04G E04G11/36 E04H E04H1/00 E04H1/12 E04H5/00 E04H9/16 (Advanced/Invention);

E04B1/348 E04H1/12 (Advanced/Non-invention);

E04B1/343 E04G11/36 E04H1/00 E04H5/00 (Core/Invention);

E04B E04G (Subclass/Invention)

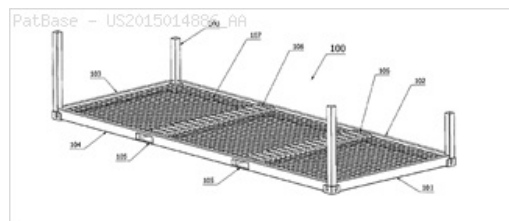
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B65D90/06 E04H1/12 E04H9/16 E04B1/34336 E04B1/34305

E04H2001/1283 B65D88/005 E04B1/3431 E04B1/3442 E04B1/3483 E04B2001/34389 E04B2001/34876 E04B2001/34884

Y10T29/49826 E04H1/005 E04H1/1205 B65D88/12 E04G11/36

US: 1/1 220/1.5 220/4.03 220/8 249/13 264/299 29/428 52/79.5



Family:

Publication number	Publication date	Application number	Application date
AP201407849 A0	20140831	AP20140007849	20130215
AP201407851 A0	20140831	AP20140007851	20130212
AU2013211507 AA	20130905	AU20130211507	20130215
AU2013211507 BB	20150618	AU20130211507	20130215
AU2013220923 AA	20130822	AU20130220923	20130212
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CA2864601 AA	20140814	CA20132864601	20130215
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JP2015511910 T2	20150423	JP20140556885T	20130215
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PE22022014 A1	20150110	PE20140001277	20130215

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PH2014501858 A	20141117	PH20140501858	20140815
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SG11201404476U A1	20141030	SG20141104476	20130212
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TN2014000334 A1	20151221	TN20140000334	20140804
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US2015028025 AA	20150129	US20130379217	20130215
US2015034634 AA	20150205	US20130379220	20130212
US9067721 BB	20150630	US20130379220	20130212
US9248957 BB	20160202	US20130379217	20130215
WO13120129 A1	20130822	WO2013AU00117	20130212
WO13120136 A1	20130822	WO2013AU00127	20130215
WO13120138 A1	20130822	WO2013AU00129	20130215
ZA201406745 A	20160831	ZA20140006745	20130215
ZA201406746 A	20160525	ZA20140006746	20130212

Priority:

AU20120900570 20120217 WO2013AU00117 20130212 AU20130220923 20130212
AU20130211507 20130215 WO2013AU00127 20130215 WO2013AU00129 20130215

Probable Assignee: LIFTING POINT PTY LTD

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Inventor(s): (std): BRUCE MULLANEY NICHOLAS ; HOWELL JAMES RICHARD ; MULLANEY NICHOLAS BRUCE ; MULLANY NICHOLAS BRUCE ; NICHOLAS BRUCE MULLANEY

Inventor(s): MULLANEY NICHOLAS BRUCEAU

Agent(s): PIPERS; GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; ESTUDIO CAREY LTDA; MAURICIO JARAMILLO CAMPUZANO; LLOYD ROBIN; GEORGE WIDJOJO SH; GEORGE WIDJOJO AND PARTNERS; KITA AOYAMA INT PATENT BUREAU; BROOKS KUSHMAN PC; ROBERTSON THOMAS GEORGE 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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2013211507 AA	20130905	LSPB	+	published / reissued	
AU2013211507 BB	20150618	LSGT	+	granted / extensions (spc, cpc, pte)	
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AU2013211507 BB	20330215	PEXP		Calculated Patent Term Expiry	
AU2013220923 AA	20130822	LSPB	+	published / reissued	
AU2013220923 BB	20170907	LSGT	+	granted / extensions (spc, cpc, pte)	
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CA2864601 AA	20180222	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20180214
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CL2014002186 A1	20150102	LSPB	+	published / reissued	
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CN104114784 A	20170808	LSDW	-WD01	INVENTION PATENT APPLICATION DEEMED WITHDRAWN AFTER PUBLICATION	
CN104136692 A	20141105	LSPB	+	published / reissued	
CN104136692 A	20141105	LSPB	+C06	PUBLICATION	
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CO7071113 A2	20140930	LSPB	+	published / reissued	
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KR20140128424 A	20180316	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
KR20140143753 A	20141217	LSPB	+	published / reissued	
KR20140143753 A	20180313	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
MX2014009841 A1	20150413	LSPB	+	published / reissued	
MX2014009843 A1	20150908	LSPB	+	published / reissued	
NZ628158 A	20161223	LSPB	+	published / reissued	
NZ628158 A	20170331	LSGT	+PSEA	PATENT SEALED	
NZ628158 A	20170331	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 15 FEB 2020 BY GRIFFITH HACK EFFECTIVE DATE : 20170328
NZ628172 A	20160729	LSPB	+	published / reissued	
NZ628172 A	20161125	LSGT	+PSEA	PATENT SEALED	
NZ628172 A	20170127	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 12 FEB 2018 BY GRIFFITH HACK EFFECTIVE DATE : 20170112
NZ628172 A	20180126	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 12 FEB 2019 BY GRIFFITH HACK EFFECTIVE DATE : 20180112
PE22012014 A1	20150110	LSPB	+	published / reissued	
PE22012014 A1	20170921	LSWD	-FD	APPLICATION DECLARED VOID OR LAPSED	
PE22022014 A1	20150110	LSPB	+	published / reissued	
PE22022014 A1	20170921	LSWD	-FD	APPLICATION DECLARED VOID OR LAPSED	
PH2014501856 A	20141117	LSPB	+	published / reissued	
PH2014501856 B	20141117	LSGT	+	granted / extensions (spc, cpc, pte)	
PH2014501858 A	20141117	LSPB	+	published / reissued	
PH2014501858 B	20141117	LSGT	+	granted / extensions (spc, cpc, pte)	
SG11201404471Q A1	20140926	LSPB	+	published / reissued	
SG11201404476U A1	20141030	LSPB	+	published / reissued	
TH151848 A	20160622	LSPB	+	published / reissued	
TH152614 A	20160527	LSPB	+	published / reissued	
TN2014000332 A1	20151221	LSPB	+	published / reissued	
TN2014000334 A1	20151221	LSPB	+	published / reissued	
US2015014886 AA	20150115	LSPB	+	published / reissued	
US2015014886 AA	20140818	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFTING POINT PTY LTD, AUSTRALIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MULLANEY, NICHOLAS BRUCE; REEL/FRAME:033551/0722 EFFECTIVE DATE : 20140619
US2015014886 AA	20170829	LSES	NFA1	Non Final Action Mailed	

US2015014886 AA	20181001	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2015028025 AA	20150129	LSPB	+	published / reissued	
US2015028025 AA	20140818	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFTING POINT PTY LTD, AUSTRALIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MULLANEY, NICHOLAS BRUCE; HOWELL, JAMES RICHARD; REEL/FRAME:033551/0675 EFFECTIVE DATE : 20140620
US2015034634 AA	20150205	LSPB	+	published / reissued	
US9067721 BB	20150630	LSGT	+	granted / extensions (spc, cpc, pte)	
US9067721 BB	20140818	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFTING POINT PTY LTD, AUSTRALIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MULLANEY, NICHOLAS BRUCE; REEL/FRAME:033551/0771 EFFECTIVE DATE : 20140619
US9067721 BB	20150610	LSGT	PAT1	Patented Case	
US9067721 BB	20181204	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US9067721 BB	20330212	PEXP		Calculated Patent Term Expiry	
US9248957 BB	20160202	LSGT	+	granted / extensions (spc, cpc, pte)	
US9248957 BB	20150928	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US9248957 BB	20160113	LSGT	PAT1	Patented Case	
US9248957 BB	20330215	PEXP		Calculated Patent Term Expiry	
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WO13120129 A1	20140805	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : P873/2014 COUNTRY OF REF DOCUMENT : AE
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WO13120129 A1	20140811	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 234069 COUNTRY OF REF DOCUMENT : IL
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WO13120129 A1	20140814	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2864597 COUNTRY OF REF DOCUMENT : CA
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WO13120129 A1	20140815	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14379220 COUNTRY OF REF DOCUMENT : US

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WO13120129 A1	20140818	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
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WO13120136 A1	20130822	LSPB	+	published / reissued	
WO13120136 A1	20130801	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2013211507 COUNTRY OF REF DOCUMENT : AU
WO13120136 A1	20140808	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2013748564 COUNTRY OF REF DOCUMENT : EP
WO13120136 A1	20140811	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 234068 COUNTRY OF REF DOCUMENT : IL
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WO13120136 A1	20140814	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2864601 COUNTRY OF REF DOCUMENT : CA
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WO13120136 A1	20140815	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 001277-2014 COUNTRY OF REF

WO13120136 A1	20140815	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	DOCUMENT : PE REF DOCUMENT NUMBER : 12014501858 COUNTRY OF REF DOCUMENT : PH
WO13120136 A1	20140815	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14379219 COUNTRY OF REF DOCUMENT : US
WO13120136 A1	20140817	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : P874/2014 COUNTRY OF REF DOCUMENT : AE
WO13120136 A1	20140818	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13120136 A1	20140826	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 201491439 COUNTRY OF REF DOCUMENT : EA
WO13120136 A1	20140911	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20147025382 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
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WO13120136 A1	20170620	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 112014019947 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20140812
WO13120138 A1	20130822	LSPB	+	published / reissued	
WO13120138 A1	20140813	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2014556885 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO13120138 A1	20140815	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14379217 COUNTRY OF REF DOCUMENT : US
WO13120138 A1	20140818	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13120138 A1	20150311	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 13749678 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
ZA201406745 A	20160831	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201406745 A	20340914	PEXP		Calculated Patent Term Expiry	
ZA201406746 A	20160525	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201406746 A	20330211	PEXP		Calculated Patent Term Expiry	

Title: **Building** panel and method

Abstract: A joint, in one embodiment between adjacent panels of sheet encased insulating material in which one lateral edge has an essentially frustoconical nose, and the other edge has a frustoconical pocket as disclosed. In an alternative embodiment, essentially frustoconical noses are at both lateral edges and the two adjacent panels are joined by means of an I-beam embodying the interlock of the present invention. In both embodiments, the interlocking relationship is a function of the lateral edges of the cladding sheet, or the flange of an I-beam, in which one edge has a sealant pocket, and the opposite edge has a locking sealant press with a reversely bent stabilizer. The method of the invention contemplates the steps of providing adjacent **building** panels with sealant pockets in a seal press, and thereafter filling the sealant pocket with a predetermined amount of sealant to the end that when the joints are compressed together, there will be sufficient excess sealant material to be extruded by the sealant press lock to form gaskets or fins between the sidewalls of the sealant pocket and the sidewalls of the locking sealant press.

Classifications:

International (IPC 8-9): E04B1/61 E04B2/00 E04B7/00

E04C2/292 (Advanced/Invention);

E04B1/61 E04C2/26 (Core/Invention)

International (IPC 1-7): E04B1/00 E04B1/61 E04B1/68 E04B1/80

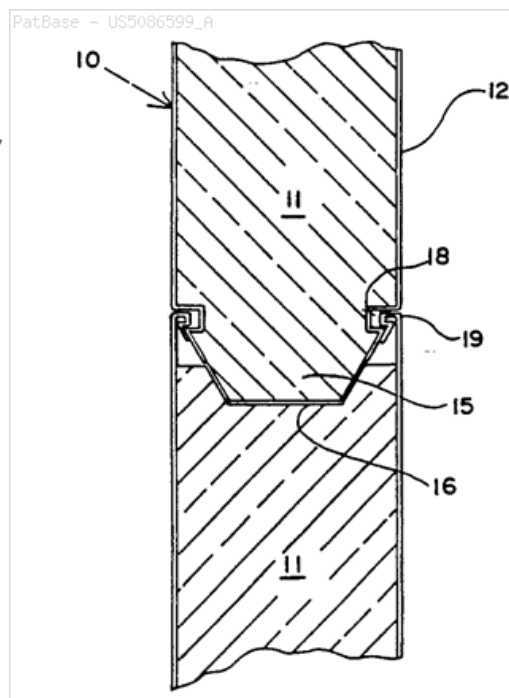
E04B1/90 E04B2/00 E04B2/72 E04B7/00 E04B9/04 E04C1/14 E04C2/26

CPC: E04C2/292 E04B1/617 E04F2201/0115 E04F2201/0517 E04F2201/07 Y10T29/49634

European: E04B1/61D3D1 E04C2/292 P04F201/01A1 P04F201/05C P04F201/07

US: 29/897.35 52/309.9 52/586.2 52/592.6 52/72 52/733.4 52/741.4

52/745.21 52/779 52/780 52/781 523/99



Family:

Publication number	Publication date	Application number	Application date
AU199175299 A1	19911107	AU19910075299	19910423
AU626781 B2	19920806	AU19910075299	19910423
CA2041151 AA	19911025	CA19912041151	19910424
CA2041151 C	20010807	CA19912041151	19910424
GB2243381 A1	19911030	GB19910008244	19910417
GB2243381 B2	19940713	GB19910008244	19910417
GB9108244 A0	19910605	GB19910008244	19910417
US5086599 A	19920211	US19900513922	19900424
US5216861 A	19930608	US19910725190	19910703

Priority:

US19900481607 19900215 US19900513922 19900424 CA19912041151 19910424
US19910725190 19910703

Probable Assignee: STRUCTURAL PANELS INC

Assignee(s): (std): STRUCTURAL PANELS INC

Assignee(s): MEYERSON STEVEN C

Inventor(s): (std): MEYERSON STEPHEN C ; MEYERSON STEVEN C

Inventor(s): NAME NOT GIVEN ; STEPHEN C MEYERSON ; STEVEN C MEYERSON

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; DENNISON ASSOCIATES

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199175299 A1	19911107	LSPB	+	published / reissued	
AU626781 B2	19920806	LSGT	+	granted / extensions (spc, cpc, pte)	

AU626781 B2	20110423	PEXP		Calculated Patent Term Expiry	
CA2041151 AA	19911025	LSPB	+	published / reissued	
CA2041151 AA	19970422	LSES	+EEER	EXAMINATION REQUEST	
CA2041151 C	20010807	LSGT	+	granted / extensions (spc, cpc, pte)	
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CA2041151 C	20110424	PEXP		Calculated Patent Term Expiry	
GB2243381 A1	19911030	LSPB	+	published / reissued	
GB2243381 B2	19940713	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2243381 B2	20001206	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20000417
GB2243381 B2	20110417	PEXP		Calculated Patent Term Expiry	
US5086599 A	19920211	LSGT	+	granted / extensions (spc, cpc, pte)	
US5086599 A	19900424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : STRUCTURAL PANELS, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:MEYERSON, STEVEN C.; REEL/FRAME:005298/0075 EFFECTIVE DATE : 19900417
US5086599 A	19920131	LSGT	PAT1	Patented Case	
US5086599 A	19920131	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5086599 A	19950712	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5086599 A	19990823	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5086599 A	20031105	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5086599 A	20100424	PEXP		Calculated Patent Term Expiry	
US5216861 A	19930608	LSGT	+	granted / extensions (spc, cpc, pte)	
US5216861 A	19910703	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : STRUCTURAL PANELS, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:MEYERSON, STEVEN C.; REEL/FRAME:005768/0883 EFFECTIVE DATE : 19900417
US5216861 A	19930528	LSGT	PAT1	Patented Case	
US5216861 A	19930528	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5216861 A	19961015	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5216861 A	20010405	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5216861 A	20050608	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5216861 A	20110703	PEXP		Calculated Patent Term Expiry	

Title: **MODULAR** PANELING SYSTEM

Abstract: A panel carrier for supporting a panel (3) of a **modular** paneling system having, along one side (23), an undercut channel region (43) facing inwardly of the panel (3). The panel carrier (61) includes a top portion (71) for mounting to an architectural structure (5), a hook portion (65) and a base portion (69). The base portion (69) extends from the top portion (71) to an end of the hook portion (65) so as to support the hook portion (65). The hook portion (65) is C-shaped in cross-section so as to form an open side and a closed side. The base portion (69) supports the hook portion (65) such that the closed side fits into the undercut channel region (43) of the panel (3).

Classifications:

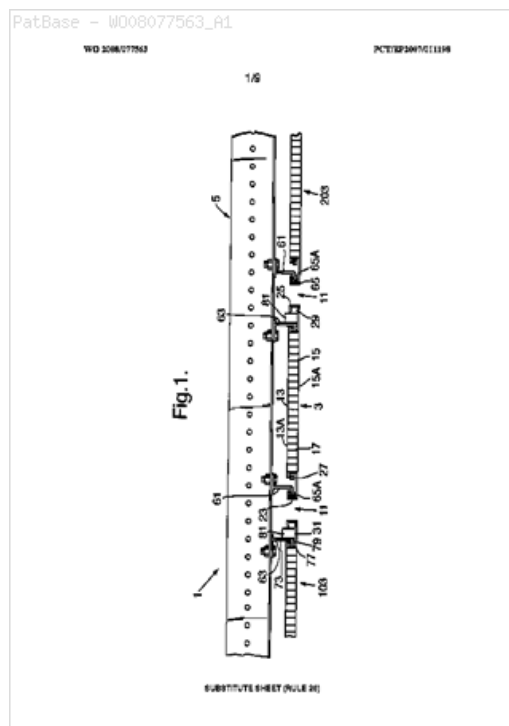
International (IPC 8-9): E04B2/56 E04B9/00 E04B9/06 E04B9/24 E04B9/26 E04B9/28 E04F13/08 (Advanced/Invention);

E04B9/22 E04F13/08 (Core/Invention)

International (IPC 1-7): E04B2/74 E04B9/06 E04B9/22 E04B9/24 E04F13/08

CPC: E04B9/24 E04F13/0 E04F13/0819 E04B9/26 E04B9/245 E04B9/28

European: E04B9/24D E04B9/26 E04B9/28 E04F13/08B2C6



Family:

Publication number	Publication date	Application number	Application date
AR064667 AA	20090415	AR2007P105836	20071221
BRPI0720602 A2	20140318	BR2007PI20602	20071219
CL2007003789 A1	20080829	CL20070003789	20071221
CO6220868 A2	20101119	CO20090064948	20090623
MX2009006807 A1	20090703	MX20090006807	20071219
TW200837257 A	20080916	TW20070149589	20071221
WO08077563 A1	20080703	WO2007EP11198	20071219

Priority:

EP20060026645 20061222 EP20070000233 20070108 WO2007EP11198 20071219

Probable Assignee: HUNTER DOUGLAS IND BV

Assignee(s): (std): FANG LI PING ; HUNTER DOUGLAS IND BV

Assignee(s): HUNTER DOUGLAS INDUSTRIES B V

Inventor(s): (std): FANG LI PING

Inventor(s): LI PING ; LI PING FANG ; FANG

Agent(s): SARGENT; LUZ CLEMENCIA DE PAEZ; SMITH SAMUEL LEONARD ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC 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
AR064667 AA	20090415	LSPB	+	published / reissued	
AR064667 AA	20101230	LSWD	-FB	SUSPENSION OF GRANTING PROCEDURE	
BRPI0720602 A2	20161025	LSFE	-B08F	APPLICATION FEES: DISMISSAL -	TEXT : REFERENTE

BRPI0720602 A2	20170214	LSLE	-B08K	ARTICLE 86 OF INDUSTRIAL PROPERTY LAW LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	A 9A ANUIDADE.
CL2007003789 A1	20080829	LSPB	+	published / reissued	
CO6220868 A2	20101119	LSPB	+	published / reissued	
CO6220868 A2	20130826	LSGT	+FG	APPLICATION GRANTED	
MX2009006807 A1	20090703	LSPB	+	published / reissued	
MX2009006807 A1	20190131	LSWD	-FA	ABANDONMENT OR WITHDRAWAL	
TW200837257 A	20080916	LSPB	+	published / reissued	
WO08077563 A1	20080703	LSPB	+	published / reissued	
WO08077563 A1	20090622	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2009/006807 COUNTRY OF REF DOCUMENT : MX
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WO08077563 A1	20100224	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 07856921 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
WO08077563 A1	20140318	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0720602 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20090622

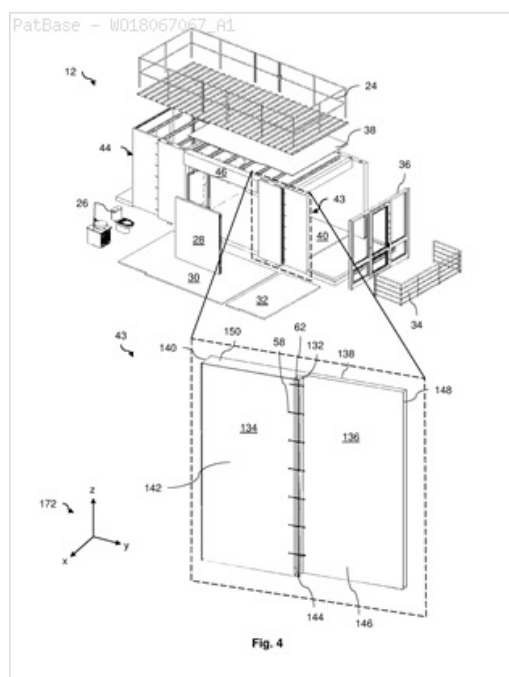
Title: PREFABRICATED PREFINISHED VOLUMETRIC **CONSTRUCTION** MODULE

Abstract: A prefabricated prefinished volumetric **construction** (PPVC) module which forms a six-sided polygonal unit comprises a slab, a plurality of combined walls, at least a facade, a wall and a ceiling. The PPVC module is **constructed** in a manufacturing plant and assembled at a remote site. The PPVC module is equipped with internal fittings comprising partition walls, bathroom fittings, electrical wiring and water piping.

Classifications:

International (IPC 8-9): E04B1/61 E04B2/00 E04C2/00
F16B5/07 (Advanced/Invention)

CPC: E04B1/34823 E04B1/003 E04B1/046 E04B2001/34892 E04C2/04
E04C2/38



Family:

Publication number	Publication date	Application number	Application date
SG10201608260Q A1	20180530	SG20161008260	20161003
SG10201609258R A1	20180530	SG20161009258	20161104
SG11201803841U A1	20180628	SG20181103841	20170928
WO18067067 A1	20180412	WO2017SG50487	20170928

Priority:

SG20161008260 20161003 SG20161009258 20161104 WO2017SG50487 20170928

Probable Assignee: VICO CONSTRUCTION PTE LTD

Assignee(s): (std): VICO CONSTRUCTION PTE LTD

Inventor(s): (std): CHEN YUEFENG ; KANG JIANHAN ; ZUO HAIBIN

Agent(s): SYNERGY IP PTE LTD

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
SG10201608260Q A1	20180530	LSPB	+	published / reissued	
SG10201609258R A1	20180530	LSPB	+	published / reissued	
SG11201803841U A1	20180628	LSPB	+	published / reissued	
WO18067067 A1	20180412	LSPB	+	published / reissued	
WO18067067 A1	20180507	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11201803841U COUNTRY OF REF DOCUMENT : SG
WO18067067 A1	20190404	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

Title: CEILING SYSTEM WITH TECHNOLOGY

Abstract: A ceiling system (100) is disclosed, and illustrated in various embodiments as may be utilized within an architectural interior (102). The ceiling system (100) includes shielding elements (116) supported through the use of parallel and spaced apart rails (118). The rails are suspended through the use of suspension cables (121) to overhead building supports. The shielding elements (116) include coverings (121) of varying translucence for a series of LED lighting modules (122) or other lighting elements. The varying degrees of translucency of the shielding elements (116) provides for adjustment of intensity and diffusion of lighting projecting from the LED lighting modules (122) or other lighting elements.

Classifications:

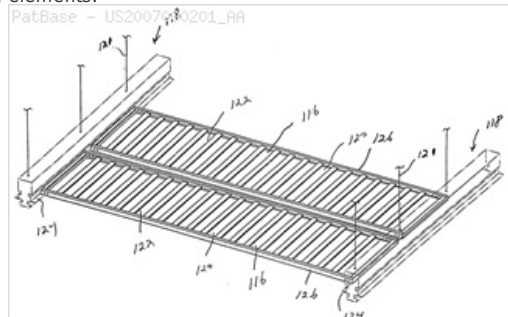
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International (IPC 1-7): E04B0/00 E04B1/00 E04B9/00 E04B9/32 F21S8/06

CPC: F21Y2103/10 F21Y2105/10 F21Y2115/10 F21S2/00 F21S8/06 F21V5/00 F21V21/15 E04B9/064 E04B9/00 E04B9/006 E04B9/18 E04B9/245 E04B9/32 E04B9/34 E04B9/366 F21S2/005 F21S8/061 F21V1/14 F21V11/00 F21V23/0435 F21V33/006 F21Y2103/00 F21Y2113/00

European: E04B9/00 E04B9/00D E04B9/06E E04B9/18 E04B9/24D E04B9/32 E04B9/34 E04B9/36B F21S2/00 F21S2/00A F21S8/06 F21S8/06A F21V1/14 F21V11/00 F21V21/15 F21V33/00B F21V5/00 R21V23/04R R21Y101/02 R21Y103/00 R21Y103/00D R21Y105/00D

US: 52/506.06 52/506.060P

**Family:**

Publication number	Publication date	Application number	Application date
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AU2003272261 AH	20040329	AU20030272261	20030904
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CA2497608 AA	20050302	CA20032497608	20030904
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EP1579084 A4	20090325	EP20030754435	20030904
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WO04022874 A1	20040318	WO2003US27828	20030904
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Priority:

US20020408183P 20020904 US20030526514 20030904 WO2003US27828 20030904
 WO2003US27535 20030904 US20060526514 20060522

Probable Assignee: HERMAN MILLER INC

Assignee(s): (std): BECKMANN WALTRAUD ; CHOE SENAN ; HILLIS DANIEL W ; HILLIS W D ; HO JOSEPH CHI CHEN ; HOWE RUSSEI ; MILLER HERMAN INC ; KENNEDY SHEILA ; YEN BILL CHEN HSUN ; HOWE RUSSEL

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Inventor(s): HILLIS W DANIEL ; HILLIS W

Agent(s): BORDEN LADNER GERVAIS LLP; VARNUM RIDDERING SCHMIDT AND HOWLETT LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2003270337 AA	20040329	LSPB	+	published / reissued	
AU2003270337 AA	20050623	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL	

PHASE					
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					REEL/FRAME:017102/0768 EFFECTIVE DATE : 20050411
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Title: PARTITION SYSTEM

Abstract: A partition system may include one or more panels. A panel may be **constructed** using blow-molded plastic. A panel may include one or more depressions, which may be aligned with one or more depressions on an opposing side of the panel. The depressions may provide additional structural integrity for a panel. The depressions on opposing sides of the panel may extend toward and engage each other. The panels may include patterns with which one or more depressions may intersect. The panels may include symmetric patterns on opposing sides. The partition system may include one or more **connectors** adapted to receive a portion of one or more panels. The partition system may include one or more feet that may be attached to one or more panels. The panels may include one or more reinforcing members of various shapes disposed proximate one or more edges of a panel.

Classifications:

International (IPC 8-9): A47B13/08 B65D6/00 B65D85/00 B66B9/00 E04B1/12 E04B1/343 E04B1/344 E04B1/346 E04B2/74 E04B2/76 E04B5/00 E04B5/04 E04B7/02 E04B7/04 E04B7/16 E04B7/20 E04C2/00 E04C2/20 E04C2/22 E04C2/26 E04C2/30 E04C2/32 E04C2/40 E04C2/54 E04D13/17 E04D3/32 E04D3/35 E04D3/40 E04F11/16 E04F13/00 E04F15/00 E04F15/02 E04F15/10 E04F19/00 E04H1/00 E04H1/12 E04H14/00 E04H17/16 E04H3/00 E04H5/00 E04H6/00 E04H7/00 E04H9/00 E06B3/20 E06B3/36 E06B3/70 E06B5/00 E06B5/02 F16S1/00 F16S1/02 H01B17/32 H01B17/60 (Advanced/Invention);

E04B1/61 (Advanced/Non-invention);

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E04B (Subclass/Invention)

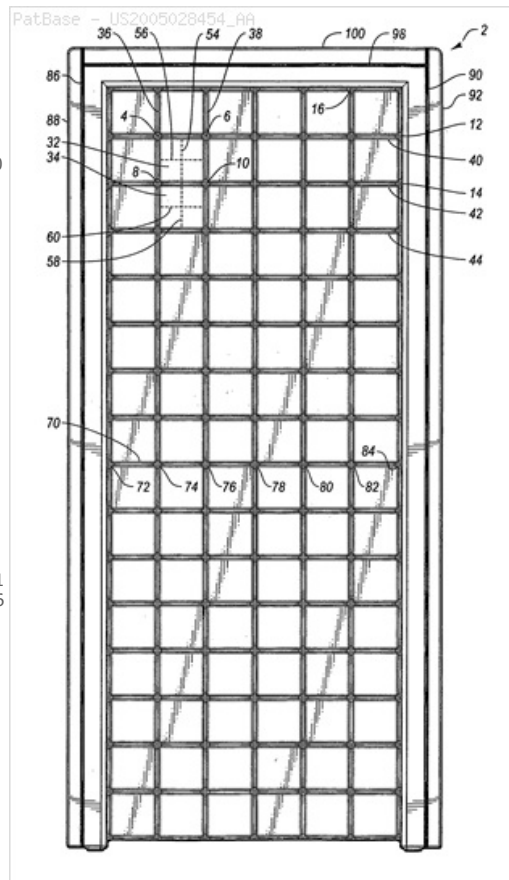
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US: 428/35.7 428/35.700P 52/198 52/262 52/270 52/271 52/272 52/302.3 52/309.1 52/309.100S 52/311.1 52/311.100S 52/32 52/36.1 52/36.100P 52/580 52/580P 52/591.4 52/598 52/630 52/64 52/64P 52/782.1 52/782.100S 52/782.22 52/782.220P 52/783.1 52/789.1 52/79.1 52/79.100P 52/79.100S 52/79.12 52/79.120P 52/79.5 52/79.500P 52/79.6 52/79.9 52/79.900P 52/79.900S 52/795.1 52/795.100S 52/93.2 D25/59 D6/332

Locarno class: 25/02 25/03 08/08 06/06

**Family:**

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US20100702208	20100208	US20100886456	20100920	US20120424299	20120319

Probable Assignee: LIFETIME PRODUCTS INC

Assignee(s): (std): ASHBY KENT ; ASTLE ROBERT A ; CALKEN JAY ; CALKIN JAY ; HOWE RICH ; LIFETIME PROD INC ; LIFETIME PRODUCTS INC ; STEED BRENT ; MOWER BARRY D ; WATSON NEIL ; WINTER DAVID C ; STRONG L C ; NYE TROY W ; STRONG L CURTIS

Assignee(s): STRONG CURTIS L ; NYE TROY WILLIAM

Inventor(s): (std): ASHBY KENT ; ASTLE ROBERT ; ASTLE ROBERT A ; HOWE RICH ; KENT STEED BRENT CALKIN JAY AS ; MOWER BARRY D ; MOWER BARRY D STEED BRENT CALK ; MOWER DAVID ; NYE TROY W ; NYE TROY WILLIAM ; ROB MOWER BARRY D STEED BRENT ; STRONG CURTIS L ; STRONG L C ; STRONG L CURTIS ; WINTER DAVID C ; STEED BRENT ; RICH HOWE ; NEIL WATSON ; KENT ASHBY ; JAY CALKIN ; WATSON NEIL ; CALKIN JAY ; BRENT STEED ; CALKEN JAY

Inventor(s): WINTER DAVID ; DAVID MOWER ; TROY WILLIAM NYE ; STRONG L ; STEED BRENT CALKIN JAY ASHBY KENT ; NYE TROY ; MOWER BARRY D STEED BRENT CALKIN JAY WATSON NEIL A ; MOWER BARRY

Agent(s): CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; WORKMAN NYDEGGER F K A WORKMAN NYDEGGER AND SEELEY; WORKMAN NYDEGGER, (F/K/A WORKMAN NYDEGGER AND SEELEY); WORKMAN NYDEGGER,1000 EAGLE GATE TOWER; WORKMAN NYDEGGER; GILMORE RICHARD C

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA108260 S	20060809	LSGT	+	granted / extensions (spc, cpc, pte)	
CA108260 S	20160809	PEXP		Calculated Patent Term Expiry	
CA108261 S	20060809	LSGT	+	granted / extensions (spc, cpc, pte)	
CA108261 S	20160809	PEXP		Calculated Patent Term Expiry	
CA108262 S	20060809	LSGT	+	granted / extensions (spc, cpc, pte)	
CA108262 S	20160809	PEXP		Calculated Patent Term Expiry	
CA2525098 AA	20051020	LSPB	+	published / reissued	
CA2525098 AA	20051107	LSES	+EEER	EXAMINATION REQUEST	
CA2525098 C	20110531	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2525098 C	20250329	PEXP		Calculated Patent Term Expiry	
CA2525709 AA	20051013	LSPB	+	published / reissued	
CA2525709 AA	20051108	LSES	+EEER	EXAMINATION REQUEST	
CA2525709 C	20130205	LSGT	+	granted /	

				extensions (spc, cpc, pte)
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CA2525711 AA	20051013	LSPB	+	published / reissued
CA2525711 AA	20051108	LSSES	+EEER	EXAMINATION REQUEST
CA2525711 C	20091103	LSGT	+	granted / extensions (spc, cpc, pte)
CA2525711 C	20250329	PEXP		Calculated Patent Term Expiry
CA2525833 AA	20051013	LSPB	+	published / reissued
CA2525833 AA	20051110	LSSES	+EEER	EXAMINATION REQUEST
CA2525833 C	20110510	LSGT	+	granted / extensions (spc, cpc, pte)
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CA2526922 AA	20051020	LSPB	+	published / reissued
CA2526922 AA	20051109	LSSES	+EEER	EXAMINATION REQUEST
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CA2526923 AA	20051109	LSSES	+EEER	EXAMINATION REQUEST
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CA2526923 C	20250329	PEXP		Calculated Patent Term Expiry
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CA2526931 AA	20170510	LSLE	-MKLA	LAPSED EFFECTIVE DATE : 20170329
CA2526931 C	20091229	LSGT	+	granted / extensions (spc, cpc, pte)
CA2526931 C	20250329	PEXP		Calculated Patent Term Expiry
CA2532106 AA	20060110	LSPB	+	published / reissued
CA2532106 AA	20060110	LSSES	+EEER	EXAMINATION REQUEST
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cpc, pte)					
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CA2532106 C	20240715	PEXP		Calculated Patent Term Expiry	
CA2665843 AA	20050203	LSPB	+	published / reissued	
CA2665843 AA	20090512	LSSES	+EEER	EXAMINATION REQUEST	
CA2665843 AA	20130910	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20130716
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CN100504011 C	20090624	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
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CN100504011 C	20250329	PEXP		Calculated Patent Term Expiry	
CN100547211 C	20091007	LSGT	+	granted / extensions (spc, cpc, pte)	
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CN100547211 C	20120215	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	
CN100547211 C	20120215	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS INC. OLDPARTY : FORMER NAME: LIFETIME PROD INC.
CN100547211 C	20141105	LSLE	-C17	CESSATION OF PATENT RIGHT	
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CN100552168 C	20130522	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN100552168 C	20250329	PEXP		Calculated Patent Term Expiry	
CN101061283 A	20071024	LSPB	+	published / reissued	
CN101061283 A	20071024	LSPB	+C06	PUBLICATION	
CN101421466 A	20090429	LSPB	+	published / reissued	
CN101421466 A	20090429	LSPB	+C06	PUBLICATION	
CN101421466 A	20110727	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
CN101421467 A	20090429	LSPB	+	published / reissued	
CN101421467 A	20090429	LSPB	+C06	PUBLICATION	
CN101421467 A	20120215	LSRE	C53	CORRECTION OF PATENT FOR INVENTION OR PATENT	

				APPLICATION	
CN101421467 A	20120215	LSRE	COR	CHANGE OF BIBLIOGRAPHIC DATA	TEXT : CORRECT: APPLICANT; FROM: LIFETIME PROD INC. TO: LIFETIME PRODUCTS INC.
CN101421467 A	20130626	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101421467 A	20170524	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN101421467 B	20130626	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101421467 B	20250329	PEXP		Calculated Patent Term Expiry	
CN101421468 A	20090429	LSPB	+	published / reissued	
CN101421468 A	20090429	LSPB	+C06	PUBLICATION	
CN101421468 A	20111221	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
CN101421469 A	20090429	LSPB	+	published / reissued	
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CN101421469 A	20110713	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
CN101421470 A	20090429	LSPB	+	published / reissued	
CN101421470 A	20090429	LSPB	+C06	PUBLICATION	
CN101421470 B	20110713	LSGT	+	granted / extensions (spc, cpc, pte)	
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CN101421470 B	20250329	PEXP		Calculated Patent Term Expiry	
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CN101421475 A	20090429	LSPB	+C06	PUBLICATION	
CN101421475 A	20111214	LSDW	-C20	PATENT RIGHT OR UTILITY MODEL DEEMED TO BE ABANDONED OR IS ABANDONED	
CN101614044 A	20091230	LSPB	+	published / reissued	
CN101614044 A	20091230	LSPB	+C06	PUBLICATION	
CN101614044 A	20110504	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
CN101672087 A	20100317	LSPB	+	published / reissued	

CN101672087 A	20100317	LSPB	+C06	PUBLICATION	
CN101672087 A	20120215	LSRE	C53	CORRECTION OF PATENT FOR INVENTION OR PATENT APPLICATION	
CN101672087 A	20120215	LSRE	COR	CHANGE OF BIBLIOGRAPHIC DATA	TEXT : CORRECT: APPLICANT; FROM: LIFETIME PROD INC. TO: LIFETIME PRODUCTS INC.
CN101672087 A	20130320	LSRV	-C12	REJECTION OF A PATENT APPLICATION AFTER ITS PUBLICATION	
CN1836080 A	20060920	LSPB	+	published / reissued	
CN1836080 A	20060920	LSPB	+C06	PUBLICATION	
CN1836080 A	20070124	LSRE	COR	CHANGE OF BIBLIOGRAPHIC DATA	TEXT : CORRECT: PRIORITY; FROM: MISSING THE SECOND ARTICLE OF PRIORITY TO: 2004.7.14 US 10/890,601
CN1969100 A	20070523	LSPB	+	published / reissued	
CN1969100 A	20070523	LSPB	+C06	PUBLICATION	
CN3456065 D	20050622	LSGT	+	granted / extensions (spc, cpc, pte)	
CN3456065 D	20140914	PEXP		Calculated Patent Term Expiry	
CN3465990 D	20050803	LSGT	+	granted / extensions (spc, cpc, pte)	
CN3465990 D	20140816	PEXP		Calculated Patent Term Expiry	
CN3477186 D	20050921	LSGT	+	granted / extensions (spc, cpc, pte)	
CN3477186 D	20140816	PEXP		Calculated Patent Term Expiry	
CN3490073 D	20051207	LSGT	+	granted / extensions (spc, cpc, pte)	
CN3490073 D	20140817	PEXP		Calculated Patent Term Expiry	
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CN3551630 D	20140914	PEXP		Calculated Patent Term Expiry	
CN3587253 D	20061206	LSGT	+	granted / extensions (spc, cpc, pte)	
CN3587253 D	20140818	PEXP		Calculated Patent Term Expiry	
MXPA05013372 A1	20060309	LSPB	+	published / reissued	
MXPA05013372 A1	20110215	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05013373 A1	20060317	LSPB	+	published / reissued	
MXPA05013373 A1	20110831	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05013374 A1	20060309	LSPB	+	published / reissued	
MXPA05013374 A1	20121026	LSGT	+FG	GRANT OR REGISTRATION	

MXPA05013375 A1	20060309	LSPB	+	published / reissued	
MXPA05013375 A1	20120807	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05013383 A1	20060309	LSPB	+	published / reissued	
MXPA05013383 A1	20120910	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05013384 A1	20060309	LSPB	+	published / reissued	
MXPA05013384 A1	20111216	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05013385 A1	20060317	LSPB	+	published / reissued	
MXPA05013385 A1	20130911	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05013386 A1	20060317	LSPB	+	published / reissued	
MXPA05013386 A1	20130507	LSGT	+FG	GRANT OR REGISTRATION	
MXPA06000358 A1	20060328	LSPB	+	published / reissued	
MXPA06000358 A1	20100111	LSGT	+FG	GRANT OR REGISTRATION	
US2005028454 AA	20050210	LSPB	+	published / reissued	
US2005028454 AA	20070411	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2005210760 AA	20050929	LSPB	+	published / reissued	
US2005210760 AA	20100721	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2005210761 AA	20050929	LSPB	+	published / reissued	
US2005210761 AA	20100120	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2005210765 AA	20050929	LSPB	+	published / reissued	
US2005210765 AA	20100721	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2005210766 AA	20050929	LSPB	+	published / reissued	
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US2005210828 AA	20050929	LSPB	+	published / reissued	
US2005210828 AA	20111221	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2005223652 AA	20051013	LSPB	+	published / reissued	
US2005223652 AA	20110330	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2005223653 AA	20051013	LSPB	+	published / reissued	
US2005223653 AA	20100901	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2005223655 AA	20051013	LSPB	+	published / reissued	
US2005223655 AA	20100721	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2007199253 AA	20070830	LSPB	+	published / reissued	

US2007199253 AA	20100113	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2010132297 AA	20100603	LSPB	+	published / reissued	
US2010205871 AA	20100819	LSPB	+	published / reissued	
US2010205871 AA	20111006	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; STEED, BRENT; CALKIN, JAY; AND OTHERS; SIGNING DATES FROM 20050511 TO 20050512; REEL/FRAME:027025/0085
US2011011010 AA	20110120	LSPB	+	published / reissued	
US2012219739 AA	20120830	LSPB	+	published / reissued	
US2012219739 AA	20120509	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:STEED, BRENT; CALKIN, JAY; ASHBY, KENT; SIGNING DATES FROM 20120406 TO 20120413; REEL/FRAME:028184/0057
US2012219739 AA	20130401	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US7210277 BB	20070501	LSGT	+	granted / extensions (spc, cpc, pte)	
US7210277 BB	20041021	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:STEED, BRENT; CALKIN, JAY; ASHBY, KENT; REEL/FRAME:015278/0994; SIGNING DATES FROM 20041018 TO 20041019
US7210277 BB	20070411	LSGT	PAT1	Patented Case	
US7210277 BB	20071106	LSRE	CC	CERTIFICATE OF CORRECTION	
US7210277 BB	20100721	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7210277 BB	20141002	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7210277 BB	20181018	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
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US7654060 BB	20100202	LSGT	+	granted / extensions (spc, cpc, pte)	
US7654060 BB	20100113	LSGT	PAT1	Patented Case	
US7654060 BB	20100713	LSRE	CC	CERTIFICATE OF CORRECTION	
US7654060 BB	20130703	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7654060 BB	20170724	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7654060 BB	20270721	PEXP		Calculated Patent Term Expiry (PTA 82 days)	
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US7658038 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; REEL/FRAME:016273/0649; SIGNING DATES FROM 20050511 TO 20050513
US7658038 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC.,UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; SIGNING DATES FROM 20050511 TO 20050513; REEL/FRAME:016273/0649
US7658038 BB	20100120	LSGT	PAT1	Patented Case	
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US7658038 BB	20170727	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7658038 BB	20261011	PEXP		Calculated Patent Term Expiry (PTA 562 days)	
US7770334 BB	20100810	LSGT	+	granted / extensions (spc, cpc, pte)	
US7770334 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; SIGNING DATES FROM 20050511 TO 20050512; REEL/FRAME:016286/0513
US7770334 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASILE, ROBERT A.; AND OTHERS; REEL/FRAME:016273/0382; SIGNING DATES FROM 20050511 TO 20050512
US7770334 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASILE, ROBERT A.; AND OTHERS; SIGNING DATES FROM 20050511 TO 20050512; REEL/FRAME:016273/0382
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US7770334 BB	20050525	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; STEED, BRENT; CALKIN, JAY; AND OTHERS; SIGNING DATES FROM 20050511 TO 20050512; REEL/FRAME:016276/0080
US7770334 BB	20050525	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; STEED,

					BRENT; CALKIN, JAY; AND OTHERS; REEL/FRAME:016276/0080; SIGNING DATES FROM 20050511 TO 20050512
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US7770334 BB	20110208	LSRE	CC	CERTIFICATE OF CORRECTION	
US7770334 BB	20140115	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7770334 BB	20180125	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7770334 BB	20270831	PEXP		Calculated Patent Term Expiry (PTA 886 days)	
US7770337 BB	20100810	LSGT	+	granted / extensions (spc, cpc, pte)	
US7770337 BB	20050622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; SIGNING DATES FROM 20050606 TO 20050616; REEL/FRAME:016392/0911
US7770337 BB	20050622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; REEL/FRAME:016392/0911; SIGNING DATES FROM 20050606 TO 20050616
US7770337 BB	20100721	LSGT	PAT1	Patented Case	
US7770337 BB	20120214	LSRE	CC	CERTIFICATE OF CORRECTION	
US7770337 BB	20140115	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7770337 BB	20180125	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7770337 BB	20280606	PEXP		Calculated Patent Term Expiry (PTA 1166 days)	
US7770339 BB	20100810	LSGT	+	granted / extensions (spc, cpc, pte)	
US7770339 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; SIGNING DATES FROM 20050511 TO 20050513; REEL/FRAME:016273/0472
US7770339 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; REEL/FRAME:016273/0472; SIGNING DATES FROM 20050511 TO 20050513
US7770339 BB	20100721	LSGT	PAT1	Patented Case	
US7770339 BB	20120221	LSRE	CC	CERTIFICATE OF CORRECTION	
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US7770339 BB	20180125	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7770339 BB	20250328	PEXP		Calculated	

US7779579 BB	20100824	LSGT	+	Patent Term Expiry granted / extensions (spc, cpc, pte)	
US7779579 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; SIGNING DATES FROM 20050511 TO 20050512; REEL/FRAME:016273/0410
US7779579 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; REEL/FRAME:016273/0410; SIGNING DATES FROM 20050511 TO 20050512
US7779579 BB	20100804	LSGT	PAT1	Patented Case	
US7779579 BB	20111011	LSRE	CC	CERTIFICATE OF CORRECTION	
US7779579 BB	20140129	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7779579 BB	20180208	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7779579 BB	20280501	PEXP		Calculated Patent Term Expiry (PTA 1130 days)	
US7797885 BB	20100921	LSGT	+	granted / extensions (spc, cpc, pte)	
US7797885 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; SIGNING DATES FROM 20050511 TO 20050512; REEL/FRAME:016273/0279
US7797885 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; REEL/FRAME:016273/0279; SIGNING DATES FROM 20050511 TO 20050512
US7797885 BB	20100901	LSGT	PAT1	Patented Case	
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US7797885 BB	20270523	PEXP		Calculated Patent Term Expiry (PTA 786 days)	
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US7926227 BB	20050524	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; CALKIN, JAY; ASTLE, ROBERT A.; AND OTHERS; SIGNING DATES FROM 20050505 TO 20050512; REEL/FRAME:016273/0456	
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US7926227 BB	20181018	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
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US8051617 BB	20100920	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIFETIME PRODUCTS, INC., UTAH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOWER, BARRY D.; STEED, BRENT; CALKIN, JAY; AND OTHERS; SIGNING DATES FROM 20050511 TO 20050512; REEL/FRAME:025018/0023	
US8051617 BB	20111019	LSGT	PAT1	Patented Case		
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US8091289 BB	20120918	LSRE	CC	CERTIFICATE OF CORRECTION		
US8091289 BB	20130423	LSRE	CC	CERTIFICATE OF CORRECTION		
US8091289 BB	20150624	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
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US8132372 BB	20300208	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
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US8161711 BB	20120404	LSGT	PAT1	Patented Case	
US8161711 BB	20151007	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
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WO05010288 A2	20050203	LSPB	+	published / reissued	
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WO05010288 A2	20060109	LSNP	+WWE	INFORMATION: ENTRY INTO NATIONAL PHASE WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	200480020194.6 COUNTRY OF REF DOCUMENT : CN REF DOCUMENT NUMBER : PA/A/2006/000358 COUNTRY OF REF DOCUMENT : MX
WO05010288 A2	20060110	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2532106 COUNTRY OF REF DOCUMENT : CA
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WO05094319 A2	20050329	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580001162.6 COUNTRY OF REF DOCUMENT : CN
WO05094319 A2	20051109	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2526923 COUNTRY OF REF DOCUMENT : CA
WO05094319 A2	20051208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2005/013384 COUNTRY OF REF DOCUMENT : MX
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WO05094319 A2	20070822	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
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WO05094328 A2	20051208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2005/013374 COUNTRY OF REF DOCUMENT : MX
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WO05094342 A2	20070613	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
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WO05094359 A2	20051108	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2525709 COUNTRY OF REF DOCUMENT : CA
WO05094359 A2	20051208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2005/013386 COUNTRY OF REF DOCUMENT : MX
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WO05094367 A2	20051208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2005/013375 COUNTRY OF REF DOCUMENT : MX
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WO05094367 A2	20071121	LSNE	-122	EP: PCT	REF DOCUMENT NUMBER : 05752112

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WO05094372 A2	20051013	LSPB	+	published / reissued	
WO05094372 A2	20050329	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580001175.3 COUNTRY OF REF DOCUMENT : CN
WO05094372 A2	20051108	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2525711 COUNTRY OF REF DOCUMENT : CA
WO05094372 A2	20051208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2005/013373 COUNTRY OF REF DOCUMENT : MX
WO05094372 A2	20060930	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
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WO05094372 A2	20070620	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO05098167 A2	20051020	LSPB	+	published / reissued	
WO05098167 A2	20050329	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580001164.5 COUNTRY OF REF DOCUMENT : CN
WO05098167 A2	20051107	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2525098 COUNTRY OF REF DOCUMENT : CA
WO05098167 A2	20051208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2005/013383 COUNTRY OF REF DOCUMENT : MX
WO05098167 A2	20060930	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05098167 A2	20060930	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO05098167 A3	20070530	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO05098168 A2	20051020	LSPB	+	published / reissued	
WO05098168 A2	20050329	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580001174.9 COUNTRY OF REF DOCUMENT : CN
WO05098168 A2	20051109	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2526922 COUNTRY OF REF DOCUMENT : CA
WO05098168 A2	20051208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2005/013372 COUNTRY OF REF DOCUMENT : MX

WO05098168 A2	20060930	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05098168 A2	20060930	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO05098168 A2	20070530	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: BUCKLING RESTRAINED BRACE WITH LIGHTWEIGHT **CONSTRUCTION**

Abstract: A buckling restrained brace comprises a core member, core restrainer member sections and a jacket member. The core member has two opposite ends. The core restrainer member sections are configured to be arranged around the core member. The jacket member comprises fiber reinforced polymers configured to be wrapped around the core restrainer member sections and core member to couple the core restrainer member sections to the core member such that the core restrainer member sections and jacket member cooperate to provide greater resistance to buckling of the core member when the brace is subjected to compression. In some implementations, the brace has a weight less than about 50 percent of a weight of a conventional buckling restrained brace of similar length and having a steel core and mortar-filled tubular core restrainer member of comparable cross-sectional areas, respectively.

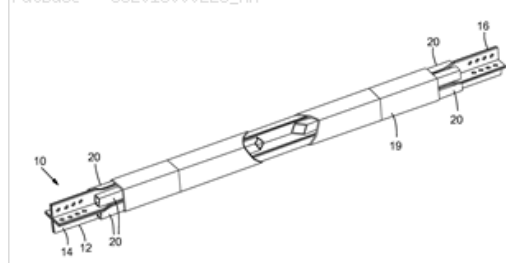
Classifications:

International (IPC 8-9): E04B1/24 E04B1/58 E04B1/98 E04C3/00 E04C3/32 (Advanced/Invention)

CPC: E04H9/028 E04C3/00 E04H9/02 E04G23/0218 G01N3/00 G01N3/32 G01N2203/0075 G01N2203/0268 G01N2203/0298 E04C3/29 E04C2003/026

US: 52/835

PatBase - US2015000228_AA

**Family:**

Publication number	Publication date	Application number	Application date
CL2014001797 A1	20150102	CL20140001797	20140704
CO7111258 A2	20141110	CO20140170638	20140805
EP2800842 A1	20141112	EP20130733695	20130104
EP2800842 A4	20151111	EP20130733695	20130104
MX2014008313 A1	20150303	MX20140008313	20130104
PE21222014 A1	20150107	PE20140001080	20130104
US2015000228 AA	20150101	US20130370747	20130104
WO13103878 A1	20130711	WO2013US20364	20130104
WO13103878 A4	20130906	WO2013US20364	20130104

Priority:

US20120584066P 20120106 US20130370747 20130104 WO2013US20364 20130104

Probable Assignee: OREGON STATE BOARD OF HIGHER EDUCATION ACTING BY AND THROUGH PORTLAND STATE UNIV

Assignee(s): (std): OREGON STATE

Assignee(s): OREGON STATE BOARD OF HIGHER EDUCATION ACTING BY AND THROUGH PORTLAND STATE UNIVERSITY ; OREGON STATE BOARD OF HIGHER EDUCATION ACTING BY AND THROUGH PORTLAND STATE UNIV

Inventor(s): (std): DUSICKA PETER

Inventor(s): PETER DUSICKA

Agent(s): JOHANSSON AND LANGLOIS LTDA; JUAN PABLO CADENA SARMIENTO; WITTE WELLER AND PARTNER PATENTANWAELE MBB; GIRARD MICHAEL P

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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CL2014001797 A1	20150102	LSPB	+	published / reissued	
CO7111258 A2	20141110	LSPB	+	published / reissued	
CO7111258 A2	20150529	LSWD	-FA	APPLICATION WITHDRAWN	
EP2800842 A1	20141112	LSPB	+	published / reissued	
EP2800842 A1	20141112	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20140804
EP2800842 A4	20151111	LSSES	+RA4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED (CORRECTED)	EFFECTIVE DATE : 20151013
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EP2800842 A4	20161130	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20160510
MX2014008313 A1	20150303	LSPB	+	published / reissued	
PE21222014 A1	20150107	LSPB	+	published / reissued	
PE21222014 A1	20160826	LSWD	-FD	APPLICATION DECLARED VOID OR LAPSED	
US2015000228 AA	20150101	LSPB	+	published / reissued	
US2015000228 AA	20140724	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OREGON STATE BOARD OF HIGHER EDUCATION ACTING BY A OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DUSICKA, PETER; REEL/FRAME:033395/0844 EFFECTIVE DATE : 20130102
US2015000228 AA	20150824	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO13103878 A1	20130711	LSPB	+	published / reissued	
WO13103878 A4	20140703	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14370747 COUNTRY OF REF DOCUMENT : US
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WO13103878 A4	20140804	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2013733695 COUNTRY OF REF DOCUMENT : EP
WO13103878 A4	20140805	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14170638 COUNTRY OF REF DOCUMENT : CO

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

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

Classifications:

International (IPC 8-9): E04B1/16 E04B1/18 E04B1/20 E04B2/84 E04B5/48 E04C2/10 E04C3/20 E04C3/29 E04G15/06 (Advanced/Invention); E04B2/86 (Advanced/Non-invention); E04B1/16 E04B1/18 E04B1/20 E04B2/84 E04B5/48 E04C2/10 E04C3/20 E04C3/29 E04G15/00 (Core/Invention); E04B2/86 (Core/Non-invention)

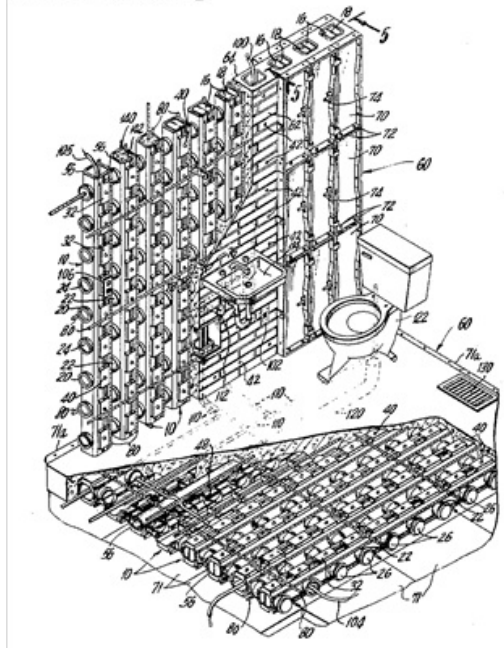
International (IPC 1-7): B23P19/04 B28B7/18 E04B1/04 E04B1/14 E04B1/16 E04B1/18 E04B1/20 E04B1/345 E04B1/38 E04B1/41 E04B2/84 E04B2/86 E04B5/32 E04B5/48 E04C1/00 E04C1/12 E04C1/24 E04C1/39 E04C2/10 E04C2/30 E04C3/00 E04C3/20 E04C3/29 E04F15/06 E04G15/00 E04G15/06 F24F13/02

CPC: E04B2/8629 E04B5/06 E04B5/326 E04B1/18 E04B1/161 E04B2/84 E04B5/48 Y10T29/49838

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

US: 249/83 249/84 264/263 264/35 29/433 294/330 52/100 52/220.2 52/220.3 52/241 52/262 52/264 52/295 52/309.12 52/309.16 52/309.17 52/405.2 52/577 52/607 52/91 52/91.2 52/99 52/990 521/0

PatBase - US3885296_A

**Family:**

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ZA7405622 A	19760428	ZA19740005622	19740904

Priority:

US19730399087 19730920 US19730399087 19730930 US19730487605 19731011
 US19740487605 19740711 US19740487604 19740711 US19750550172 19750218

Probable Assignee: STOUT R K

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

Inventor(s): KELSO STOUT ROBERT

Agent(s): WOLFF BREGMAN AND GOLLER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR206698 A1	19760813	LSGT	+	granted / extensions (spc, cpc, pte)	
AR206698 A1	19940101	PEXP		Calculated Patent Term Expiry	
AU197473011 A1	19760311	LSPB	+	published / reissued	
BE820109 A	19750116	LSPB	+	published / reissued	
BR7407832 A	19751104	LSPB	+	published / reissued	
DE2444842 A1	19750403	LSPB	+	published / reissued	
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FR2259956 B1	19790202	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2259956 B1	19810731	LSLE	-ST	NOTIFICATION OF LAPSE	
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ZA7405622 A	19760428	LSGT	+	granted / extensions (spc, cpc, pte)	
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Abstract: A suspended ceiling grid system formed of main runners (10) and cross runners (40) disposed at right angles to the main runners to define grid openings for the reception of ceiling tiles (T). Each of the runners (10, 40) includes a bulb (12, 42) a pair of webs (14, 44) depending from the bulb to define a recess therebetween, and a pair of tile supporting flanges (16, 46) extending in opposite directions from the lower edges of the webs. The tiles (T) when assembled onto the flanges (16, 46) of the main and cross runners (10, 40) resiliently displace the webs (14, 44) from their normal unstressed positions to cause the webs to center the tile. Simulation means (76) is carried by the runners in underlying relationship at the intersection of the main and cross runners (10, 40) to simulate a continuous recess at the intersection.

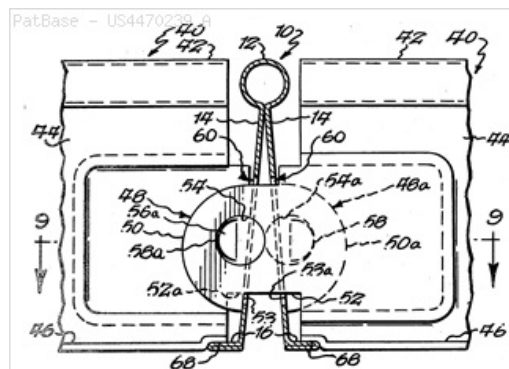
International (IPC 8-9): E04B9/06 E04B9/10 E04B9/12
E04B9/14 (Advanced/Invention);
E04B9/06 (Core/Invention)

International (IPC 1-7): E04B5/52 E04B5/55 E04B5/57

CPC: E04B9/068 E04B9/10 E04B9/122 E04B9/244

European: E04B9/06F2D E04B9/10 E04B9/12B E04B9/24B2

US: 52/241 52/506.06 52/667 52/777 52/778



Publication number	Publication date	Application number	Application date
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US4484428 A	19841127	US19820358894	19820317

US19800214250 19801208 CA19810391727 19811208 US19820358894 19820317

Assignee(s): (std): DONN CANADA ; DONN INC ; WESTLAKE OHIO U A SA ; DOWN INC ; WESTLAKE OHIO U S A A

Assignee(s): DONN INC A CORP OF OH ; DONN INC AN OH CORP ; ROBLIN IND INC ; SAUER GALE E ; DONN INC TE
WESTLAKE OHIO VER ST V AM ; ROBLIN IND ; DONN CANADA LTD ; A WESTLAKE OHIO U S A ; DON INC

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Inventor(s): GALE E SAUER ; E SAUER GALE

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD;
MACRAE AND CO

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				TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
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AT93483 A	19860615	LSPB	+	published / reissued	
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BE896160 A	19830701	LSPB	+	published / reissued	
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BR8301322 A	19831129	LSPB	+	published / reissued	
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CH657171 A	20030317	PEXP		Calculated Patent Term Expiry	
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FR2524041 B1	19870918	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2524041 B1	19900126	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2524041 B1	20030317	PEXP		Calculated Patent Term Expiry	
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JP58222246 A2	19831223	LSPB	+	published / reissued	
MY8700116 A	19871231	LSPB	+	published / reissued	
NL8300937 A	19831017	LSPB	+	published / reissued	
NL8300937 A	19891101	LSLE	-BV	THE PATENT APPLICATION HAS LAPSED	
US4470239 A	19840911	LSGT	+	granted / extensions (spc, cpc, pte)	
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US4470239 A	19820610	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DONN INCORPORATED, A CORP. OF OH, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ROBLIN INDUSTRIES, INC., A CORP. OF NY; REEL/FRAME:004002/0207 EFFECTIVE DATE : 19820604
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US4484428 A	19841127	LSGT	+	granted / extensions (spc, cpc, pte)	
US4484428 A	19820317	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DONN INCORPORATED, 1000 CROCKER ROAD, WESTLAKE, OH OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:SAUER, GALE E.; REEL/FRAME:003982/0053 EFFECTIVE DATE : 19820315
US4484428 A	19840927	LSGT	PAT1	Patented Case	
US4484428 A	19850702	LSRE	CC	CERTIFICATE OF CORRECTION	
US4484428 A	19880525	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4484428 A	19921129	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4484428 A	19930209	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19921129
US4484428 A	20180122	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4484428 A	20180122	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

Title: CNC MACHINING CENTER FOR MACHINING EXPANDED MATERIALS

Abstract: A compact machining center CNC is described, equipped with hot cutting blades and cutting and milling tools, for machining of foamed materials and/or extruded or other materials in general, comprising at least a first station (1) comprising: at least one castle (11) adapted to contain at least one block (a) of expanded polystyrene, EPS, for processing; at least one frame (5) adapted to carry at least one hot cutting dies (6); at least two slides (14) for milling performed by a tool (15) mounted on at least one electro-spindle (16) for each slide (14), the milling tool (15); and at least one frame (20) wire port/s (21) complete with insulators (22) and devices (23) for fixing and tensioning wires (21).

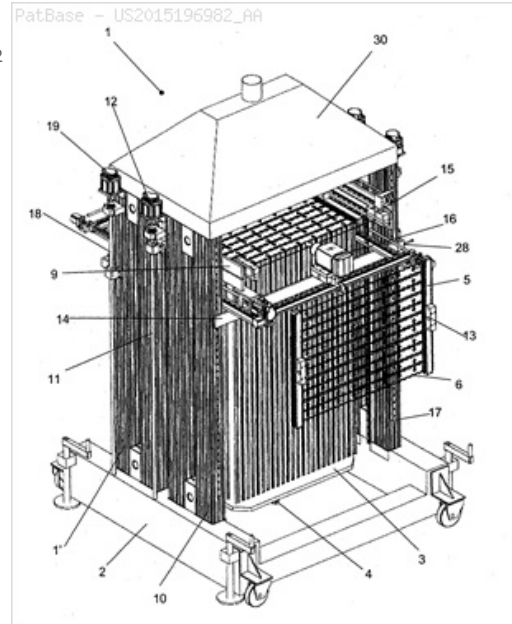
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CPC: E04B2/8641 B23P23/02 B29C44/02 B29K2025/06 B23C2226/62 B29K2105/04 B29L2007/002 B29L2031/776 B23C3/00 B26D1/04 B26D3/006 B26F3/12 Y10T29/52 B26D3/00 B26F3/08

European: B26D3/00D L26D1/04 L26F3/12

US: 29/650 425/4R



Family:

Publication number	Publication date	Application number	Application date
AU2012348493 AA	20130613	AU20120348493	20121207
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Priority:

IT2011TO01130 20111209 NZ20120627237 20121207 WO2012IT00370 20121207
RU20180127742 20121207

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Agent(s): PIPERS; PIPERS PATENT ATTORNEYS; IGNACIO MARTINEZ CORNEJO Y OTROS; LUZ CLEMENCIA DE PAEZ; DLYA NOSOVOJ IA; GARAVELLI PAOLO

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 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 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

Legal status (INPADOC)
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Patent	Date recorded	Event group	Code	Event	Details
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AU2012348493 BB	20160707	LSGT	+	granted / extensions (spc, cpc, pte)	
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PE20522014 A1	20150109	LSPB	+	published / reissued	
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WO13084252 A1	20140731	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2012348493 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20121207 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO13084252 A1	20150107	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12813550 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
WO13084252 A1	20170613	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 112014013928 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20140609

Title: UNIVERSAL STRUCTURAL ELEMENT

Abstract: The invention describes a universal structural element (1) for the purpose of forming in particular, three-dimensional structures, which structural element can be manufactured in a convenient manner efficiently, cost-effectively from the most varied materials and can be recycled in an environmentally-friendly manner, can be used and applied universally, enables a monolithic type of **construction** using similar **connectors** (5) for connecting similar structural elements together and with other elements at low assembly cost and allows disassembly or reconstruction work to be conducted in a straightforward and non-destructive manner, meets high static requirements and can preferably be standardized in **modular** dimensions. In accordance with the invention, a universal structural element (1) in the form of a profile body, having preferably a substantially square cross-section, comprises on all longitudinal sides undercut grooves (2) that are connected on the end sides (3) by means of intersecting undercut grooves (4) with preferably the same cross-section.

Classifications:

International (IPC 8-9): E04B1/18 E04B1/19 E04B1/26 E04B1/38 E04B2/00 E04B2/02 E04B2/04 E04B2/70 E04C1/00 (Advanced/Invention); E04B2/02 (Advanced/Non-invention)

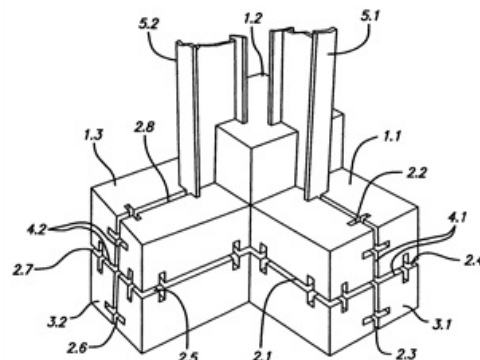
International (IPC 1-7): E04B1/18 E04B1/19 E04B1/38 E04B2/00 E04B2/08 E04B2/70 E04C1/00 E04C3/30 F16B7/00 F16S3/02

CPC: Y10T403/7043 E04B2/705 E04B1/2604 E04B2/04 E04B2001/2648 E04B2001/2672 E04B2002/0232 E04B2002/0247

European: E04B1/26B E04B2/04 E04B2/70B4 P04B1/26B13S P04B1/26B18 P04B2/02M2 P04B2/02M3B

US: 403/363 446/105 446/118 446/119 446/124 446/85 52/582.1 52/586.1 52/586.2 52/720.1 52/831 52/831P

PatBase - US2005034413_AA



Family:

Publication number	Publication date	Application number	Application date
AR026902 AA	20030305	AR2000P106179	20001123
AU200045362 A1	20010604	AU20000045362	20000310
AU200045362 A5	20010604	AU20000045362D	20000310
CA2392074 AA	20020517	CA20002392074	20000310
DE29920656 U1	20000323	DE19992020656U	19991124
MXPA02005225 A1	20030925	MX2002PA05225	20000310
TW460646 B	20011021	TW20000117130	20000822
US2005034413 AA	20050217	US20040927923	20040828
US6874291 BA	20050405	US20020149548	20021105
US7340868 BB	20080311	US20040927923	20040828
WO0138657 A1	20010531	WO2000DE00807	20000310

Priority:

DE19992020656U 19991124 US20000149548 20000310 WO2000DE00807 20000310
 WO2000DE00807 20000310 US20020149548 20021105 US20040927923 20040828

Probable Assignee: VINCENT IRVIN G

Assignee(s): (std): RALF D WEBER ; VINCENT IRVIN G ; WEBER RALF D

Assignee(s): IRVIN G VINCENT

Inventor(s): (std): WEBER RALF D ; VINCENT IRVIN G ; RALF D WEBER

Inventor(s): IRVIN G VINCENT ; WEBER RALF ; G ; D

Agent(s): KIRBY EADES GALE BAKER; LAW OFFICE OF KAREN DANA OSTER LLC

Designated states: AE 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 HU ID IE IL IN IS IT JP KE KG KP KR KZ LK LR LS LU MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RU SD SE SG SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR026902 AA	20030305	LSPB	+	published / reissued	
AR026902 AA	20040211	LSWD	-FB	SUSPENSION OF GRANTING PROCEDURE	
AU200045362 A1	20010604	LSPB	+	published / reissued	
AU200045362 A5	20020801	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
CA2392074 AA	20020517	LSPB	+	published / reissued	

CA2392074 AA	20050310	LSSES	+EEER	EXAMINATION REQUEST	
CA2392074 AA	20080310	LSLE	-FZDE	DEAD	
DE29920656 U1	20000323	LSGT	+	granted / extensions (spc, cpc, pte)	
DE29920656 U1	20000323	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20000323
DE29920656 U1	20030911	LSLE	-R156	LAPSE OF IP RIGHT AFTER 3 YEARS	EFFECTIVE DATE : 20030531
DE29920656 U1	20091124	PEXP		Calculated Patent Term Expiry	
MXPA02005225 A1	20030925	LSPB	+	published / reissued	
MXPA02005225 A1	20061019	LSGT	+FG	GRANT OR REGISTRATION	
TW460646 B	20011021	LSGT	+	granted / extensions (spc, cpc, pte)	
TW460646 B	20020306	LSGT	+GD4A	ISSUE OF PATENT CERTIFICATE FOR GRANTED INVENTION PATENT	
TW460646 B	20060801	LSLE	-MM4A	ANNULMENT OR LAPSE OF PATENT DUE TO NON-PAYMENT OF FEES	
TW460646 B	20200822	PEXP		Calculated Patent Term Expiry	
US2005034413 AA	20050217	LSPB	+	published / reissued	
US6874291 BA	20050405	LSGT	+	granted / extensions (spc, cpc, pte)	
US6874291 BA	20050316	LSGT	PAT1	Patented Case	
US6874291 BA	20050705	LSRE	CC	CERTIFICATE OF CORRECTION	
US6874291 BA	20080414	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6874291 BA	20130318	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6874291 BA	20170405	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6874291 BA	20170501	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6874291 BA	20170501	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6874291 BA	20170523	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20170405
US6874291 BA	20221105	PEXP		Calculated Patent Term Expiry	
US7340868 BB	20080311	LSGT	+	granted / extensions (spc, cpc, pte)	
US7340868 BB	20080220	LSGT	PAT1	Patented Case	
US7340868 BB	20080701	LSRE	CC	CERTIFICATE OF CORRECTION	
US7340868 BB	20110722	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7340868 BB	20160311	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7340868 BB	20160411	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7340868 BB	20160411	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7340868 BB	20160503	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160311
US7340868 BB	20250313	PEXP		Calculated Patent Term Expiry	

(PTA 197 days and a terminal disclaimer has been filed)					
WO0138657 A1	20010531	LSPB	+	published / reissued	
WO0138657 A1	20020517	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2392074 COUNTRY OF REF DOCUMENT : CA
WO0138657 A1	20020524	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2002/005225 COUNTRY OF REF DOCUMENT : MX
WO0138657 A1	20021105	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10149548 COUNTRY OF REF DOCUMENT : US
WO0138657 A1	20021218	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: **Modular building construction** and components thereof

Abstract: A **modular building construction** and components thereof. A foundation for a **building** includes anchor bolts extending around its periphery. A metal lower track is installed over the anchor bolts and secured thereto with nuts and rod couplers. Elongated **connector** rods are threaded onto the upper ends of the couplers. Pre-manufactured **modular** wall panels, integrally molded with a metal stud along a first lateral edge and a complementary recess along a second lateral edge, are successively installed in the track. A first panel is installed with an open side of the stud surrounding the **connector** rod. The second, adjacent panel is installed with its second lateral edge facing the stud. The two panels are slid together to surround and enclose the **connector** rod. The process continues until the entire peripheral wall is formed. A metal upper track is laid over the upper ends of the wall panels with the **connector** rods extending therethrough. Nuts are used to secure the wall, track, rod, and foundation together, applying compressive forces through the assembled components. A roof assembly, including **modular** roof panels and a ridge beam, is also described.

Classifications:

International (IPC 8-9): E04B1/00 E04B1/14 E04B1/35 E04B1/68

E04B7/22 E04D3/35 (Advanced/Invention);

E04B1/00 E04B1/35 E04B1/68 (Advanced/Non-invention);

E04B1/02 E04B7/00 E04D3/35 (Core/Invention);

E04B1/00 E04B1/35 E04B1/68 (Core/Non-invention)

International (IPC 1-7): E04B1/02 E04B2/00

CPC: E04B1/14 E04B1/68 E04B7/22 E04B2001/2684 E04B2001/3583

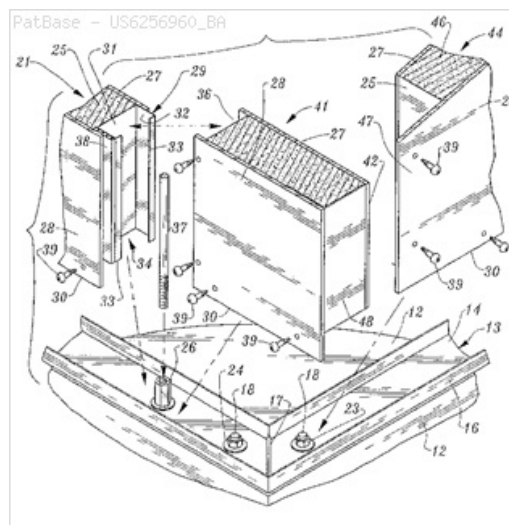
E04D3/352

European: E04B1/14 E04B7/22 E04D3/35 E04D3/35A1 P04B1/26B40A

P04B1/35T P04B1/68

US: 52/281 52/293.3 52/295 52/309.11 52/309.7 52/586.2 52/592.1

52/794.1 525/921



Family:

Publication number	Publication date	Application number	Application date
AU200027468 A1	20001114	AU20000027468	20000131
AU200027468 A5	20001114	AU20000027468	20000131
MXPA01010339 A1	20021023	MX2001PA10339	20000131
US6256960 BA	20010710	US19990289848	19990412
WO0061885 A1	20001019	WO2000US02344	20000131

Priority:

US19990289848 19990412 WO2000US02344 20000131

Probable Assignee: BUILDING MATERIAL DISTRIBUTORS INC

Assignee(s): (std): BABCOCK FRANK J ; BUILDING MATERIAL DISTRIBUTORS ; SCUKA JEFFREY R ; SMITH REGINALD D

Assignee(s): BUILDING MATERIAL DISTRIBUTORS INC

Inventor(s): (std): BABCOCK FRANK J ; SCUKA JEFFREY R ; SMITH REGINALD D

Inventor(s): FRANK J BABCOCK ; JEFFREY R SCUKA ; REGINALD D SMITH

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM 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 LR LS LT LU LV MA 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 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
AU200027468 A1	20001114	LSPB	+	published / reissued	
AU200027468 A5	20020314	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2) (F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
MXPA01010339 A1	20021023	LSPB	+	published / reissued	
US6256960 BA	20010710	LSGT	+	granted / extensions (spc, cpc, pte)	
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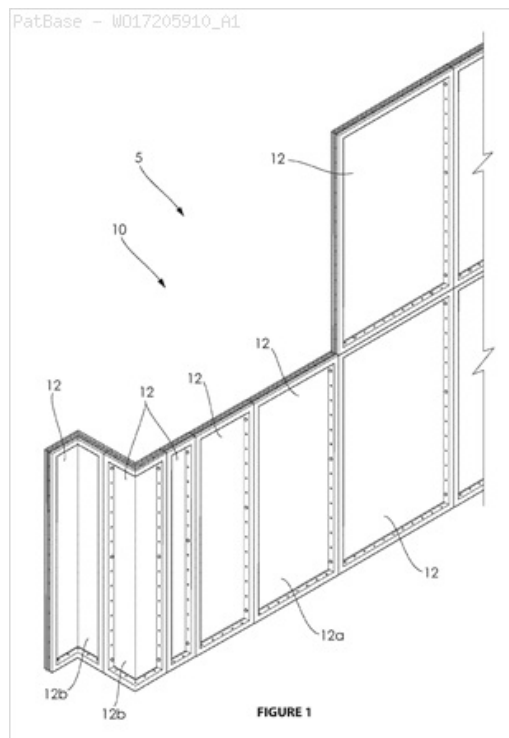
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US6256960 BA	20010625	LSGT	PAT1	Patented Case	
US6256960 BA	20010625	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6256960 BA	20041029	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6256960 BA	20081003	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6256960 BA	20120727	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6256960 BA	20190412	PEXP		Calculated Patent Term Expiry	
WO0061885 A1	20001019	LSPB	+	published / reissued	
WO0061885 A1	20011012	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2001/010339 COUNTRY OF REF DOCUMENT : MX
WO0061885 A1	20020221	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0061885 A1	20030611	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: IMPROVEMENTS IN BUILDING SYSTEMS, PANEL SYSTEMS, AND FORMWORK SYSTEMS, PANELS AND FORMWORK FOR BUILDING AND METHODS OF BUILDING USING PANELS AND FORMWORK

Abstract: A building system (5) including a panel system (10) and a formwork system (78). The panel system (10) includes a plurality of modular panels (12) arranged to fit with one another in a predetermined grid arrangement (13) to form side walls of a building in a fitted condition. At least the bottom sides (24) of each of the modular panels (12) includes a plurality of apertures (34) that are arranged at predetermined spaced apart locations along the bottom side (24) so as to coincide with the predetermined grid arrangement (13). The formwork system (78) includes a plurality of modular formwork members (80) that are associated with each of the modular panels (12) to provide a supporting slab (72) having slab apertures (76) to allow coupling with the modular panels (12). Modular panels (12), formwork members (80) and associated methods of use are also disclosed.

Classifications:

International (IPC 8-9): B28B23/00 B28B7/00 E04B1/02 E04B1/16 E04B1/66 E04B2/56 E04B2/72 E04B2/74 E04C2/38 E04G11/08 E04G11/50 E04G15/06 E04G17/04 (Advanced/Invention)
CPC: E04G11/08 E04G11/50 E04G15/06 E04G17/04 E02D27/02 E04B1/043 E04B1/24 E04B2001/2412 E04B2001/2421 E04B2001/2451 E04B1/6806 E04C2/384



Family:

Publication number	Publication date	Application number	Application date
AU2017272907 AA	20181220	AU20170272907	20170529
CN109642431 A	20190416	CN201780047658	20170529
SG11201810636X A1	20181228	SG20181110636	20170529
WO17205910 A1	20171207	WO2017AU50506	20170529

Priority:

AU20160902067 20160531 WO2017AU50506 20170529

Probable Assignee: FAST BUILD SYSTEMS PTY LTD

Assignee(s): (std): FAST BUILD SYSTEMS PTY LTD

Inventor(s): (std): JONES ALAN STEPHEN ; DEOLIVEIRA PAUL GEORGE

Agent(s): IPAND PTY LTD; CASKA IP PTY LTD

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2017272907 AA	20181220	LSPB	+	published / reissued	
CN109642431 A	20190416	LSPB	+	published / reissued	
CN109642431 A	20190416	LSPB	PB01	PUBLICATION	
SG11201810636X A1	20181228	LSPB	+	published / reissued	
WO17205910 A1	20171207	LSPB	+	published / reissued	

WO17205910 A1	20181201	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO17205910 A1	20181220	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2017272907 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20170529 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :

Title: Insulated wall structure

Abstract: Insulated wall forms that remain in place and include an exterior wall covering such as stucco or a brick facade, an interior wall covering such as gypsum board or both an exterior wall covering and an interior wall covering greatly simplify wall construction using a hardenable material such as concrete and reduce steps needed to put a finished wall in place.

Classifications:

International (IPC 8-9): E04B2/00 E04B2/86

E04G11/06 (Advanced/Invention);

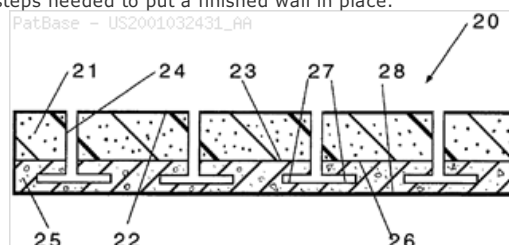
E04B2/86 (Advanced/Non-invention)

International (IPC 1-7): E04B2/00 E04B2/86 E04C1/00 E04G11/06

CPC: E04B2/8641

European: E04B2/86G1

US: 52/309.12 52/309.120P 52/426 52/426S 52/564 52/564S 52/699 52/699S



Family:

Publication number	Publication date	Application number	Application date
AU2001238560 AA	20011015	AU20010238560	20010221
AU200138560 A1	20011015	AU20010038560	20010221
AU200138560 A5	20011015	AU20010038560	20010221
CA2399300 AA	20020806	CA20012399300	20010221
CN1420957 A	20030528	CN20018007472	20010221
EP1272714 A1	20030108	EP20010911015	20010221
JP2003529691 T2	20031007	JP20010572708T	20010221
KR20020095198 A	20021220	KR20027012781	20010221
MXPA02009640 A1	20030514	MX2002PA09640	20010221
TW466295 B	20011201	TW20010105586	20010309
US2001032431 AA	20011025	US20010790016	20010221
WO0175244 A1	20011011	WO2001US05451	20010221

Priority:

US2000019362P 20000331 US20010790016 20010221 WO2001US05451 20010221

Probable Assignee: DOW CHEMICAL CO

Assignee(s): (std): DOW CHEMICAL CO ; DOW CHEMICAL INT CO LTD ; DOW GLOBAL TECHNOLOGIES CO ; DOW GLOBAL TECHNOLOGIES INC ; YOUNG W SCOTT ; THE DOW CHEMICAL COMPANY

Assignee(s): GRINHPUN VYACHESLAV S ; GRINHPUN VYACHESLAV D ; THE DOW GLOBAL TECHNOLOGIES CO

Inventor(s): (std): GRINHPUN VYACHESLAV S ; GRINHPUN V D ; GRINHPUN VYACHESLAV S ; YOUNG W S ; YOUNG W SCOTT ; GRINHPUN VYACHESLAV D

Inventor(s): YOUNG W ; V D GRINHPUN ; VD GRINHPUN ; VYACHESLAV D GRINHPUN ; W S YOUNG ; W SCOTT YOUNG ; WS YOUNG

Agent(s): SMART AND BIGGAR; NISHIYAMA MASAYA; ISHIDA TAKASHI; TSURUTA JUNICHI; HIGUCHI SOTOJI; FUKUMOTO TSUMORU

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2001238560 AA	20011015	LSPB	+	published / reissued	
AU200138560 A1	20011015	LSPB	+	published / reissued	
CA2399300 AA	20020806	LSPB	+	published / reissued	
CA2399300 AA	20050221	LSLE	-FZDE	DEAD	
CN1420957 A	20030528	LSPB	+	published / reissued	
CN1420957 A	20030528	LSPB	+C06	PUBLICATION	
CN1420957 A	20051102	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
EP1272714 A1	20030108	LSPB	+	published / reissued	
EP1272714 A1	20030108	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20021031
EP1272714 A1	20030827	LSWD	-18W	APPLICATION WITHDRAWN	EFFECTIVE DATE : 20030702
JP2003529691 T2	20031007	LSPB	+	published / reissued	

KR20020095198 A	20021220	LSPB	+	published / reissued	
MXPA02009640 A1	20030514	LSPB	+	published / reissued	
TW466295 B	20011201	LSGT	+	granted / extensions (spc, cpc, pte)	
TW466295 B	20020415	LSGT	+GD4A	ISSUE OF PATENT CERTIFICATE FOR GRANTED INVENTION PATENT	
TW466295 B	20050511	LSLE	-MM4A	ANNULMENT OR LAPSE OF PATENT DUE TO NON-PAYMENT OF FEES	
TW466295 B	20210309	PEXP		Calculated Patent Term Expiry	
US2001032431 AA	20011025	LSPB	+	published / reissued	
US2001032431 AA	20030805	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2001032431 AA	20030805	LSWD	-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	TEXT : ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
WO0175244 A1	20011011	LSPB	+	published / reissued	
WO0175244 A1	20020723	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001911015 COUNTRY OF REF DOCUMENT : EP
WO0175244 A1	20020806	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2399300 COUNTRY OF REF DOCUMENT : CA
WO0175244 A1	20020927	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2001 572708 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
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WO0175244 A1	20020930	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2002/009640 COUNTRY OF REF DOCUMENT : MX
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WO0175244 A1	20030108	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001911015 COUNTRY OF REF DOCUMENT : EP
WO0175244 A1	20030702	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001911015 COUNTRY OF REF DOCUMENT : EP