

Search history

Search 1: FT=(ADJUSTABLE~ LENGTH~ STAY~ FOR~ SCAFFOLDING~ AND TUBE~ TELESCOPICALLY~ AND BUILDING~ OR STRUCTURE~ AND REINFORCEMENT~) (Results 0)

Search 2: CONSTRUCTION POST AND REINFORCEMENT DEVICE AND TELESCOPICALLY (Results 0)

Search 3: POST AND TELESCOPICALLY AND SCAFFOLDING AND REINFORCEMENT (Results 46)

Search 4: FT=(POST~ AND TELESCOPICALLY~ AND REINFORCEMENT) AND IC=(E04G) (Results 81)

Title: Method and apparatus for buttress stabilization

Abstract: A method for stabilizing a roof-resting vehicle comprises the steps of leaning one or more buttress stands, each having chain-grab end fittings or other suitable attaching means, against a rear fender of the vehicle, passing a chain or other suitable fastening means under a rear end of the vehicle from one of the buttress stands to another (if more than one stand is used), with slack extending up to the vehicle's undercarriage on each side of the vehicle, tightening the slack from the chain or other suitable fastening means by pulling the chain-grab end fittings or other suitable attaching means towards the fenders at the vehicle undercarriage, using a ratchet strap or similar tightening means, restraining the chain or other suitable fastening means from sliding off the rear end of the vehicle by attaching a ratchet strap or similar tightening means to the chain or other suitable fastening means near a trunk lid of the vehicle, and passing the chain or other suitable fastening means up to the vehicle undercarriage in front of a wheel assembly of the vehicle, attaching a ratchet strap or similar tightening means at a base of the one or more buttress stands and tightening, and placing wedges in front of the opposite end of the vehicle, such that the vehicle is stabilized.

Classifications:

International (IPC 8-9): A47F5/00 A62B3/00 A62B37/00 A62B99/00 B60R7/00 B66F1/00 B66F19/00 E04B5/00 E04F21/22 E04G25/00 F16M1/00 F16M11/00 F16M13/00 F16M5/00 (Advanced/Invention); A62B3/00 (Advanced/Non-invention); A47F5/00 A62B37/00 A62B99/00 B60R7/00 B66F1/00 B66F19/00 E04B5/00 E04F21/00 F16M1/00 F16M11/00 F16M5/00 (Core/Invention); A62B3/00 (Core/Non-invention)

International (IPC 1-7): A47F5/00 B60R7/00 B66F1/00 E04B5/00 F16M1/00 F16M11/00 F16M11/32 F16M13/00 F16M5/00

CPC: E04F21/22 B66F19/00 Y10S72/705 Y10S254/14 A62B99/00 A62B3/00 A62B3/005 B60T3/00 B66F7/28

European: A62B3/00B A62B99/00 B66F19/00 E04F21/22 K62B3/00

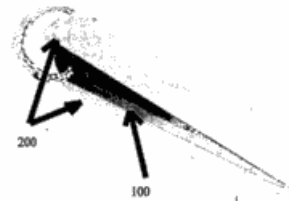
US: 248/127 248/163.1 248/163.2 248/352 248/354.1 248/354.5 248/508 248/676 248/676P 254/104 254/133A 254/45 254/DIG.14 280/6.15 280/61.5 280/762 280/763.1 280/764.1 280/765.1 280/766.1 52/749.12 72/705

PatBase - US2003075650_AA

Patent Application Publication Oct. 27, 2005

US 2005/023607 A1

Fig. 1



Family:

Publication number	Publication date	Application number	Application date
US2003075650 AA	20030424	US20010982368	20011018
US2004159768 AA	20040819	US20030720997	20031124
US2005236607 AA	20051027	US20050115741	20050427
US2005247019 AA	20051110	US20050115783	20050427
US2005247850 AA	20051110	US20050115782	20050427
US2005258332 AA	20051124	US20050115733	20050427
US2005263670 AA	20051201	US20050115742	20050427
US2007018068 AA	20070125	US20060380948	20060501
US6772984 BB	20040810	US20010982368	20011018
US7296776 BB	20071120	US20060380948	20060501
US7338025 BB	20080304	US20030720997	20031124
US7600731 BB	20091013	US20050115733	20050427
US8490939 BB	20130723	US20050115782	20050427

Priority:

US20010982368 20011018	US20030720997 20031124	US20040565619P 20040427
US20050115741 20050427	US20050115733 20050427	US20050115742 20050427
US20050115783 20050427	US20050115782 20050427	US20060380948 20060501

Probable Assignee: RES Q JACK INC

Assignee(s): (std): PASTO CRIS E ; RES Q JACK INC

Inventor(s): (std): PASTO CRIS E

Inventor(s): PASTO CRIS

Agent(s): AQUILLA AND ASSOCIATES; AQUILLA PATENTS AND MARKS PLLC; THOMAS T; AQUILLA THOMAS T

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2003075650 AA	20030424	LSPB	+	published / reissued	
US2003075650 AA	20040326	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PASTO, CRIS E., NEW YORK

					OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:RES-Q-JACK INC.; REEL/FRAME:014462/0594 EFFECTIVE DATE : 20040228
US2003075650 AA	20040414	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:014517/0544 EFFECTIVE DATE : 20040228
US2004159768 AA	20040819	LSPB	+	published / reissued	
US2004159768 AA	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : ADDENDUM TO PURCHASE AGREEMENT; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016326/0319 EFFECTIVE DATE : 20050628
US2004159768 AA	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016328/0368 EFFECTIVE DATE : 20050629
US2005236607 AA	20051027	LSPB	+	published / reissued	
US2005236607 AA	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016326/0443 EFFECTIVE DATE : 20050629
US2005236607 AA	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016328/0368 EFFECTIVE DATE : 20050629
US2005236607 AA	20070531	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2005247019 AA	20051110	LSPB	+	published / reissued	
US2005247019 AA	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016326/0443 EFFECTIVE DATE : 20050629
US2005247019 AA	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016328/0368 EFFECTIVE DATE : 20050629
US2005247019 AA	20090126	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2005247850 AA	20051110	LSPB	+	published / reissued	
US2005258332 AA	20051124	LSPB	+	published / reissued	
US2005263670 AA	20051201	LSPB	+	published / reissued	
US2005263670 AA	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016326/0443 EFFECTIVE DATE : 20050629
US2005263670 AA	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC.,

NEW YORK
 OLDPARTY : ASSIGNMENT OF
 ASSIGNORS INTEREST;
 ASSIGNOR:PASTO, CRIS E.;
 REEL/FRAME:016328/0368
 EFFECTIVE DATE : 20050629

US2005263670 AA	20130224	LSWD	-ABD1	Abandoned -- After Examiner's Answer or Board of Appeals Decision	
US2007018068 AA	20070125	LSPB	+	published / reissued	
US6772984 BB	20040810	LSGT	+	granted / extensions (spc, cpc, pte)	
US6772984 BB	20040722	LSGT	PAT1	Patented Case	
US6772984 BB	20060620	LSRE	CC	CERTIFICATE OF CORRECTION	
US6772984 BB	20080104	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6772984 BB	20120806	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6772984 BB	20160810	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6772984 BB	20160905	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6772984 BB	20160905	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6772984 BB	20160927	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160810
US6772984 BB	20220526	PEXP		Calculated Patent Term Expiry (PTA 220 days)	
US7296776 BB	20071120	LSGT	+	granted / extensions (spc, cpc, pte)	
US7296776 BB	20060623	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:017839/0725 EFFECTIVE DATE : 20050629
US7296776 BB	20071031	LSGT	PAT1	Patented Case	
US7296776 BB	20111121	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7296776 BB	20151120	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7296776 BB	20151221	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7296776 BB	20151221	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7296776 BB	20160112	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20151120
US7296776 BB	20260501	PEXP		Calculated Patent Term Expiry	
US7338025 BB	20080304	LSGT	+	granted / extensions (spc, cpc, pte)	
US7338025 BB	20080213	LSGT	PAT1	Patented Case	
US7338025 BB	20110906	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7338025 BB	20160304	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7338025 BB	20160404	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	

US7338025 BB	20160404	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7338025 BB	20160426	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160304
US7338025 BB	20250304	PEXP		Calculated Patent Term Expiry (PTA 466 days)	
US7600731 BB	20091013	LSGT	+	granted / extensions (spc, cpc, pte)	
US7600731 BB	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016326/0443 EFFECTIVE DATE : 20050629
US7600731 BB	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016328/0368 EFFECTIVE DATE : 20050629
US7600731 BB	20131013	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7600731 BB	20131111	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7600731 BB	20131111	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7600731 BB	20131203	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20131013
US7600731 BB	20261013	PEXP		Calculated Patent Term Expiry (PTA 534 days)	
US8490939 BB	20130723	LSGT	+	granted / extensions (spc, cpc, pte)	
US8490939 BB	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016326/0443 EFFECTIVE DATE : 20050629
US8490939 BB	20050729	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RES-Q-JACK, INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PASTO, CRIS E.; REEL/FRAME:016328/0368 EFFECTIVE DATE : 20050629
US8490939 BB	20130703	LSGT	PAT1	Patented Case	
US8490939 BB	20170723	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US8490939 BB	20170821	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8490939 BB	20170821	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US8490939 BB	20170912	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20170723
US8490939 BB	20280815	PEXP		Calculated Patent Term Expiry (PTA 1206 days and a terminal	

disclaimer has been
filed)

Title: Panel-supporting stringer assembly for a concrete floor slab

Abstract: (Claim 1) 1. A panel-supporting stringer adapted to be positioned longitudinally in a concrete form installation and to support thereon the side edges of a series of slab-supporting form panels having panel facings disposed in a common horizontal plane and defining a slab-supporting surface, said stringer comprising an elongated I-beam structure having top and bottom flanges and an interconnecting web, and an elongated, substantially horizontally disposed panel-supporting bar slidably mounted on each of the opposite sides of the web for vertical shifting movement bodily between a raised position wherein its upper surface is disposed below the top flange a distance equal to the thickness of a panel, the side edges of which are to be supported on the bar, and a lowered panel-releasing position, and means for locking said bar in its raised position.

Classifications:

International (IPC 8-9): E04G11/48 E04G25/06 (Advanced/Invention); E04G11/00 E04G25/00 (Core/Invention)

International (IPC 1-7): A47B55/00 E04F15/024 E04G11/48 E04G25/06

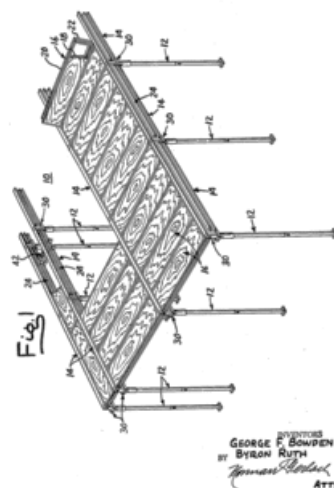
CPC: E04G11/48 E04G25/06

European: E04G11/48 E04G25/06

US: 108/185 108/190 211/186 248/245 248/354.3 249/18 249/192 249/28 249/31 254/98 264/46.5 264/46.6 52/125.1 52/126.6 52/250 52/263

PatBase - US3052008_A

Sept. 4, 1962 G. F. BOWDEN ET AL. 3,052,008
 PANEL-SUPPORTING STRINGER ASSEMBLY FOR A CONCRETE FLOOR SLAB
 Original Filed Jan. 24, 1961 8 Sheets-Sheet 1



Family:

Publication number	Publication date	Application number	Application date
US3052008 A	19620904	US19610131904	19610816
US3130470 A	19640428	US19610084574	19610124
US3130950 A	19640428	US19610121545	19610703

Priority:

US19610084574 19610124 US19610121545 19610703 US19610131904 19610816

Probable Assignee: GENERAL ELECTRIC CREDIT CORP

Assignee(s): (std): SYMONS MFG CO

Assignee(s): SYMONS MFG COMPANY ; GENERAL ELECTRIC CREDIT CORP

Inventor(s): (std): BOWDEN GEORGE F ; RUTH BYRON E

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3052008 A	19620904	LSGT	+	granted / extensions (spc, cpc, pte)	
US3052008 A	19840601	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CREDIT CORPORATION, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:SYMONS CORPORATION; REEL/FRAME:004266/0238 EFFECTIVE DATE : 19840413
US3052008 A	19840601	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CREDIT CORPORATION, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:SYMONS CORPORATION; REEL/FRAME:004266/0238 EFFECTIVE DATE : 19840413
US3130470 A	19640428	LSGT	+	granted /	

					extensions (spc, cpc, pte)
US3130470 A	19840601	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CREDIT CORPORATION, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:SYMONS CORPORATION; REEL/FRAME:004266/0238 EFFECTIVE DATE : 19840413
US3130470 A	19840601	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CREDIT CORPORATION,CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SYMONS CORPORATION; REEL/FRAME:004266/0238 EFFECTIVE DATE : 19840413
US3130950 A	19640428	LSGT	+	granted / extensions (spc, cpc, pte)	
US3130950 A	19840601	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CREDIT CORPORATION, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:SYMONS CORPORATION; REEL/FRAME:004266/0238 EFFECTIVE DATE : 19840413
US3130950 A	19840601	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CREDIT CORPORATION,CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SYMONS CORPORATION; REEL/FRAME:004266/0238 EFFECTIVE DATE : 19840413

Title: RADIAL ARM SYSTEM FOR PATIENT CARE EQUIPMENT

Abstract: A system for supporting patient care equipment alongside a patient support is provided. In one embodiment, the system includes a plurality of arms supported by a support structure. The arms may be pivoted to either side of the patient support. The arms may be stored in a console. At least one of the arms may carry service conduits that provide medical air, oxygen, vacuum, nitrogen, nitrous oxide, or electricity.

Classifications:

International (ipc 8-9): A47B71/00 A47B96/06 A47C21/00 A47C31/00 A47F3/00 A47F5/00 A47F7/00 A47H1/10 A47K1/04 A61G12/00 A61G13/00 A61G7/00 A61G7/05 A61G7/10 A61M5/14 B60T13/04 B65H75/34 E04G5/06 F16D51/00 F16L3/00 F16L3/08 F16L3/22 F16M11/00 F16M11/04 F16M11/20 F16M11/40 F16M13/00 F16M13/02 (Advanced/Invention); A61G7/10 E04G5/06 (Advanced/Non-invention); A47B71/00 A47B96/06 A47C21/00 A47C31/00 A47F3/00 A47F5/00 A47F7/00 A47H1/00 A47K1/00 A61G12/00 A61G13/00 A61G7/00 A61G7/05 A61G7/10 A61M5/14 B60T13/00 E04G5/00 F16L3/00 F16L3/08 F16M11/00 F16M11/02 F16M11/20 F16M13/00 F16M13/02 (Core/Invention); A61G7/10 E04G5/00 (Core/Non-invention)

International (ipc 1-7): A47C21/00 A61G10/00 A61G12/00

A61G13/00 A61G7/05 A61G7/10 F16L3/22

IPC: A61G12/004 A61G12/005 A61G12/008 A61G12/007

F16M2200/06 A61G7/10 A61G7/1076 A61G7/1007 A61G7/1019

A61G7/1044 A61G7/1051 A61G7/1061 A61G2200/32 A61G2200/34

F16M11/2092 F16M11/26 F16M2200/068 A47B81/061 F16M11/2085

F16M2200/028 F16M2200/022 A61G2203/72 F16M11/42 A61G7/012 A61G7/0503 A61G12/002 A61G13/107 A61G2203/80

A61M5/1415 A61M5/1417 F16M11/18 F16M11/2014 F16M11/28 F16M11/34 F16M13/022 F16M2200/063 F16M2200/065

A61G2203/723 A61G2203/726 Y10T137/6918 F16M13/02 F16M11/08 F16B2200/10

European: A47B81/06A A61G12/00 A61G12/00S A61G13/10R A61G7/05H A61G7/10N6 A61G7/10S4 A61G7/10T2

A61G7/10Z4 A61M5/14R2 A61M5/14R4 F16M11/04 F16M11/06 F16M11/08 F16M11/18 F16M11/20 F16M11/20A1 F16M11/20B

F16M11/20C F16M11/24 F16M11/26 F16M11/28 F16M11/34 F16M11/40 F16M11/42 F16M13/02 F16M13/02A K61G200/32

K61G200/34 K61G203/72 K61G203/80 K61G7/012 K61G7/05H K61G7/10 K61G7/10A6 K61G7/10T12 K61M5/14R2

K61M5/14R4 R16M200/02A1 R16M200/02B2 R16M200/06 R16M200/06B R16M200/06C R16M200/06E

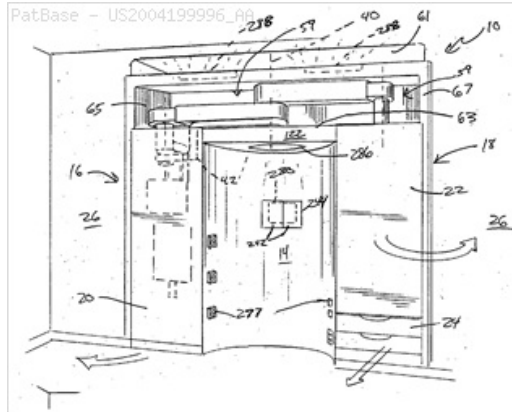
US: 137/355.16 188/171 188/72.1 188/74 188/77.00W 188/77W 211/207 211/207S 248/121 248/121P 248/122.1 248/125.1

248/125.7 248/125.700P 248/125.8 248/125.800P 248/125.800S 248/129 248/158 248/159 248/222.11 248/231.71

248/231.710P 248/274.1 248/274.100P 248/281.11 248/282.1 248/298.1 248/298.100S 248/320 248/320S 248/326 248/49

248/519 248/534 248/68.1 248/68.100P 248/74.1 248/74.100P 248/75 248/75S 403/263 5/503.1 5/503.100P 5/503.100S

5/600 5/600P 5/600S 5/658 5/658P 5/658S 5/81.1 5/81.10RP 5/81.1R 604/151 604/151S

**Family:**

Publication number	Publication date	Application number	Application date
CA2517889 AA	20050901	CA20042517889	20040317
CA2518160 AA	20050902	CA20042518160	20040317
DE602004032428 D1	20110609	DE200460032428T	20040317
EP1605886 A2	20051221	EP20040757570	20040317
EP1605886 B1	20110427	EP20040757570	20040317
EP1605887 A2	20051221	EP20040757564	20040317
EP2292202 A2	20110309	EP20100179885	20040317
EP2292202 A3	20120613	EP20100179885	20040317
EP2292202 B1	20130724	EP20100179885	20040317
US2004199996 AA	20041014	US20040802287	20040317
US2004232286 AA	20041125	US20040802288	20040317
US2005000019 AA	20050106	US20040802289	20040317
US2006207025 AA	20060921	US20060422365	20060606
US2006207026 AA	20060921	US20060422476	20060606
US2006242763 AA	20061102	US20060397013	20060403
US2006249635 AA	20061109	US20060456252	20060710
US2007018058 AA	20070125	US20040575403	20041012
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US2011168860 AA	20110714	US20110050985	20110318
US7065811 BB	20060627	US20040802287	20040317
US7065812 BB	20060627	US20040802289	20040317
US7083150 BB	20060801	US20040802288	20040317
US7216382 BB	20070515	US20060422476	20060606
US7254850 BB	20070814	US20060422365	20060606
US7418749 BB	20080902	US20040575405	20041012
US7676865 BB	20100316	US20060397013	20060403
US7735788 BB	20100615	US20070737298	20070419
US7849537 BB	20101214	US20060575403	20060410
US7849978 BB	20101214	US20040575211	20041012
US7921489 BB	20110412	US20070770265	20070628
US8336138 BB	20121225	US20110050985	20110318
WO04082553 A2	20040930	WO2004US08177	20040317
WO04082553 A3	20050127	WO2004US08177	20040317
WO04082554 A2	20040930	WO2004US08162	20040317
WO04082554 A3	20050324	WO2004US08162	20040317
WO05037163 A2	20050428	WO2004US33469	20041012
WO05037163 A3	20060518	WO2004US33469	20041012
WO05037164 A2	20050428	WO2004US33470	20041012

WO05037164 A3	20090409	WO2004US33470	20041012
WO05037165 A2	20050428	WO2004US33647	20041012
WO05037165 A3	20060518	WO2004US33647	20041012
WO05037166 A2	20050428	WO2004US33648	20041012
WO05037166 A3	20090416	WO2004US33648	20041012
WO05037342 A2	20050428	WO2004US33475	20041012
WO05037342 A3	20070712	WO2004US33475	20041012

Priority:

US20030455621P	20030318	US20030510756P	20031013	EP20040757570	20040317
US20040802287	20040317	US20040802288	20040317	US20040802289	20040317
WO2004US08162	20040317	WO2004US08177	20040317	US20040592556P	20040730
US20040575211	20041012	US20040575404	20041012	US20040575403	20041012
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WO2004US33648	20041012	WO2004US33470	20041012	WO2004US33647	20041012
US20060776768P	20060224	US20060397013	20060403	US20060575403	20060410
US20060422365	20060606	US20060422476	20060606	US20060456252	20060710
US20070737298	20070419	US20070770265	20070628	US20110050985	20110318

Probable Assignee: WITTROCK ENTERPRISES LLC

Assignee(s): (std): CERIMELE MICHAEL E ; GRAHAM MARK A ; HILL ROM SERVICES INC ; GRAHAM MARK ALAN ; NEWKIRK DAVID C ; REINKE CHRISTIAN H ; SCHWARTZ STEVEN J ; RUEHL JOHN W ; TURNER JONATHAN D ; RUEHL JOHN WALTER

Assignee(s): WITTROCK ENTERPRISES LLC ; VOALTE INC ; WELCH ALLYN INC ; HILL ROM SERVICES INC INDIANA CORP ; HILL ROM SERVICES INC (INDIANA CORPORATION) ; HILL ROM SERVICES INC INDIANA CORPORATION ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; HUNTINGTON NATIONAL BANK ; HILL ROM CO INC ; HILL ROM INC ; MORTARA INSTRUMENT INC ; MORTARA INSTRUMENT SERVICES INC ; JPMORGAN CHASE BANK NA ; ALLEN MEDICAL SYSTEMS INC ; ANODYNE MEDICAL DEVICE INC

Inventor(s): (std): GRAHAM MARK ALAN ; SCHWARTZ STEVEN J ; CERIMELE MICHAEL E ; NEWKIRK DAVID C ; RUEHL JOHN WALTER ; REINKE CHRISTIAN H ; TURNER JONATHAN D ; GRAHAM MARK A ; RUEHL JOHN W

Inventor(s): GRAHAM MARK ; REINKE CHRISTIAN ; NEWKIRK DAVID ; CERIMELE MICHAEL ; TURNER JONATHAN ; SCHWARTZ STEVEN ; RUEHL JOHN

Agent(s): MACRAE AND CO; FINDLAY ALICE ROSEMARY; BARNES AND THORNBURG; BARNES AND THORNBURG LLP; BARNES AND THORNBURG LLP (HILL-ROM); BARNES AND THORNBURG LLP HILL ROM

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2517889 AA	20050901	LSPB	+	published / reissued	
CA2517889 AA	20080317	LSLE	-FZDE	DEAD	
CA2518160 AA	20050902	LSPB	+	published / reissued	
CA2518160 AA	20080317	LSLE	-FZDE	DEAD	
EP1605886 A2	20051221	LSPB	+	published / reissued	
EP1605886 A2	20051221	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20051017
EP1605886 A2	20080820	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20080721
EP1605886 A2	20101103	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : HILL-ROOM SERVICES INC.
EP1605886 A2	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160308 YEAR OF FEE PAYMENT : 13
EP1605886 A2	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160316 YEAR OF FEE PAYMENT : 13
EP1605886 A2	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160208 YEAR OF FEE PAYMENT : 13
EP1605886 B1	20110427	LSGT	+	granted / extensions (spc, cpc, pte)	

EP1605886 B1	20110427	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1605886 B1	20110609	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602004032428 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20110609
EP1605886 B1	20120404	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20120130
EP1605886 B1	20120524	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602004032428 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120130
EP1605886 B1	20160208	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 : 13
EP1605886 B1	20170213	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 : 14
EP1605886 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170314 YEAR OF FEE PAYMENT : 14
EP1605886 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170213 YEAR OF FEE PAYMENT : 14
EP1605886 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170315 YEAR OF FEE PAYMENT : 14
EP1605886 B1	20180326	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 15
EP1605886 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20180327 YEAR OF FEE PAYMENT : 15
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EP1605886 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20180328 YEAR OF FEE PAYMENT : 15
EP1605886 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20190325 YEAR OF FEE PAYMENT : 16
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EP1605886 B1	20240317	PEXP		Calculated Patent Term Expiry	

EP1605887 A2	20051221	LSPB	+	published / reissued	
EP1605887 A2	20051221	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20051013
EP1605887 A2	20080827	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20080725
EP1605887 A2	20100331	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20091001
EP2292202 A2	20110309	LSPB	+	published / reissued	
EP2292202 A2	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160308 YEAR OF FEE PAYMENT : 13
EP2292202 A2	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160208 YEAR OF FEE PAYMENT : 13
EP2292202 A2	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160316 YEAR OF FEE PAYMENT : 13
EP2292202 A3	20121121	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC.
EP2292202 A3	20130123	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20121211
EP2292202 B1	20130724	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2292202 B1	20130724	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2292202 B1	20130919	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602004042870 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130919
EP2292202 B1	20140702	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20140425
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EP2292202 B1	20160208	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 : 13
EP2292202 B1	20170213	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 : 14
EP2292202 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170314 YEAR OF FEE PAYMENT : 14
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EP2292202 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20180326 YEAR OF FEE PAYMENT : 15
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EP2292202 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20190404 YEAR OF FEE PAYMENT : 16
EP2292202 B1	20240317	PEXP		Calculated Patent Term Expiry	
US2004199996 AA	20041014	LSPB	+	published / reissued	
US2004199996 AA	20060607	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2004232286 AA	20041125	LSPB	+	published / reissued	
US2005000019 AA	20050106	LSPB	+	published / reissued	
US2005000019 AA	20060607	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2006207025 AA	20060921	LSPB	+	published / reissued	
US2006207025 AA	20070725	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2006207026 AA	20060921	LSPB	+	published / reissued	
US2006207026 AA	20070425	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2006242763 AA	20061102	LSPB	+	published / reissued	
US2006249635 AA	20061109	LSPB	+	published / reissued	
US2006249635 AA	20110223	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007018058 AA	20070125	LSPB	+	published / reissued	
US2007067911 AA	20070329	LSPB	+	published / reissued	
US2007067911 AA	20101123	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2007069093 AA	20070329	LSPB	+	published / reissued	

US2007069093 AA	20050119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GRAHAM, MARK A.; NEWKIRK, DAVID C.; REINKE, CHRISTIAN H.; REEL/FRAME:015586/0348; SIGNING DATES FROM 20041211 TO 20041221
US2007069093 AA	20090506	LSWD	-EAB1	Expressly Abandoned -- During Examination	
US2007138354 AA	20070621	LSPB	+	published / reissued	
US2007138354 AA	20080813	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2007187559 AA	20070816	LSPB	+	published / reissued	
US2007187559 AA	20100526	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2007251014 AA	20071101	LSPB	+	published / reissued	
US2007251014 AA	20110304	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC. (INDIANA CORPORATION), IND OLDPARTY : CHANGE STATE OF INCORPORATION FROM DELAWARE TO INDIANA; ASSIGNOR:HILL-ROM SERVICES, INC. (DELAWARE CORPORATION); REEL/FRAME:025921/0590 EFFECTIVE DATE : 20101130
US2007251014 AA	20110323	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2011168860 AA	20110714	LSPB	+	published / reissued	
US2011168860 AA	20121205	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7065811 BB	20060627	LSGT	+	granted / extensions (spc, cpc, pte)	
US7065811 BB	20040419	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:NEWKIRK, DAVID C.; CERIMELE, MICHAEL E.; GRAHAM, MARK ALAN; AND OTHERS; REEL/FRAME:015220/0152; SIGNING DATES FROM 20040330 TO 20040406
US7065811 BB	20060607	LSGT	PAT1	Patented Case	
US7065811 BB	20091125	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7065811 BB	20131127	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7065811 BB	20150910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY INTEREST; ASSIGNORS:ALLEN MEDICAL SYSTEMS, INC.; HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; AND OTHERS; REEL/FRAME:036582/0123 EFFECTIVE DATE : 20150908
US7065811 BB	20160926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.;

					ALLEN MEDICAL SYSTEMS, INC.; AND OTHERS; REEL/FRAME:040145/0445 EFFECTIVE DATE : 20160921
US7065811 BB	20161208	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE HUNTINGTON NATIONAL BANK, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:WITTROCK ENTERPRISES LLC; REEL/FRAME:040596/0911 EFFECTIVE DATE : 20161205
US7065811 BB	20170329	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WITTROCK ENTERPRISES LLC, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HILL-ROM, INC.; HILL-ROM COMPANY, INC.; HILL- ROM MANUFACTURING, INC.; AND OTHERS; REEL/FRAME:041787/0872 EFFECTIVE DATE : 20161205
US7065811 BB	20171227	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7065811 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VOALTE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065811 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065811 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ANODYNE MEDICAL DEVICE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065811 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065811 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT SERVICES, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065811 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065811 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELCH ALLYN, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830

US7065811 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM COMPANY, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065811 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLEN MEDICAL SYSTEMS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065811 BB	20240317	PEXP		Calculated Patent Term Expiry	
US7065812 BB	20060627	LSGT	+	granted / extensions (spc, cpc, pte)	
US7065812 BB	20041009	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:NEWKIRK, DAVID C.; GRAHAM, MARK ALAN; SCHWARTZ, STEVEN J.; AND OTHERS; REEL/FRAME:015241/0116; SIGNING DATES FROM 20040524 TO 20040927
US7065812 BB	20041228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:NEWKIRK, DAVID C.; GRAHAM, MARK ALAN; SCHWARTZ, STEVEN J.; AND OTHERS; REEL/FRAME:016107/0185; SIGNING DATES FROM 20040524 TO 20040927
US7065812 BB	20060607	LSGT	PAT1	Patented Case	
US7065812 BB	20091125	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7065812 BB	20131127	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7065812 BB	20150910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY INTEREST; ASSIGNORS:ALLEN MEDICAL SYSTEMS, INC.; HILL- ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; AND OTHERS; REEL/FRAME:036582/0123 EFFECTIVE DATE : 20150908
US7065812 BB	20160926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL- ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; ALLEN MEDICAL SYSTEMS, INC.; AND OTHERS; REEL/FRAME:040145/0445 EFFECTIVE DATE : 20160921
US7065812 BB	20171120	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7065812 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLEN MEDICAL SYSTEMS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065812 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : MORTARA INSTRUMENT SERVICES, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065812 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELCH ALLYN, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065812 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM COMPANY, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065812 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VOALTE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065812 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065812 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065812 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ANODYNE MEDICAL DEVICE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065812 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7065812 BB	20190904	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL-ROM HOLDINGS, INC.; HILL-ROM, INC.; HILL-ROM SERVICES, INC.; AND OTHERS; REEL/FRAME:050260/0644 EFFECTIVE DATE : 20190830
US7065812 BB	20240413	PEXP		Calculated Patent Term Expiry (PTA 27 days)	
US7083150 BB	20060801	LSGT	+	granted / extensions (spc, cpc, pte)	
US7083150 BB	20040510	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., INDIANA

					OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:NEWKIRK, DAVID C.; SCHWARTZ, STEVEN J.; REEL/FRAME:015306/0122; SIGNING DATES FROM 20040405 TO 20040422	
US7083150 BB	20100801	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES		
US7083150 BB	20100830	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362		
US7083150 BB	20100830	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362	
US7083150 BB	20100921	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20100801	
US7083150 BB	20240317	PEXP		Calculated Patent Term Expiry		
US7216382 BB	20070515	LSGT	+	granted / extensions (spc, cpc, pte)		
US7216382 BB	20070425	LSGT	PAT1	Patented Case		
US7216382 BB	20101014	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7216382 BB	20141015	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US7216382 BB	20150910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY INTEREST; ASSIGNORS:ALLEN MEDICAL SYSTEMS, INC.; HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; AND OTHERS; REEL/FRAME:036582/0123 EFFECTIVE DATE : 20150908	
US7216382 BB	20160926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; ALLEN MEDICAL SYSTEMS, INC.; AND OTHERS; REEL/FRAME:040145/0445 EFFECTIVE DATE : 20160921	
US7216382 BB	20161208	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE HUNTINGTON NATIONAL BANK, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:WITTROCK ENTERPRISES LLC; REEL/FRAME:040596/0911 EFFECTIVE DATE : 20161205	
US7216382 BB	20170329	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WITTROCK ENTERPRISES LLC, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HILL-ROM, INC.; HILL-ROM COMPANY, INC.; HILL-ROM MANUFACTURING, INC.; AND OTHERS; REEL/FRAME:041787/0872 EFFECTIVE DATE : 20161205	
US7216382 BB	20181115	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12	
US7216382 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VOALTE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830	

US7216382 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ANODYNE MEDICAL DEVICE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7216382 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELCH ALLYN, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7216382 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7216382 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7216382 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM COMPANY, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7216382 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7216382 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT SERVICES, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7216382 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLEN MEDICAL SYSTEMS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7216382 BB	20260606	PEXP		Calculated Patent Term Expiry	
US7254850 BB	20070814	LSGT	+	granted / extensions (spc, cpc, pte)	
US7254850 BB	20070725	LSGT	PAT1	Patented Case	
US7254850 BB	20081223	LSRE	CC	CERTIFICATE OF CORRECTION	
US7254850 BB	20110114	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7254850 BB	20150121	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7254850 BB	20150910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE

					BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY INTEREST; ASSIGNORS:ALLEN MEDICAL SYSTEMS, INC.; HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; AND OTHERS; REEL/FRAME:036582/0123 EFFECTIVE DATE : 20150908
US7254850 BB	20160926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; ALLEN MEDICAL SYSTEMS, INC.; AND OTHERS; REEL/FRAME:040145/0445 EFFECTIVE DATE : 20160921
US7254850 BB	20161208	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE HUNTINGTON NATIONAL BANK, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:WITTROCK ENTERPRISES LLC; REEL/FRAME:040596/0911 EFFECTIVE DATE : 20161205
US7254850 BB	20170329	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WITTROCK ENTERPRISES LLC, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HILL-ROM, INC.; HILL-ROM COMPANY, INC.; HILL-ROM MANUFACTURING, INC.; AND OTHERS; REEL/FRAME:041787/0872 EFFECTIVE DATE : 20161205
US7254850 BB	20190214	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7254850 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7254850 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLEN MEDICAL SYSTEMS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7254850 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7254850 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELCH ALLYN, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7254850 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7254850 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : ANODYNE MEDICAL DEVICE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7254850 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VOALTE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7254850 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT SERVICES, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7254850 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM COMPANY, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7254850 BB	20260606	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US7418749 BB	20080902	LSGT	+	granted / extensions (spc, cpc, pte)	
US7418749 BB	20050429	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GRAHAM, MARK ALAN; CERIMELE, MICHAEL E.; REINKE, CHRISTIAN H.; AND OTHERS; REEL/FRAME:016005/0595; SIGNING DATES FROM 20041211 TO 20050208
US7418749 BB	20080813	LSGT	PAT1	Patented Case	
US7418749 BB	20120201	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7418749 BB	20150910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY INTEREST; ASSIGNORS:ALLEN MEDICAL SYSTEMS, INC.; HILL- ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; AND OTHERS; REEL/FRAME:036582/0123 EFFECTIVE DATE : 20150908
US7418749 BB	20160217	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7418749 BB	20160926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL- ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; ALLEN MEDICAL SYSTEMS, INC.; AND OTHERS; REEL/FRAME:040145/0445 EFFECTIVE DATE : 20160921
US7418749 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ANODYNE MEDICAL DEVICE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.;

					REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7418749 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VOALTE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7418749 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7418749 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7418749 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT SERVICES, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7418749 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELCH ALLYN, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7418749 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLEN MEDICAL SYSTEMS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7418749 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM COMPANY, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7418749 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7418749 BB	20190904	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL- ROM HOLDINGS, INC.; HILL- ROM, INC.; HILL-ROM SERVICES, INC.; AND OTHERS; REEL/FRAME:050260/0644 EFFECTIVE DATE : 20190830
US7418749 BB	20250826	PEXP		Calculated Patent Term Expiry (PTA 318 days)	
US7676865 BB	20100316	LSGT	+	granted / extensions (spc,	

cpc, pte)					
US7676865 BB	20060706	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GRAHAM, MARK ALAN; CERIMELE, MICHAEL E.; NEWKIRK, DAVID C.; REEL/FRAME:017883/0181; SIGNING DATES FROM 20060410 TO 20060628
US7676865 BB	20060706	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC.,DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GRAHAM, MARK ALAN; CERIMELE, MICHAEL E.; NEWKIRK, DAVID C.; SIGNING DATES FROM 20060410 TO 20060628; REEL/FRAME:017883/0181
US7676865 BB	20100224	LSGT	PAT1	Patented Case	
US7676865 BB	20130821	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7676865 BB	20150910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY INTEREST; ASSIGNORS:ALLEN MEDICAL SYSTEMS, INC.; HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; AND OTHERS; REEL/FRAME:036582/0123 EFFECTIVE DATE : 20150908
US7676865 BB	20160926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; ALLEN MEDICAL SYSTEMS, INC.; AND OTHERS; REEL/FRAME:040145/0445 EFFECTIVE DATE : 20160921
US7676865 BB	20171030	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7676865 BB	20180416	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7676865 BB	20180416	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7676865 BB	20180416	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7676865 BB	20180508	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20180316
US7676865 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ANODYNE MEDICAL DEVICE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7676865 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830

US7676865 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7676865 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM COMPANY, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7676865 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VOALTE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7676865 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7676865 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELCH ALLYN, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7676865 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT SERVICES, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7676865 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLEN MEDICAL SYSTEMS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7676865 BB	20281109	PEXP		Calculated Patent Term Expiry (PTA 951 days)	
US7735788 BB	20100615	LSGT	+	granted / extensions (spc, cpc, pte)	
US7735788 BB	20100526	LSGT	PAT1	Patented Case	
US7735788 BB	20131113	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7735788 BB	20150910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY INTEREST; ASSIGNORS:ALLEN MEDICAL SYSTEMS, INC.; HILL- ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; AND OTHERS; REEL/FRAME:036582/0123 EFFECTIVE DATE : 20150908
US7735788 BB	20160926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY

AGREEMENT; ASSIGNORS:HILL-
ROM SERVICES, INC.; ASPEN
SURGICAL PRODUCTS, INC.;
ALLEN MEDICAL SYSTEMS, INC.;
AND OTHERS;
REEL/FRAME:040145/0445
EFFECTIVE DATE : 20160921

US7735788 BB	20171120	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7735788 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7735788 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM COMPANY, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7735788 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT SERVICES, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7735788 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7735788 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELCH ALLYN, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7735788 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7735788 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VOALTE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7735788 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ANODYNE MEDICAL DEVICE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7735788 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLEN MEDICAL SYSTEMS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830

US7735788 BB	20190904	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL-ROM HOLDINGS, INC.; HILL-ROM, INC.; HILL-ROM SERVICES, INC.; AND OTHERS; REEL/FRAME:050260/0644 EFFECTIVE DATE : 20190830	
US7735788 BB	20270602	PEXP		Calculated Patent Term Expiry (PTA 44 days)		
US7849537 BB	20101214	LSGT	+	granted / extensions (spc, cpc, pte)		
US7849537 BB	20141214	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES		
US7849537 BB	20150112	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362		
US7849537 BB	20150112	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362	
US7849537 BB	20150203	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20141214	
US7849537 BB	20290412	PEXP		Calculated Patent Term Expiry (PTA 1098 days)		
US7849978 BB	20101214	LSGT	+	granted / extensions (spc, cpc, pte)		
US7849978 BB	20101123	LSGT	PAT1	Patented Case		
US7849978 BB	20140514	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7849978 BB	20150910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY INTEREST; ASSIGNORS:ALLEN MEDICAL SYSTEMS, INC.; HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; AND OTHERS; REEL/FRAME:036582/0123 EFFECTIVE DATE : 20150908	
US7849978 BB	20160926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; ALLEN MEDICAL SYSTEMS, INC.; AND OTHERS; REEL/FRAME:040145/0445 EFFECTIVE DATE : 20160921	
US7849978 BB	20161208	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE HUNTINGTON NATIONAL BANK, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:WITTROCK ENTERPRISES LLC; REEL/FRAME:040596/0911 EFFECTIVE DATE : 20161205	
US7849978 BB	20170329	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WITTROCK ENTERPRISES LLC, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HILL-ROM, INC.; HILL-ROM COMPANY, INC.; HILL-ROM MANUFACTURING, INC.; AND OTHERS; REEL/FRAME:041787/0872 EFFECTIVE DATE : 20161205	
US7849978 BB	20180614	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8	

US7849978 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM COMPANY, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7849978 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7849978 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLEN MEDICAL SYSTEMS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7849978 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7849978 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELCH ALLYN, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7849978 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT SERVICES, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7849978 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VOALTE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7849978 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7849978 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ANODYNE MEDICAL DEVICE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7849978 BB	20260107	PEXP		Calculated Patent Term Expiry (PTA 452 days)	
US7921489 BB	20110412	LSGT	+	granted / extensions (spc, cpc, pte)	
US7921489 BB	20110323	LSGT	PAT1	Patented Case	

US7921489 BB	20140910	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7921489 BB	20150910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY INTEREST; ASSIGNORS:ALLEN MEDICAL SYSTEMS, INC.; HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; AND OTHERS; REEL/FRAME:036582/0123 EFFECTIVE DATE : 20150908
US7921489 BB	20160926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL-ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; ALLEN MEDICAL SYSTEMS, INC.; AND OTHERS; REEL/FRAME:040145/0445 EFFECTIVE DATE : 20160921
US7921489 BB	20161208	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE HUNTINGTON NATIONAL BANK, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:WITTROCK ENTERPRISES LLC; REEL/FRAME:040596/0911 EFFECTIVE DATE : 20161205
US7921489 BB	20170329	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WITTROCK ENTERPRISES LLC, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HILL-ROM, INC.; HILL-ROM COMPANY, INC.; HILL-ROM MANUFACTURING, INC.; AND OTHERS; REEL/FRAME:041787/0872 EFFECTIVE DATE : 20161205
US7921489 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLEN MEDICAL SYSTEMS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7921489 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM SERVICES, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7921489 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7921489 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM COMPANY, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7921489 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830

US7921489 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ANODYNE MEDICAL DEVICE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7921489 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VOALTE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7921489 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELCH ALLYN, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7921489 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT SERVICES, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US7921489 BB	20280602	PEXP		Calculated Patent Term Expiry (PTA 340 days)	
US8336138 BB	20121225	LSGT	+	granted / extensions (spc, cpc, pte)	
US8336138 BB	20121205	LSGT	PAT1	Patented Case	
US8336138 BB	20150910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY INTEREST; ASSIGNORS:ALLEN MEDICAL SYSTEMS, INC.; HILL- ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; AND OTHERS; REEL/FRAME:036582/0123 EFFECTIVE DATE : 20150908
US8336138 BB	20160609	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8336138 BB	20160926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:HILL- ROM SERVICES, INC.; ASPEN SURGICAL PRODUCTS, INC.; ALLEN MEDICAL SYSTEMS, INC.; AND OTHERS; REEL/FRAME:040145/0445 EFFECTIVE DATE : 20160921
US8336138 BB	20161208	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE HUNTINGTON NATIONAL BANK, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:WITTROCK ENTERPRISES LLC; REEL/FRAME:040596/0911 EFFECTIVE DATE : 20161205
US8336138 BB	20170329	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WITTROCK ENTERPRISES LLC, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HILL-ROM, INC.; HILL-ROM COMPANY, INC.; HILL- ROM MANUFACTURING, INC.; AND OTHERS; REEL/FRAME:041787/0872 EFFECTIVE DATE : 20161205

US8336138 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US8336138 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VOALTE, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
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US8336138 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
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US8336138 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MORTARA INSTRUMENT SERVICES, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US8336138 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALLEN MEDICAL SYSTEMS, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US8336138 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELCH ALLYN, INC., NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US8336138 BB	20190903	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HILL-ROM COMPANY, INC., ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:JPMORGAN CHASE BANK, N.A.; REEL/FRAME:050254/0513 EFFECTIVE DATE : 20190830
US8336138 BB	20310318	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
WO04082553 A2	20040930	LSPB	+	published / reissued	
WO04082553 A3	20050902	LSNP	+WWE	WIPO	REF DOCUMENT NUMBER :

					INFORMATION: ENTRY INTO NATIONAL PHASE	2518160 COUNTRY OF REF DOCUMENT : CA
WO04082553 A3	20051017	LSNP	+WWE		WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004757570 COUNTRY OF REF DOCUMENT : EP
WO04082553 A3	20051221	LSPB	+WWP		WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2004757570 COUNTRY OF REF DOCUMENT : EP
WO04082554 A2	20040930	LSPB	+		published / reissued	
WO04082554 A3	20050901	LSNP	+WWE		WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2517889 COUNTRY OF REF DOCUMENT : CA
WO04082554 A3	20051013	LSNP	+WWE		WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004757564 COUNTRY OF REF DOCUMENT : EP
WO04082554 A3	20051221	LSPB	+WWP		WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2004757564 COUNTRY OF REF DOCUMENT : EP
WO05037163 A2	20050428	LSPB	+		published / reissued	
WO05037163 A2	20060403	LSNP	+WWE		WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11397013 COUNTRY OF REF DOCUMENT : US
WO05037163 A3	20061102	LSPB	+WWP		WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 11397013 COUNTRY OF REF DOCUMENT : US
WO05037163 A3	20061122	LSNE	-122		EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO05037164 A2	20050428	LSPB	+		published / reissued	
WO05037164 A2	20060410	LSNP	+WWE		WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10575404 COUNTRY OF REF DOCUMENT : US
WO05037164 A2	20060410	LSNP	+WWE		WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007069093 COUNTRY OF REF DOCUMENT : US
WO05037164 A2	20060414	LSNE	NENP		NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05037164 A2	20061122	LSNE	-122		EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO05037164 A2	20070329	LSPB	+WWP		WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 10575404 COUNTRY OF REF DOCUMENT : US
WO05037165 A2	20050428	LSPB	+		published / reissued	
WO05037165 A2	20060410	LSNP	+WWE		WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10575405 COUNTRY OF REF DOCUMENT : US
WO05037165 A2	20060410	LSNP	+WWE		WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007138354 COUNTRY OF REF DOCUMENT : US
WO05037165 A3	20061122	LSNE	-122		EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

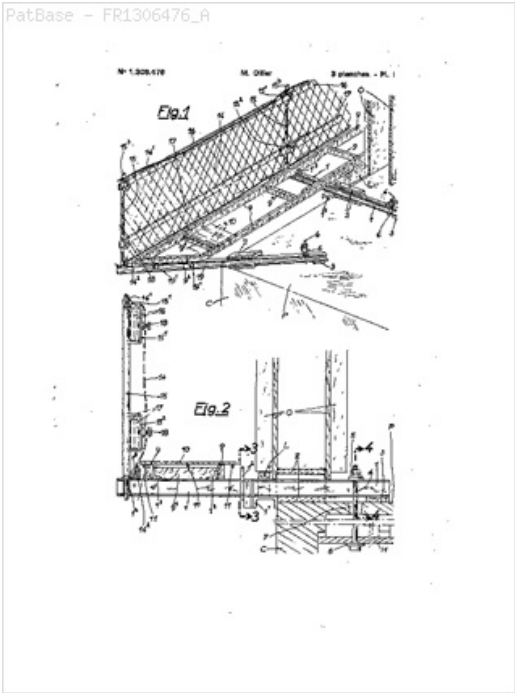
WO05037165 A3	20070621	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 10575405 COUNTRY OF REF DOCUMENT : US
WO05037166 A2	20050428	LSPB	+	published / reissued	
WO05037166 A2	20060410	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10575211 COUNTRY OF REF DOCUMENT : US
WO05037166 A2	20060410	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007067911 COUNTRY OF REF DOCUMENT : US
WO05037166 A2	20060414	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05037166 A2	20061122	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO05037166 A2	20070329	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 10575211 COUNTRY OF REF DOCUMENT : US
WO05037342 A2	20050428	LSPB	+	published / reissued	
WO05037342 A2	20060410	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10575403 COUNTRY OF REF DOCUMENT : US
WO05037342 A2	20060410	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007018058 COUNTRY OF REF DOCUMENT : US
WO05037342 A2	20070125	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 10575403 COUNTRY OF REF DOCUMENT : US
WO05037342 A2	20070307	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: ECHAFAUDAGE DE PROTECTION ET DE SECURITE, DESTINE EN PARTICULIER AUX CONSTRUCTIONS DE BATIMENTS ET AUTRES SCAFFOLDING SAFETY AND SECURITY, PARTICULARLY FOR CONSTRUCTION OF BUILDINGS AND OTHER (Machine translation)

Abstract: Source: FR1306476A [FR] (Claim 1) 1. Un ensemble comprenant des moyens porteurs constitues par des consoles robustes posees directement puis amarrees et calees sur le plan ou la dalle a partir de laquelle doit etre eleve un nouvel etage ou une autre fraction de la construction, les parties en saillies et avancees en porte a faux desdites consoles, etant agencees pour porter. d'une part des moyens formant garde-corps et constitues notamment par des montants portant des lisses et des plinthes, tandis que, d'autre part, lesdites consoles portent des moyens simplement poses et fixees et formant plancher et passerelles de circulation, qui sont constitues par des echelles ou longerons entretoises, poses et calees transversalement sur les consoles dont les ecartements peuvent varier, sur lesdites echelles etant pose et deroule un platelage ou caillebotis forme de planches ou plaques reliees par des cables ou moyens souples analogues, auxquels les planches ou plaques sont fixees;

Machine translation: (Claim 1) 1. A bearing assembly comprising means consist of rugged consoles moored and then put directly keyed to the plan or the slab from which a pupil must be a new floor or other portion of the building, the projecting parts and advanced door fake said brackets, being arranged to carry. one hand means railing and posed notably by carrying amounts of smooth and baseboards, while, on the other hand, said brackets are means simply poses and fixed bridges and forming a floor and circulation, which are consisting of scales or longitudinal struts, poses and wedges crosswise on consoles whose spacings vary, on such scales being raised and unfurled a deck or walkway shaped plates or plates linked by cables or similar flexible means, which the boards or plates are fixed;

Classifications:
International (IPC 8-9): E04G3/18 (Advanced/Invention);
E04G3/18 (Core/Invention)
International (IPC 1-7): E04G3/06
CPC: E04G2005/148 E04G3/18
European: E04G3/00B E04G3/18



Family:

Publication number	Publication date	Application number	Application date
FR1306476 A	19621013	FR19614208322	19611115

Priority:

FR19614208322 19611115

Inventor(s): (std): OLLIER DANIEL

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
FR1306476 A	19621013	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1306476 A	19811115	PEXP		Calculated Patent Term Expiry	

Abstract: Some self-supporting screens for closing the mold head, some self-supporting separating screens, group positioning devices and group tensioning devices, are used. A series of novel installations for the shock heat treatment, stripping and removal of the products enables by combination with the foregoing means, improvement with respect to known processes, on the one hand of the manufacturing process and on the other hand enables stripping to be brought forward.

International (IPC 8-9): A01B1/02 B28B1/14 B28B15/00 B28B23/04
B28B5/12 B28B7/10 E02F3/02 F16C11/10

E02F3/02 (Advanced/Non-invention);

H05B7/00 (Core/Invention)

B28B1/14 B28B15/00 B28B23/04 B28B23/06 B28B23/6 B28B7/10

CPC: Y10T16/473 Y10T403/32319

B28B5/12 B28B15/00 B28B23/04

Publication number	Publication date	Application number	Application date
AR228300 A1	19830215	AR19820288254	19820127
AT20848 E	19860815	AT19820400136T	19820125
AT367951 B	19820825	AT19800006029	19801211
AT602980 A	19820115	AT19800006029	19801211
AU198178971 A1	19820701	AU19810078971	19811209
AU198278971 A1	19820701	AU19820078971	19811209
AU198280160 A1	19820812	AU19820080160	19820203
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AU545266 B2	19850704	AU19820080160	19820203
BR8200571 A	19821207	BR19820000571	19820203
CA1178795 A1	19841204	CA19820394997	19820127
DE3166870 D1	19841129	DE19813166870	19811209
DE3272060 D1	19860828	DE19823272060	19820125
EP0054254 A1	19820623	EP19810110281	19811209
EP0054254 B1	19841024	EP19810110281	19811209
EP0057635 A2	19820811	EP19820400136	19820125
EP0057635 A3	19820818	EP19820400136	19820125
EP0057635 B1	19860723	EP19820400136	19820125
ES509288 A0	19830501	ES19820509288	19820203
ES8305240 A1	19830501	ES19820509288	19820203
FR2498976 A1	19820806	FR19810002087	19810204
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JP3051361 B4	19910806	JP19810500109T	19811209
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JP57181816 A2	19821109	JP19820015623	19820204
JP57500534 A2	19820325	JP19810501406	19810417
JP57501910 T2	19821028	JP19820500109T	19811209
KR19830008813 A	19831214	KR19820000469	19820204
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US4421710 A	19831220	US19820342090	19820125
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ZA8200680 A	19821229	ZA19820000680	19820203

AT19800006029 19801211	FR19810002087 19810204	WO1981AT00030 19811209
EP19820400136 19820125	CA19820394997 19820127	

Assignee(s): MIRCEA BORCOMAN ; BORUKOMAN MIRUSEA ; GUROTSUKU GASUTON ; GASTON GLOCK

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; FETHERSTONHAUGH AND CO

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Patent	Date recorded	Event group	Code	Event	Details
AR228300 A1	19830215	LSGT	+	granted / extensions (spc, cpc, pte)	

AR228300 A1	20020127	PEXP		Calculated Patent Term Expiry	
AT20848 E	19860815	LSGT	+	granted / extensions (spc, cpc, pte)	
AT20848 E	19870115	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT20848 E	20020125	PEXP		Calculated Patent Term Expiry	
AT367951 B	19820825	LSGT	+	granted / extensions (spc, cpc, pte)	
AT367951 B	19961015	LSLE	-ELJ	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT367951 B	20001211	PEXP		Calculated Patent Term Expiry	
AT602980 A	19820115	LSPB	+	published / reissued	
AU198178971 A1	19820701	LSPB	+	published / reissued	
AU198278971 A1	19820701	LSPB	+	published / reissued	
AU198280160 A1	19820812	LSPB	+	published / reissued	
AU545256 B2	19850704	LSGT	+	granted / extensions (spc, cpc, pte)	
AU545266 B2	19850704	LSGT	+	granted / extensions (spc, cpc, pte)	
AU545266 B2	20020203	PEXP		Calculated Patent Term Expiry	
BR8200571 A	19821207	LSPB	+	published / reissued	
BR8200571 A	20080701	LSLE	-B21A	EXPIRY ACC. ART. 78, ITEM I OF IPL- EXPIRY OF THE TERM OF PROTECTION	TEXT : PATENTE EXTINTA EM 03/02/97
DE3166870 D1	19961212	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE3272060 D1	19870813	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE3272060 D1	19990218	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
EP0054254 A1	19820623	LSPB	+	published / reissued	
EP0054254 A1	19830309	LSFE	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19821222
EP0054254 B1	19841024	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP0054254 B1	19941109	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 19941109 YEAR OF FEE PAYMENT : 14
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EP0054254 B1	19941231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 19941231 YEAR OF FEE PAYMENT : 14
EP0054254 B1	19950131	LSGT	+EAL	SE: EUROPEAN PATENT IN FORCE IN SWEDEN	REF COUNTRY CODE : EP TEXT : 81110281.3
EP0054254 B1	19950224	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 19950224 YEAR OF FEE PAYMENT : 14
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EP0054254 B1	19951210	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE LAPSED DATE : 19951210
EP0054254 B1	19951231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE LAPSED DATE : 19951231
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EP0054254 B1	19960701	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL LAPSED DATE : 19960701
EP0054254 B1	19960731	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 19951209
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EP0057635 A3	19830420	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19830211
EP0057635 B1	19860723	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0057635 B1	19860723	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT LAPSED DATE : 19860723
EP0057635 B1	19860723	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL LAPSED DATE : 19860723
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EP0057635 B1	19860731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE LAPSED DATE : 19860731
EP0057635 B1	19870116	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
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EP0057635 B1	19960124	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 19960124 YEAR OF FEE PAYMENT : 15
EP0057635 B1	19960206	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 19960206 YEAR OF FEE PAYMENT : 15
EP0057635 B1	19970125	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB LAPSED DATE : 19970125
EP0057635 B1	19970128	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 19970128 YEAR OF FEE PAYMENT : 16
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EP0057635 B1	19970214	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 19970214 YEAR OF FEE PAYMENT : 16
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EP0057635 B1	19981001	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 19981001
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ES8305240 A1	19830501	LSGT	+	granted / extensions (spc, cpc, pte)	
ES8305240 A1	19990316	LSLE	-FD1A	PATENT LAPSED	EFFECTIVE DATE : 19990201
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FR2498976 A1	19820806	LSPB	+	published / reissued	
FR2498976 A1	19821022	LSLI	CL	CONCESSION TO GRANT LICENCES	
FR2498976 B1	19831021	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2498976 B1	19840406	LSLI	CL	CONCESSION TO GRANT LICENCES	
FR2498976 B1	19951103	LSLI	CL	CONCESSION TO GRANT LICENCES	
FR2498976 B1	19981204	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2498976 B1	20010204	PEXP		Calculated Patent Term Expiry	
JP3051361 B4	19910806	LSPB	+	published / reissued	
JP3051361 B4	19910806	LSPB	+	published / reissued	
JP3051361 B4	19910806	LSPB	+	published / reissued	
JP57181816 A2	19821109	LSPB	+	published / reissued	
JP57500534 A2	19820325	LSPB	+	published / reissued	
JP57501910 T2	19821028	LSPB	+	published / reissued	
KR19830008813 A	19831214	LSPB	+	published / reissued	
KR830008813 A	19831214	LSPB	+	published / reissued	
US4421710 A	19831220	LSGT	+	granted / extensions (spc, cpc, pte)	
US4421710 A	19831024	LSGT	PAT1	Patented Case	
US4421710 A	19831024	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US4421710 A	19870521	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4421710 A	19910610	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4421710 A	19950530	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

US4421710 A	20020125	PEXP		Calculated Patent Term Expiry	
US4475757 A	19841009	LSGT	+	granted / extensions (spc, cpc, pte)	
US4475757 A	19840808	LSGT	PAT1	Patented Case	
US4475757 A	19840808	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
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US4475757 A	19920406	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4475757 A	19960405	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
WO8201975 A1	19820624	LSPB	+	published / reissued	
ZA8200680 A	19821229	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA8200680 A	20020202	PEXP		Calculated Patent Term Expiry	

Title: COLUMN FORMWORK SYSTEM MADE OF ENGINEERING PLASTIC

Abstract: The present invention describes a column formwork system made of engineering plastic. This formwork is light in weight and can be easily installed, dismantled and transported from one construction site to another. Depending on the size of the column required, the formwork is installed. After the installation, the construction material is poured in the formwork system and then is allowed to cure. After being cured, the formwork system is removed from the constructed column. As it is made of plastic, it doesn't absorb water or react with the construction material giving good quality RCC finishing. The column formwork is highly versatile and can be reused for up to 100 times. Cleaning of the dismantled formwork can be easily done by washing with water. Thus the column formwork system is highly advantageous and eliminates the disadvantages of the currently used formwork systems.

Classifications:

International (IPC 8-9): E04G17/02 E04G9/05 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN02624MU2012 A	20140314	IN2012MU02624	20120910

Probable Assignee: PATEL DAXA RAMESH

Assignee(s): PATEL DAXA RAMESH

Inventor(s): PATEL DAXA RAMESH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
IN02624MU2012 A	20140314	LSPB	+	published / reissued	

Title: Support scaffold

Abstract: The invention concerns a support scaffold with adjustable-height **posts** having an outer tube (2) and an inner tube (1), and with stiffeners (8) and fastening means (11) arranged between them for the attachment between outer tube (2) and stiffener. The invention consists in the fact that the stiffener (8) can be fastened both to the outer tube (2) and to the inner tube (1). As a result, the stiffener can be arranged at any desired height on an extended **post**, thus producing very high load-bearing capacity for the scaffold.

Classifications:

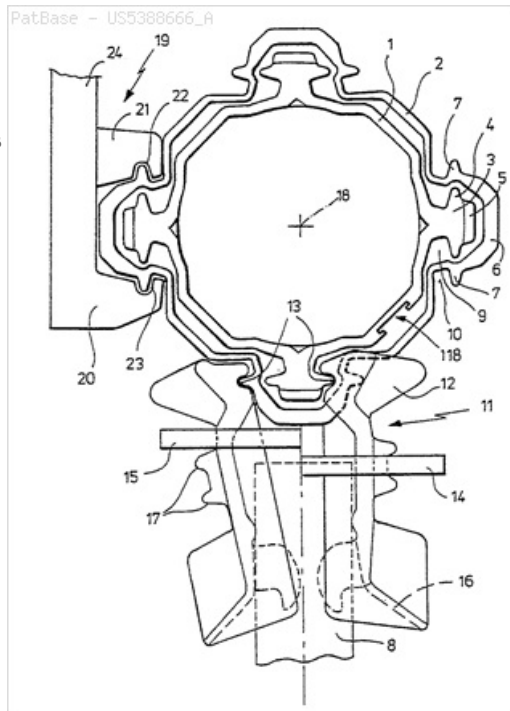
International (IPC 8-9): E04G1/12 E04G25/06 E04G5/16 E04G7/00 E04G7/30 (Advanced/Invention)

International (IPC 1-7): E04G1/12 E04G1/16 E04G1/18 E04G25/06 E04G5/02 E04G7/00 E04G7/30

CPC: E04G1/12 E04G5/16 E04G7/307 E04G25/06

European: E04G1/12 E04G1/16 E04G25/06 E04G5/16 E04G7/30C3B

US: 182/179 182/186.6



Family:

Publication number	Publication date	Application number	Application date
AT138149 E	19960615	AT19930100580T	19930115
AT183799 E	19990915	AT19930114768T	19930115
DE4201958 A1	19930805	DE19924201958	19920125
DE59302538 D1	19960620	DE19935002538	19930115
DE59309750 D1	19990930	DE19935009750	19930115
EP0553665 A1	19930804	EP19930100580	19930115
EP0553665 B1	19960515	EP19930100580	19930115
EP0694659 A2	19960131	EP19950114768	19930115
EP0694659 A3	19960306	EP19950114768	19930115
EP0694659 B1	19990825	EP19950114768	19930115
ES2090717 T3	19961016	ES19930100580T	19930115
ES2140598 T3	20000301	ES19950114768T	19930115
JP2601610 B2	19970416	JP19930009463	19930122
JP6042166 A2	19940215	JP19930009463	19930122
US5388666 A	19950214	US19930002791	19930111

Priority:

DE19924201958 19920125 DE19935002538 19930115 DE19935009750 19930115
EP19930100580 19930115

Probable Assignee: PERI GMBH

Assignee(s): (std): PERI GMBH

Assignee(s): PERI GMBH 7912 WEISSENHORN DE ; PERI GMBH 89264 WEISSENHORN DE ; PERI GMBH

Inventor(s): (std): SCHWOERER ARTUR ; SCHWOERER ARTUR ; ARUTOUURU SHIYUUEERERU

Inventor(s): SCHWOERER ARTUR W 7913 SENDEN DE ; VERZICHT DES ERFINDERS AUF NENNUNG

Designated states: AT DE ES FR GB IT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT138149 E	19960615	LSGT	+	granted / extensions (spc, cpc, pte)	
AT138149 E	20130115	PEXP		Calculated Patent Term Expiry	
AT183799 E	19990915	LSGT	+	granted / extensions (spc, cpc, pte)	

AT183799 E	20130115	PEXP		Calculated Patent Term Expiry	
DE4201958 A1	19930805	LSPB	+	published / reissued	
DE4201958 A1	19930805	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
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DE59302538 D1	19970612	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE59302538 D1	20130116	LSLE	-R071	EXPIRY OF RIGHT	REF DOCUMENT NUMBER : 553665 COUNTRY OF REF DOCUMENT : EP
DE59309750 D1	20000914	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE59309750 D1	20130116	LSLE	-R071	EXPIRY OF RIGHT	REF DOCUMENT NUMBER : 694659 COUNTRY OF REF DOCUMENT : EP
EP0553665 A1	19930804	LSPB	+	published / reissued	
EP0553665 A1	19930804	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19930515
EP0553665 A1	19950419	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19950308
EP0553665 B1	19960515	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP0553665 B1	20120430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20120201 YEAR OF FEE PAYMENT : 20
EP0553665 B1	20120531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20120131 YEAR OF FEE PAYMENT : 20
EP0553665 B1	20120629	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20120124 YEAR OF FEE PAYMENT : 20
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EP0553665 B1	20130206	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : PE20 EXPIRY DATE : 20130114
EP0553665 B1	20130315	LSLE	REG	REFERENCE TO A NATIONAL	REF COUNTRY CODE : AT

				CODE	REF LEGAL EVENT CODE : MK07 REF DOCUMENT NUMBER : 138149 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20130115
EP0553665 B1	20130329	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20120104 YEAR OF FEE PAYMENT : 20
EP0553665 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATION OF LAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20130114
EP0553665 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20130116
EP0553665 B1	20130628	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20120124 YEAR OF FEE PAYMENT : 20
EP0553665 B1	20130702	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20130702
EP0553665 B1	20130731	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 EXPIRATION OF PROTECTION LAPSED DATE : 20130116
EP0553665 B1	20130114	PEXP		Calculated Patent Term Expiry	
EP0553665 B1	20130115	PEXP		Calculated Patent Term Expiry	
EP0694659 A2	19960131	LSPB	+	published / reissued	
EP0694659 A3	19970507	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19960909
EP0694659 A3	19990331	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19990211
EP0694659 B1	19990825	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0694659 B1	20000301	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2140598 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
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EP0694659 B1	20120430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20120201 YEAR OF FEE PAYMENT : 20
EP0694659 B1	20120531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20120131 YEAR OF FEE PAYMENT : 20
EP0694659 B1	20120629	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20120112 YEAR OF FEE PAYMENT : 20

EP0694659 B1	20120629	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20120124 YEAR OF FEE PAYMENT : 20
EP0694659 B1	20130116	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R071 REF DOCUMENT NUMBER : 59309750 COUNTRY OF REF DOCUMENT : DE
EP0694659 B1	20130206	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : PE20 EXPIRY DATE : 20130114
EP0694659 B1	20130315	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK07 REF DOCUMENT NUMBER : 183799 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20130115
EP0694659 B1	20130329	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20120123 YEAR OF FEE PAYMENT : 20
EP0694659 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATION OF LAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20130114
EP0694659 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20130116
EP0694659 B1	20130628	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20120124 YEAR OF FEE PAYMENT : 20
EP0694659 B1	20130703	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20130703
EP0694659 B1	20130731	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 EXPIRATION OF PROTECTION LAPSED DATE : 20130116
EP0694659 B1	20130114	PEXP		Calculated Patent Term Expiry	
EP0694659 B1	20130115	PEXP		Calculated Patent Term Expiry	
ES2090717 T3	19961016	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2090717 T3	19961016	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 553665 COUNTRY OF REF DOCUMENT : ES
ES2090717 T3	19961116	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 553665 COUNTRY OF REF DOCUMENT : ES
ES2090717 T3	20130115	PEXP		Calculated Patent Term Expiry	
ES2140598 T3	20000301	LSGT	+	granted / extensions (spc, cpc, pte)	

ES2140598 T3	20000301	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 694659 COUNTRY OF REF DOCUMENT : ES
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JP2601610 B2	20060117	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP2601610 B2	20070116	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP2601610 B2	20071227	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 11
JP2601610 B2	20080108	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 12
JP2601610 B2	20090108	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 12
JP2601610 B2	20090113	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 13
JP2601610 B2	20091222	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 14
JP2601610 B2	20101216	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 14
JP2601610 B2	20101221	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 15
JP2601610 B2	20111129	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 16
JP2601610 B2	20130122	LSLE	-EXPY	CANCELLATION BECAUSE OF COMPLETION OF TERM	
JP2601610 B2	20130122	PEXP		Calculated Patent Term Expiry	
JP6042166 A2	19940215	LSPB	+	published / reissued	
JP6042166 A2	19961105	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 19961105
US5388666 A	19950214	LSGT	+	granted / extensions (spc, cpc, pte)	
US5388666 A	19930111	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PERI GMBH, GERMANY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR: SCHWORER, ARTUR; REEL/FRAME: 006509/0993 EFFECTIVE DATE : 19921216
US5388666 A	19950201	LSGT	PAT1	Patented Case	
US5388666 A	19950201	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5388666 A	19980716	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5388666 A	20020724	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5388666 A	20060908	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5388666 A	20130111	PEXP		Calculated Patent Term Expiry	

Title: PIT PROP

Abstract: 1349487 Pit props SALZGITTER MASCHINEN A G 30 July 1971 [8 Aug 1970 17 Oct 1970] 36019/71 Heading F1D
An hydraulic pit prop comprising inner and outer telescoping tubes 2, 1 has the upper end of the inner tube 2 provided with a tubular member 10 which seals the inner tube and provides a direct or indirect support for a replaceable prop extension 11. As shown the tubular member 10 is retained wholly within the inner tube thereby indirectly supporting the extension 11 fitted over the end 25 of the inner tube 2. In other embodiments Figs. 2 and 3 (not shown), the tubular member 10 projects from the end of the tube 2 and directly receives the extension 11. The extension is retained by a pin 13 and carries a cap 4 secured thereto by a pin 23. A valve 3 passes diametrically through the tube 2 and the member 10. A tension spring 6 urges the tubes towards their retracted position. It is stated that the above construction permits even light metal or alloy props to be extended.

Classifications:

International (IPC 8-9): E21D15/52 (Advanced/Invention);

E21D15/00 (Core/Invention)

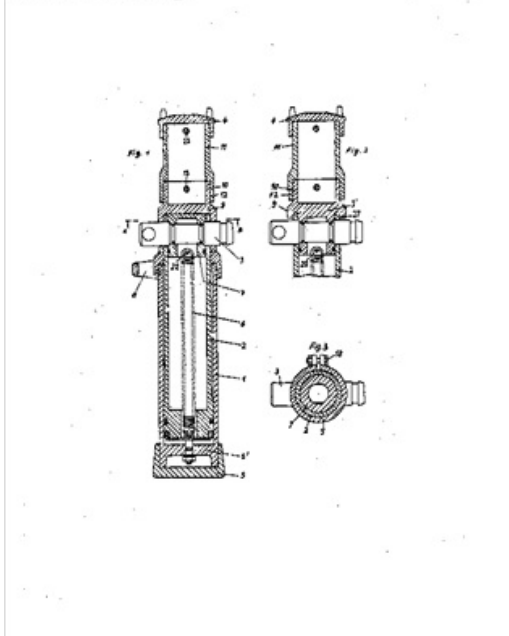
International (IPC 1-7): E04G25/00 E21D15/00 E21D15/44

E21D15/50 E21D15/54 E21D15/55

CPC: E21D15/526

European: E21D15/52V

PatBase - PL70887_P



Family:

Publication number	Publication date	Application number	Application date
CS178862 B2	19771031	CS19710005702	19710805
DE2039569 A1	19720217	DE19702039569	19700808
DE2039569 B2	19730405	DE19702039569	19700808
DE2051037 A1	19720420	DE19702051037	19701017
DE2051037 B2	19730830	DE19702051037	19701017
DE2051037 C3	19740328	DE19702051037	19701017
FR2101930 A5	19720331	FR19710027521	19710727
GB1349487 A	19740403	GB19710036019	19710730
PL70887 B	19740430	PL19710149300	19710708
PL70887 P	19740430	PL19710149300	19710708

Priority:

DE19702039569 19700808 DE19702051037 19701017

Probable Assignee: SALZGITTER MASCHINEN AG

Assignee(s): (std): SALZGITTER MASCH AG ; SALZGITTER MASCHINEN AG ; SCHULTE SUITBERT ; THEUERKAUF FRITZ

Assignee(s): THEUERKAUF FRITZ DT ; SALZGITTER MASCHINEN AG 3320 SALZGITTER ; SCHULTE SUITBERT DT

Inventor(s): (std): SCHULTE SUITBERT ; SCHULTE SUITBERT DIPL ING ; THEUERKAUF FRITZ

Inventor(s): SCHULTE SUITBERT DIPL ING 4300 ESSEN STEELE ; THEUERKAUF FRITZ 3382 OKER ; SCHULTE SUITBERT DT ; THEUERKAUF FRITZ DT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CS178862 B2	19771031	LSGT	+	granted / extensions (spc, cpc, pte)	
CS178862 B2	19860805	PEXP		Calculated Patent Term Expiry	
DE2039569 A1	19720217	LSPB	+	published / reissued	
DE2039569 B2	19730405	LSPB	+	published / reissued	
DE2051037 A1	19720420	LSPB	+	published / reissued	
DE2051037 B2	19730830	LSPB	+	published / reissued	
DE2051037 C3	19740328	LSGT	+	granted / extensions (spc, cpc, pte)	
DE2051037 C3	19740328	LSGT	+C3	GRANT AFTER TWO PUBLICATION STEPS (3RD PUBLICATION)	

DE2051037 C3	19781116	LSAS	EGA	NEW PERSON/NAME/ADDRESS OF THE APPLICANT
DE2051037 C3	19820513	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE
FR2101930 A5	19720331	LSGT	+	granted / extensions (spc, cpc, pte)
FR2101930 A5	19790921	LSLE	-ST	NOTIFICATION OF LAPSE
FR2101930 A5	19910727	PEXP		Calculated Patent Term Expiry
GB1349487 A	19740403	LSGT	+	granted / extensions (spc, cpc, pte)
GB1349487 A	19740814	LSGT	+PS	PATENT SEALED
GB1349487 A	19790307	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
GB1349487 A	19910730	PEXP		Calculated Patent Term Expiry
PL70887 P	19740430	LSGT	+	granted / extensions (spc, cpc, pte)

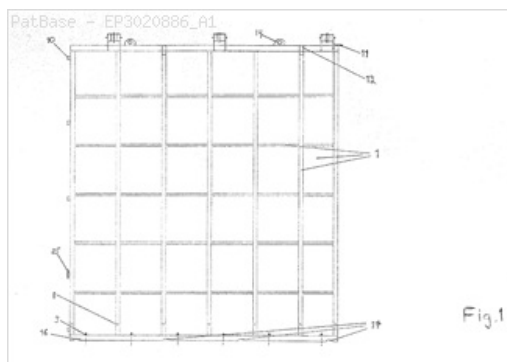
Title: METHOD FOR FABRICATING A WALL OR WALLS OF A BUILDING BY CASTING, AND A FORM SYSTEM PROCEDE DE FABRICATION D'UNE OU PLUSIEURS PAROIS D'UN BATIMENT PAR COULAGE ET SYSTEME DE COFFRAGE <

Abstract: Method for fabricating a wall or walls of a building by casting into a form at the construction site. The invention is implemented such that form sections that are fabricated and prepared in a production plant and can be joined together are used as forms, which are joined into a single assembly at the construction site and which after that are cast. The object of the invention is also a form system.

Classifications:

International (IPC 8-9): E04G11/18 (Advanced/Invention)

CPC: E04G11/18 E04G9/10 E04G9/06 E04G15/02 E04G17/001
E04G17/04 E04G19/003 E04G2009/028 E04B1/7608 E04C5/168



Family:

Publication number	Publication date	Application number	Application date
EP3020886 A1	20160518	EP20140193450	20141117

Priority:

EP20140193450 20141117

Probable Assignee: SAVOLIN AARVA HEIDI

Assignee(s): (std): SAVOLIN AARVA HEIDI ; VARONEN PETRI ; WIIRILINNA TERO

Inventor(s): (std): VARONEN PETRI

Agent(s): HEINAENEN OY PATENT AGENCY

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO
PL PT RO RS SE SI SK SM TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP3020886 A1	20160518	LSPB	+	published / reissued	
EP3020886 A1	20161228	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20161116
EP3020886 A1	20170607	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20170510
EP3020886 A1	20180502	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20171121

Abstract: ABSTRACT OF THE DISCLOSURE

Classifications:

CPC: E04G11/20

European: E04G

US: 249/20 251/310 42

DOI: 10.1002/anie.201201116



Publication number	Publication date	Application number	Application date
AT276726 B	19691210	AT19660009494	19661011
CH472558 A	19690515	CH19670014074	19671006
DE1684283 A1	19710401	DE1967H064143	19671011
DE1684283 B2	19760526	DE1967H064143	19671011
DE1684283 C3	19800103	DE1967H064143	19671011
DE6603496 U	19691016	DE19660003496U	19671011
GB1174450 A	19691217	GB196700046274	19671010
US3521335 A	19700721	US19670003864	19671009

AT19660009494 19661011

Inventor(s): HEINZLE OTTO GOETZIS VORARLBERG OESTERREICH

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Patent	Date recorded	Event group	Code	Event	Details
AT276726 B	19691210	LSGT	+	granted / extensions (spc, cpc, pte)	
AT276726 B	19820915	LSAS	EIH	CHANGE IN THE PERSON OF PATENT OWNER	
AT276726 B	19870615	LSLE	-ELA	EXPIRED DUE TO LAPSE OF TIME	
AT276726 B	19861011	PEXP		Calculated Patent Term Expiry	
CH472558 A	19690515	LSGT	+	granted / extensions (spc, cpc, pte)	
CH472558 A	19820930	LSAS	PUE	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUND-STAHL-BAU GESELLSCHAFT M.B.H.

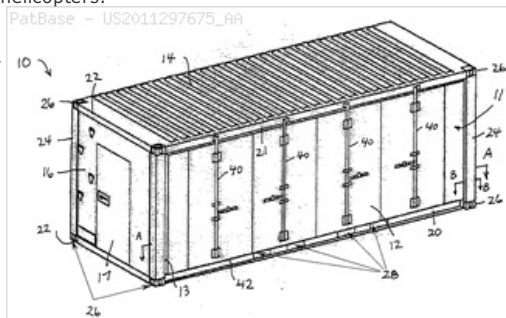
CH472558 A	19871231	LSLE	-PL	PATENT CEASED	
CH472558 A	19871006	PEXP		Calculated Patent Term Expiry	
DE1684283 A1	19710401	LSPB	+	published / reissued	
DE1684283 B2	19760526	LSPB	+	published / reissued	
DE1684283 C3	19800103	LSGT	+	granted / extensions (spc, cpc, pte)	
DE1684283 C3	19800103	LSGT	+C3	GRANT AFTER TWO PUBLICATION STEPS (3RD PUBLICATION)	
DE1684283 C3	19821230	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : RUND-STAHL-BAU GMBH, 6900 BREGENZ, AT
DE6603496 U	19691016	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1174450 A	19691217	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1174450 A	19700429	LSGT	+PS	PATENT SEALED	
GB1174450 A	19870603	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	
GB1174450 A	19871010	PEXP		Calculated Patent Term Expiry	
US3521335 A	19700721	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: COMPACT EXTENDIBLE HEIGHT CONTAINER AND SHELTER

Abstract: A shipping container can be extended in height when not in transit and is capable of being transported in carriers having limited cargo capacity such as cargo military support helicopters. There is further provided a collapsible portable containerized shelter which can be extended in height when not in transit and which is capable of being transported in carriers having limited cargo capacity such as cargo military support helicopters.

Classifications:

International (IPC 8-9): B23P17/04 B60P3/14 B60P3/34 B65D B65D6/00 B65D88/00 B65D88/12 B65D88/22 B65D88/52 B65D90/14 E04B E04B1/00 E04B1/344 E04G21/00 E04H E04H1/12 (Advanced/Invention); B60P3/34 B65D88/12 B65D88/52 E04B1/344 (Advanced/Non-invention); B60P3/32 B65D88/00 E04B1/00 E04B1/344 E04G21/00 E04H1/12 (Core/Invention); B65D E04B E04H (Subclass/Invention)
CPC: Y10T29/49826 E04B1/3444 B60P3/14 B60P3/341 B65D88/005 B65D90/143 E04H2001/1283
European: B60P3/14 B60P3/34B B65D88/00A B65D90/14A E04B1/344C1 P04H1/12R
US: 220/8 220/8P 29/428 29/428S



Family:

Publication number	Publication date	Application number	Application date
AU2009317833 AA	20100527	AU20090317833	20091120
AU2009317833 BB	20150416	AU20090317833	20091120
BRPI0921923 A2	20151229	BR2009PI21923	20091120
CA2742778 AA	20110505	CA20092742778	20091120
CA2742778 C	20160105	CA20092742778	20091120
CL2011001072 A1	20110819	CL20110001072	20110512
CN102216179 A	20111012	CN200980145119	20091120
CO6361980 A2	20120120	CO20110077049	20110620
EP2376351 A1	20111019	EP20090827093	20091120
EP2376351 A4	20140430	EP20090827093	20091120
EP2376351 B1	20170315	EP20090827093	20091120
HU034525 T2	20180228	HU20090827093T	20091120
IN03452DN2011 A	20120406	IN2011DN03452	20110510
JP2012509227 T2	20120419	JP20110536715T	20091120
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KR20110093901 A	20110818	KR20117014129	20091120
MX2011004743 A1	20110530	MX20110004743	20091120
US2011297675 AA	20111208	US20090128189	20091120
WO10057313 A1	20100527	WO2009CA01691	20091120
WO10057313 A8	20100729	WO2009CA01691	20091120
ZA201103243 A	20111228	ZA20110003243	20110505
ZA201103243 A	20120125	ZA20110003243	20110505

Priority:

US20070987044P 20071110 AU20080324689 20081110 US20080117134P 20081122
 AU20090317833 20091120 JP20110536715T 20091120 WO2009CA01691 20091120
 US20090128189 20091120 JP20150157314 20150807

Probable Assignee: WEATHERHAVEN GLOBAL RESOURCES LTD

Assignee(s): (std): JOHNSON BRIAN D ; THORNE GLEN V ; WEATHERHAVEN GLOBAL RESOURCES LTD ; WEATHERHAVEN RESOURCES LTD

Inventor(s): (std): THORNE GLEN V ; JOHNSON BRIAN D ; GLEN V THORNE ; BRIAN D JOHNSON ; JOHNSON BRIAN D THORNE GLEN V

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP; CLARO SWINBURN LUIS FELIPE; LUIS FELIPE CASTILLO GIBSON; LATHAM STUART ALEXANDER; ONDA HIRONORI; ONDA MAKOTO; GREEN BRUCE M

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2009317833 AA	20100527	LSPB	+	published / reissued	
AU2009317833 AA	20150226	LSRE	DA3	AMENDMENTS MADE SECTION 104	TEXT : THE NATURE OF THE AMENDMENT IS: AMEND DIVISIONAL DETAILS TO READ 2008324689
AU2009317833 BB	20150416	LSGT	+	granted / extensions (spc, cpc, pte)	

AU2009317833 BB	20150813	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2009317833 BB	20291120	PEXP		Calculated Patent Term Expiry	
BRPI0921923 A2	20170905	LSAS	B25A	REQUESTED TRANSFER OF RIGHTS APPROVED	PARTYTYPE : OWNER OWNER : WEATHERHAVEN GLOBAL RESOURCES LTD (CA)
BRPI0921923 A2	20190402	LSSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI0921923 A2	20191105	LSSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
CA2742778 AA	20110505	LSPB	+	published / reissued	
CA2742778 AA	20141202	LSSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20141117
CA2742778 C	20160105	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2742778 C	20291120	PEXP		Calculated Patent Term Expiry	
CL2011001072 A1	20110819	LSPB	+	published / reissued	
CN102216179 A	20111012	LSPB	+	published / reissued	
CN102216179 A	20111012	LSPB	+C06	PUBLICATION	
CN102216179 A	20131016	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
CO6361980 A2	20120120	LSPB	+	published / reissued	
CO6361980 A2	20120731	LSWD	-FA	APPLICATION WITHDRAWN	
EP2376351 A1	20111019	LSPB	+	published / reissued	
EP2376351 A1	20111019	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20110609
EP2376351 A4	20140430	LSSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20140331
EP2376351 A4	20150527	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20150424
EP2376351 A4	20150722	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : WEATHERHAVEN GLOBAL RESOURCES LTD.
EP2376351 A4	20161026	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20160927
EP2376351 B1	20170315	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2376351 B1	20170315	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2376351 B1	20170315	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2376351 B1	20170405	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2376351 B1	20170415	LSNP	REG	REFERENCE TO A	REF COUNTRY CODE : AT

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EP2376351 B1	20170427	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602009044839 COUNTRY OF REF DOCUMENT : DE
EP2376351 B1	20170612	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : RO REF LEGAL EVENT CODE : EPE
EP2376351 B1	20170725	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2376351 B1	20170731	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170616
EP2376351 B1	20170731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20170731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20170731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20170807	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NO REF LEGAL EVENT CODE : T2 EFFECTIVE DATE : 20170315
EP2376351 B1	20170815	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 875289 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20170315
EP2376351 B1	20170831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20170831	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 : 20170315

EP2376351 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20171031	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20171127	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP2376351 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SM NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IS NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170715
EP2376351 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170717
EP2376351 B1	20171218	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602009044839 COUNTRY OF REF DOCUMENT : DE
EP2376351 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED

					TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20171129 YEAR OF FEE PAYMENT : 9
EP2376351 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20171126 YEAR OF FEE PAYMENT : 9
EP2376351 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NO PAYMENT DATE : 20171129 YEAR OF FEE PAYMENT : 9
EP2376351 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20171127 YEAR OF FEE PAYMENT : 9
EP2376351 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20171110 YEAR OF FEE PAYMENT : 9
EP2376351 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20171107 YEAR OF FEE PAYMENT : 9
EP2376351 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO PAYMENT DATE : 20171101 YEAR OF FEE PAYMENT : 9
EP2376351 B1	20180221	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20171218
EP2376351 B1	20180228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20171127 YEAR OF FEE PAYMENT : 9
EP2376351 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20171123 YEAR OF FEE PAYMENT : 9
EP2376351 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG PAYMENT DATE : 20171129 YEAR OF FEE PAYMENT : 9
EP2376351 B1	20180228	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E034525 COUNTRY OF REF DOCUMENT : HU
EP2376351 B1	20180629	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170315
EP2376351 B1	20180731	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT :

				CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20171130
EP2376351 B1	20180731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20171130
EP2376351 B1	20180831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20171120
EP2376351 B1	20180905	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2376351 B1	20180928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20171120
EP2376351 B1	20181031	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20171120
EP2376351 B1	20181130	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 : 20171130
EP2376351 B1	20181231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20181126 YEAR OF FEE PAYMENT : 10
EP2376351 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NO PAYMENT DATE : 20181128 YEAR OF FEE PAYMENT : 10
EP2376351 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20181113 YEAR OF FEE PAYMENT : 10
EP2376351 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20181128 YEAR OF FEE PAYMENT : 10
EP2376351 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20181109 YEAR OF FEE PAYMENT : 10
EP2376351 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO PAYMENT DATE : 20181106 YEAR OF FEE PAYMENT : 10
EP2376351 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG PAYMENT DATE : 20181120 YEAR OF FEE PAYMENT : 10
EP2376351 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20181127 YEAR OF FEE PAYMENT : 10
EP2376351 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL	COUNTRY OF REF DOCUMENT : IT

				OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	PAYMENT DATE : 20181123 YEAR OF FEE PAYMENT : 10
EP2376351 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20181127 YEAR OF FEE PAYMENT : 10
EP2376351 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170315
EP2376351 B1	20291120	PEXP		Calculated Patent Term Expiry	
HU034525 T2	20180228	LSPB	+	published / reissued	
IN03452DN2011 A	20120406	LSPB	+	published / reissued	
JP2012509227 T2	20120419	LSPB	+	published / reissued	
JP2012509227 T2	20121025	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20121024
JP2012509227 T2	20140108	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20140107
JP2012509227 T2	20140708	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20140707
JP2012509227 T2	20150408	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20150407
JP2012509227 T2	20150414	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A712 EFFECTIVE DATE : 20150414
JP2012509227 T2	20150501	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20150414
JP2015205732 A2	20151119	LSPB	+	published / reissued	
JP2015205732 A2	20160719	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20160719
JP2015205732 A2	20161017	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20161017
JP2015205732 A2	20170227	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2015205732 A2	20170301	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20170301
JP2015205732 A2	20170330	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20170323
JP2015205732 A2	20170331	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 6117874 COUNTRY OF REF DOCUMENT : JP
JP6117874 B2	20170419	LSGT	+	granted / extensions (spc, cpc, pte)	
JP6117874 B2	20170309	LSGT	+A01	特許査定書 (Decision of patent grant)	
JP6117874 B2	20170328	LSFE	R100	特許料納付書 (Patent	

					fee payment form)
JP6117874 B2	20170331	LSGT	+R150	特許証 (Patent certificate)	
JP6117874 B2	20350807	PEXP		Calculated Patent Term Expiry	
KR20110093901 A	20110818	LSPB	+	published / reissued	
KR20110093901 A	20141221	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
MX2011004743 A1	20110530	LSPB	+	published / reissued	
US2011297675 AA	20111208	LSPB	+	published / reissued	
US2011297675 AA	20110606	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WEATHERHAVEN RESOURCES LTD., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JOHNSON, BRIAN D.; THORNE, GLEN V.; SIGNING DATES FROM 20010524 TO 20110524; REEL/FRAME:026396/0233
US2011297675 AA	20150203	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WEATHERHAVEN GLOBAL RESOURCES LTD., CANADA OLDPARTY : MERGER; ASSIGNOR:WEATHERHAVEN RESOURCES LTD.; REEL/FRAME:034891/0092 EFFECTIVE DATE : 20141001
US2011297675 AA	20180326	LSES	-NFA2	Non Final Action Counted, Not Yet Mailed	
US2011297675 AA	20180403	LSES	NFA1	Non Final Action Mailed	
US2011297675 AA	20191001	LSES	NFA1	Non Final Action Mailed	
WO10057313 A1	20100527	LSPB	+	published / reissued	
WO10057313 A1	20091120	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200980145119.5 COUNTRY OF REF DOCUMENT : CN
WO10057313 A8	20110428	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2011536715 COUNTRY OF REF DOCUMENT : JP
WO10057313 A8	20110503	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 592620 COUNTRY OF REF DOCUMENT : NZ
WO10057313 A8	20110504	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2011/004743 COUNTRY OF REF DOCUMENT : MX
WO10057313 A8	20110505	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2009317833 COUNTRY OF REF DOCUMENT : AU
WO10057313 A8	20110505	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2742778 COUNTRY OF REF DOCUMENT : CA
WO10057313 A8	20110510	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 3452/DELNP/2011 COUNTRY OF REF DOCUMENT : IN
WO10057313 A8	20110519	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 001055-2011 COUNTRY OF REF DOCUMENT : PE
WO10057313 A8	20110523	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

WO10057313 A8	20110526	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2009317833 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20091120 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO10057313 A8	20110606	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13128189 COUNTRY OF REF DOCUMENT : US
WO10057313 A8	20110609	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2009827093 COUNTRY OF REF DOCUMENT : EP
WO10057313 A8	20110620	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20117014129 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO10057313 A8	20110620	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11077049 COUNTRY OF REF DOCUMENT : CO
WO10057313 A8	20151229	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0921923 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20110520
ZA201103243 A	20111228	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201103243 A	20120125	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201103243 A	20310504	PEXP		Calculated Patent Term Expiry	
ZA201103243 A	20310504	PEXP		Calculated Patent Term Expiry	

Title: A STANCHION ASSEMBLY FOR A TIMBER FRAME STRUCTURE

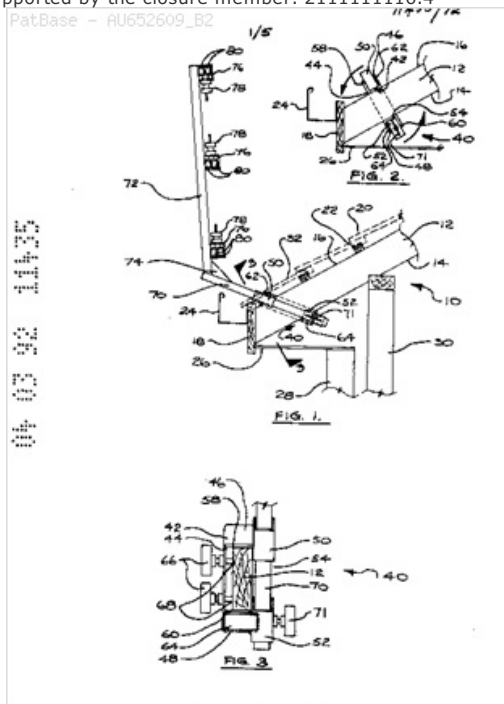
Abstract: 1. A stanchion assembly for a timber frame building, comprising a support **post** capable of receiving a structure to be carried by the stanchion assembly and a support assembly for the support **post**, the support assembly comprising a bracket having a base and spaced legs projecting therefrom which is adapted to receive a timber frame member of the frame building between the base and the spaced legs, the spaced legs having free ends which releasably receive a closure member which closes the bracket and wherein the support **post** is supported by the closure member. 2111111116.4

Classifications:

International (IPC 8-9): E04G21/32 E04G23/03 (Advanced/Invention);
E04G21/32 E04G23/03 (Core/Invention)

International (IPC 1-7): E04G21/32 E04G23/03

PatBase - AU652609_B2



Family:

Publication number	Publication date	Application number	Application date
AU199211435 A1	19921210	AU19920011435	19920304
AU652609 B2	19940901	AU19920011435	19920304

Priority:

AU1991PK04894 19910304 AU1991PK06108 19910514 AU19920011435 19920304

Probable Assignee: DGS PROPERTY PTY LTD

Assignee(s): (std): DGS PROPERTY PTY LTD

Inventor(s): (std): MITCHINSON ANTHONY KENNETH ; GRIEK CORNELIS JOHANNES ; STOKES JOHN BARRY

Inventor(s): ANTHONY KENNETH MITCHINSON ; CORNELIS JOHANNES GRIEK ; JOHN BARRY STOKES

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199211435 A1	19921210	LSPB	+	published / reissued	
AU652609 B2	19940901	LSGT	+	granted / extensions (spc, cpc, pte)	
AU652609 B2	20120304	PEXP		Calculated Patent Term Expiry	

Title: GUARD RAIL SAFETY SYSTEM

Abstract: A support **post** and safety fence assembly in which the **post** has a telescoping inner and outer tube and is supported on a threaded internal shaft coupled to a floor engaging end and ceiling engaging end preferably formed with claws that have a number of sharp penetrating points for firm engagement with a support surface. In one embodiment, a gravity lock assembly is provided for fixing the relative position of the inner and outer tubes. Dynamic adjustability of the support **post** is provided by internal compression springs.

Classifications:

International (IPC 8-9): A47F5/00 E04G1/22 E04G21/32 E04G25/00 E04H17/16 (Advanced/Invention);

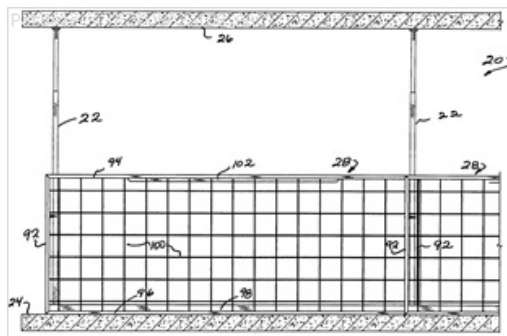
A47F5/00 E04G1/18 E04G21/32 E04G25/00

E04H17/16 (Core/Invention)

CPC: E04G2005/148 E04G21/3233

European: E04G21/32B6B

US: 211/105.6 248/125.1 248/125.8 248/200.1 248/354.1 248/354.3 248/354.4 248/354.5 248/551 256/24 52/126.1 52/126.6



Family:

Publication number	Publication date	Application number	Application date
US2006022186 AA	20060202	US20040901141	20040729
US2007252054 AA	20071101	US20070819525	20070628
US2007252055 AA	20071101	US20070819531	20070628
US2007257180 AA	20071108	US20070819526	20070628
US7255312 BB	20070814	US20040901141	20040729
US7510152 BB	20090331	US20070819531	20070628
US7699276 BB	20100420	US20070819525	20070628

Priority:

US20040901141 20040729 US20070819525 20070628 US20070819531 20070628
US20070819526 20070628

Probable Assignee: INTEGRITY WORDLWIDE INC

Assignee(s): (std): MELIC JONATHAN JONNY ; MELIC JONNY J

Assignee(s): DELL CORE EDGE PROTECTION LTD ; INTEGRITY WORDLWIDE INC ; INTEGRITY WORLDWIDE INC

Inventor(s): (std): MELIC JONNY J ; MELIC JONATHAN JONNY

Inventor(s): MELIC JONNY JONATHON ; MELIC JONNY

Agent(s): GOWLING LAFLEUR HENDERSON LLP; ROBERT F

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2006022186 AA	20060202	LSPB	+	published / reissued	
US2006022186 AA	20070725	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2007252054 AA	20071101	LSPB	+	published / reissued	
US2007252054 AA	20100331	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2007252055 AA	20071101	LSPB	+	published / reissued	
US2007252055 AA	20090311	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2007257180 AA	20071108	LSPB	+	published / reissued	
US2007257180 AA	20100410	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US7255312 BB	20070814	LSGT	+	granted / extensions (spc, cpc, pte)	
US7255312 BB	20070725	LSGT	PAT1	Patented Case	
US7255312 BB	20110208	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7255312 BB	20150213	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8

US7255312 BB	20190213	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7255312 BB	20240729	PEXP		Calculated Patent Term Expiry	
US7510152 BB	20090331	LSGT	+	granted / extensions (spc, cpc, pte)	
US7510152 BB	20090311	LSGT	PAT1	Patented Case	
US7510152 BB	20120928	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7510152 BB	20160902	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INTEGRITY WORDLWIDE INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MELIC, JONATHAN JONNY; REEL/FRAME:039622/0720 EFFECTIVE DATE : 20160829
US7510152 BB	20160928	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7510152 BB	20270628	PEXP		Calculated Patent Term Expiry	
US7699276 BB	20100420	LSGT	+	granted / extensions (spc, cpc, pte)	
US7699276 BB	20100331	LSGT	PAT1	Patented Case	
US7699276 BB	20140415	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7699276 BB	20171017	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7699276 BB	20270628	PEXP		Calculated Patent Term Expiry	

Title: FIXTURE FOR PROTECTIVE RAILING

Abstract: This invention relates to a concrete embedment fixture for mounting of protective railing. The fixture has a tubular member (3), at least one concrete inlet opening (11, 13) at a bottom end of the tubular member, and a plurality of brace elements (5) attached to an outer periphery of the tubular member. Each brace element has a sloping portion, which extends from an upper end towards a lower end thereof in a downwardly and outwardly sloping direction, wherein projections of at least two of the brace elements in a transversal plane of the tubular member extend in mutually different directions. Further, each brace element comprises, at the lower end thereof, an anchoring and supporting portion (5c) arranged to rest on a base and anchor the fixture in concrete.

Classifications:

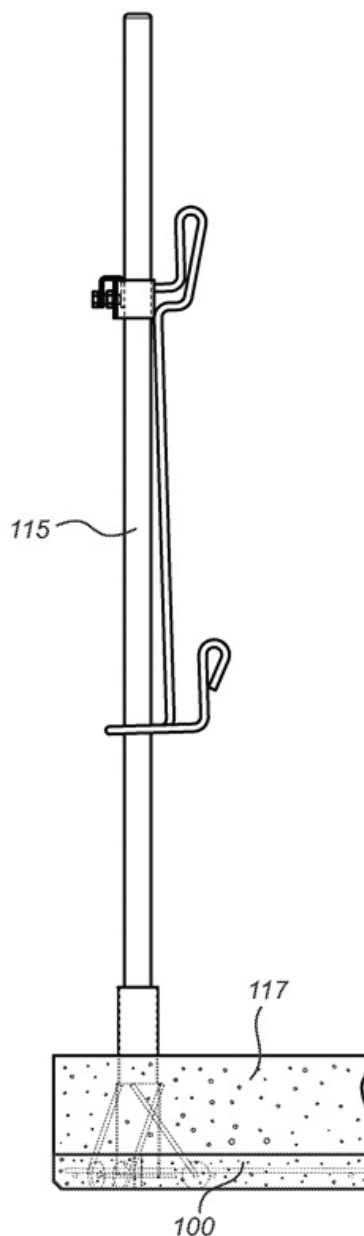
International (IPC 8-9): E04G21/32 F16M13/00 (Advanced/Invention); E04G21/32 (Core/Invention)

CPC: E04G15/061 E04G21/185

European: E04G15/06B E04G21/18C2

US: 248/686 248/686P

PatBase - US2012025056_AA



Family:

Publication number	Publication date	Application number	Application date
CA2742695 AA	20100527	CA20092742695	20091117
DE602008034642 D1	20141113	DE200860034642T	20081121
EP2189595 A1	20100526	EP20080169641	20081121
EP2189595 B1	20141001	EP20080169641	20081121
US2012025056 AA	20120202	US20090130149	20091117
WO10057872 A1	20100527	WO2009EP65283	20091117

Priority:

EP20080169641 20081121 WO2009EP65283 20091117

Probable Assignee: COMBISAFE INT AB

Assignee(s): (std): COMBISAFE INT AKTIEBOLAG ; COMBISAFE INTERNAT AKTIEBOLAG ; SVEDBERG JOAKIM ; WIKMYR ANDERS

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

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Patent	Date recorded	Event group	Code	Event	Details
CA2742695 AA	20100527	LSPB	+	published / reissued	
CA2742695 AA	20140114	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20131119
EP2189595 A1	20100526	LSPB	+	published / reissued	
EP2189595 A1	20110105	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20101126
EP2189595 A1	20110126	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20101227
EP2189595 A1	20110202	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : HR COUNTRY OF REF DOCUMENT : HU COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IS COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LT COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : LV COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : MT COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : NO COUNTRY OF REF DOCUMENT : PL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : RO COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF DOCUMENT : SI COUNTRY OF REF DOCUMENT : SK COUNTRY OF REF DOCUMENT : TR
EP2189595 A1	20140528	LSGT	+INTG	INTENTION TO	EFFECTIVE DATE : 20140430

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EP2189595 B1	20141001	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2189595 B1	20141015	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2189595 B1	20141015	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 689643 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20141015
EP2189595 B1	20141022	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2189595 B1	20141113	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602008034642 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20141113
EP2189595 B1	20150225	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20141001
EP2189595 B1	20150315	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 689643 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20141001
EP2189595 B1	20150325	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
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EP2189595 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150201
EP2189595 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

LAPSED DATE : 20141001

EP2189595 B1	20150430	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150202
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EP2189595 B1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150102
EP2189595 B1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LV NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE

				OFFICE TO EPO]	FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
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EP2189595 B1	20150630	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP2189595 B1	20150702	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602008034642 COUNTRY OF REF DOCUMENT : DE
EP2189595 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
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EP2189595 B1	20150831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001

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EP2189595 B1	20151027	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 : 8
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EP2189595 B1	20160229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT; INVALID AB INITIO LAPSED DATE : 20081121
EP2189595 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20141121
EP2189595 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141001
EP2189595 B1	20161017	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP2189595 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20161017 YEAR OF FEE PAYMENT : 9
EP2189595 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20161026 YEAR OF FEE PAYMENT : 9
EP2189595 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20161130 YEAR OF FEE PAYMENT : 9

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EP2189595 B1	20171127	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 10
EP2189595 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20171127 YEAR OF FEE PAYMENT : 10
EP2189595 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20171130 YEAR OF FEE PAYMENT : 10
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EP2189595 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20180131 YEAR OF FEE PAYMENT : 10
EP2189595 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20190131 YEAR OF FEE PAYMENT : 11
EP2189595 B1	20190702	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP2189595 B1	20190724	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20181121
EP2189595 B1	20190731	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20181122
EP2189595 B1	20191031	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 : 20181130
EP2189595 B1	20281121	PEXP		Calculated Patent Term Expiry	
US2012025056 AA	20120202	LSPB	+	published / reissued	
US2012025056 AA	20110909	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : COMBISAFE INTERNATIONAL AB, SWEDEN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WIKMYR, ANDERS; SVEDBERG, JOAKIM; SIGNING DATES FROM 20110701 TO 20110722; REEL/FRAME:026879/0286
US2012025056 AA	20140318	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO10057872 A1	20100527	LSPB	+	published / reissued	
WO10057872 A1	20110503	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2742695 COUNTRY OF REF DOCUMENT : CA
WO10057872 A1	20110523	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

WO10057872 A1	20110909	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13130149 COUNTRY OF REF DOCUMENT : US
WO10057872 A1	20120215	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 09751940 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: SAFETY RAIL SUPPORT FOR WOOD FRAMED BUILDING CONSTRUCTION OR STRUCTURAL MIDDLE STUD FRAMING

Abstract: A safety rail support for wood framed building construction or structural middle stud framing mounts to a stud for a wooden framed building structure for a horizontal rail to be mounted between a first safety rail support and a second safety rail support. The horizontal rail prevents construction personnel working on the building from falling from a height which could injure or be fatal. The safety rail support includes a stud mount an elongated vertical support, at least one adjustable rail support bracket, and a hanger bracket. The stud mount and the hanger bracket secure the safety rail support to the stud frame of the building structure. The elongated vertical support provides a medium for the forces placed on the horizontal rail to be transferred to the stud of the building structure. The at least one adjustable rail is mounted onto the elongated vertical support in order to support and retain the horizontal rail.

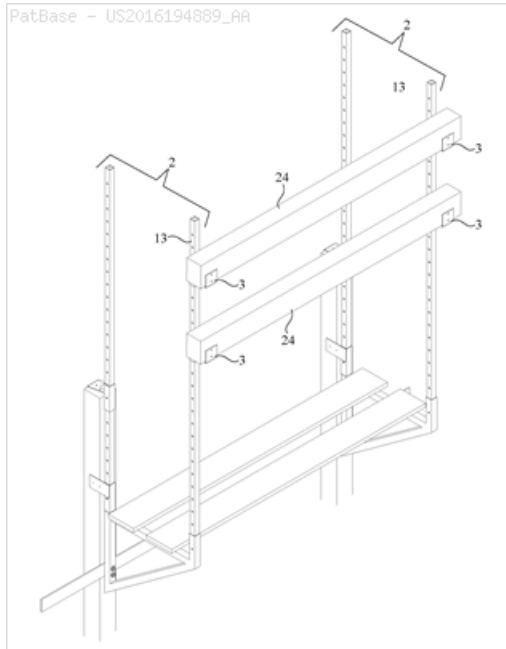
Classifications:

International (IPC 8-9): E04F11/18 E04G21/32 (Advanced/Invention)

CPC: E04G21/3219 E04G5/062

US: 256/65.01

PatBase - US2016194889_AA



Family:

Publication number	Publication date	Application number	Application date
US2016194889 AA	20160707	US20150954361	20151130

Priority:

US20150100738P 20150107 US20150954361 20151130

Probable Assignee: WHITE MICHAEL DEAN

Assignee(s): (std): WHITE MICHAEL DEAN

Inventor(s): (std): WHITE MICHAEL DEAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2016194889 AA	20160707	LSPB	+	published / reissued	
US2016194889 AA	20170927	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	

Title: DURCHSTURZSICHERUNG FUER LICHTBAENDER

Abstract: Source: DE202011051723U1 [DE] Durchsturzsicherung (1) fuer ein Lichtband (8), welches zumindest zwei transparente, gegebenenfalls durchsichtige Abschnitte, die entlang einer gemeinsamen Stossfuge ein Verbindungsprofil (9) aufweisen, umfasst, dadurch gekennzeichnet, dass ein Absperrgelaender vertikale Steher (2), die an der Laengsseite des Lichtbandes (8) vorgesehen und die mittels horizontal angeordneten Stangen (4', 4'') verbunden sind, umfasst.

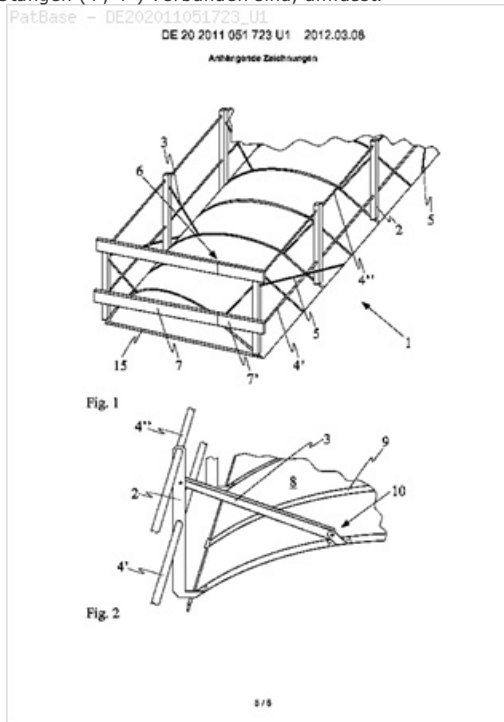
Classifications:

International (IPC 8-9): E04D13/03 E04F11/18

E04G21/32 (Advanced/Invention)

CPC: E04D13/0335 E04F11/1812

European: E04D13/03G E04F11/18F1



Family:

Publication number	Publication date	Application number	Application date
AT12685 U1	20121015	AT20110000543U	20111005
CH705625 A2	20130415	CH20120001235	20120731
CH705625 B1	20160429	CH20120001235	20120731
DE202011051723 U1	20120308	DE201120051723U	20111021

Priority:

AT20110000543 20111005 AT20110000543U 20111005

Probable Assignee: LINHART

Assignee(s): (std): BUCHEGGER WALTER ; LINHART WERNER ; WALTER BUCHEGGER ; WERNER LINHART

Assignee(s): LINHART ; BUCHEGGER

Inventor(s): (std): WALTER BUCHEGGER ; WERNER LINHART ; BUCHEGGER WALTER ; LINHART WERNER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT12685 U1	20121015	LSGT	+	granted / extensions (spc, cpc, pte)	
AT12685 U1	20190615	LSLE	-MM01	LAPSE BECAUSE OF NOT PAYING ANNUAL FEES	EFFECTIVE DATE : 20181031
AT12685 U1	20211005	PEXP		Calculated Patent Term Expiry	
CH705625 A2	20130415	LSPB	+	published / reissued	
CH705625 B1	20160429	LSGT	+	granted / extensions (spc, cpc, pte)	
CH705625 B1	20161115	LSAS	PUE	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIKUNET GMBH, AT OLDPARTY : FORMER OWNER: WERNER LINHART, AT
CH705625 B1	20180228	LSLE	-PL	PATENT CEASED	
CH705625 B1	20320731	PEXP		Calculated Patent Term Expiry	
DE202011051723 U1	20120308	LSGT	+	granted / extensions (spc, cpc, pte)	

DE202011051723 U1	20120308	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20120308
DE202011051723 U1	20141111	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	
DE202011051723 U1	20141218	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	EFFECTIVE DATE : 20141111
DE202011051723 U1	20161104	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PARTYTYPE : OWNER OWNER : LIKUNET GMBH, AT OLDPARTY : FORMER OWNERS: LINHART, WERNER, GAENSERNDORF, AT; BUCHEGGER, WALTER, POECHLARN, AT
DE202011051723 U1	20180501	LSLE	-R157	LAPSE OF IP RIGHT AFTER 6 YEARS	
DE202011051723 U1	20211021	PEXP		Calculated Patent Term Expiry	

Title: UNTERZUGSCHALUNG

Abstract: Source: DE20001517U1 [DE] (Claim1) Unterzugschalung, im wesentlichen umfassend - eine Anzahl von Deckenstuetzen (1), - darauf Laengsjoche (2), - darueber Quertraeger (3), - pro Unterzug (19) - eine Bodenschattungsplatte (6) - und zwei Seitenschalungsplatten (5), - sowie an den Quertraegern (3) loesbar befestigte Unterzugzargen (20), die die Seitenschalungsplatten (5) von aussen stuetzen, gekennzeichnet durch die Merkmale: - die Quertraeger (3) besitzen eine Mehrzahl von Querbohrungen (4), die Unterzugzargen (20) besitzen L-Form mit - einem ersten Schenkel (21), der die Seitenschalungsplatten (5) traegt, - und einem zweiten Schenkel (22), der zweite Schenkel (22) besitzt wenigstens eine Bohrung, die mit den Querbohrungen (4) fluchtet, - ein Achsstift (23) verbindet Quertraeger (3) und Unterzugzarge (20) beweglich, - ein Riegel (24,29) fixiert die Unterzugzarge (20) loesbar am Quertraeger (3).

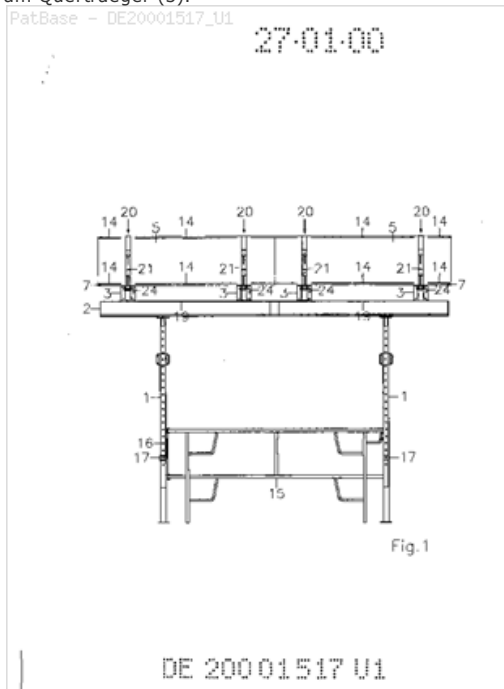
Classifications:

International (IPC 8-9): E04G13/04 (Advanced/Invention);
E04G13/00 (Core/Invention)

International (IPC 1-7): E04G13/04

CPC: E04G13/04

European: E04G13/04

**Family:**

Publication number	Publication date	Application number	Application date
DE10102898 A1	20010823	DE20011002898	20010123
DE20001517 U1	20000427	DE20002001517U	20000127

Priority:

DE20002001517U 20000127 DE20011002898 20010123

Probable Assignee: REDIMA AG ZUG

Assignee(s): (std): REDIMA AG ZUG ; REDIMA ZUG AG

Inventor(s): (std): MAYER BERNHARD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE10102898 A1	20010823	LSPB	+	published / reissued	
DE10102898 A1	20030227	LSSES	+8110	REQUEST FOR EXAMINATION PARAGRAPH 44	
DE10102898 A1	20060126	LSRV	-8131	REJECTION	
DE20001517 U1	20000427	LSGT	+	granted / extensions (spc, cpc, pte)	
DE20001517 U1	20000427	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20000427
DE20001517 U1	20031106	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	EFFECTIVE DATE : 20030829
DE20001517 U1	20061116	LSLE	-R157	LAPSE OF IP RIGHT AFTER 6 YEARS	EFFECTIVE DATE : 20060801
DE20001517 U1	20100127	PEXP		Calculated Patent Term Expiry	

Title: CLIMBING FORMWORK FOR REINFORCED CONCRETE - HAS HEIGHT ADJUSTABLE CLIMBING FRAME AND FORMWORK PLATES SWIVEL MOUNTED AROUND AXIS

Abstract: The formwork plates are swivel mounted around an axis on a support which swivels around an axis running tangentially to the wall of the structure and can be set at various angles of incline to the vertical. The axis around which the plates swivel runs in a plane radial to the wall. Quicker adjustment of the formwork plates after placing in position is possible and the formwork is used for reinforced concrete constructions which have different cross sections at different heights. The climbing frame is height adjustable on the parts which are firmly secured on the structure.

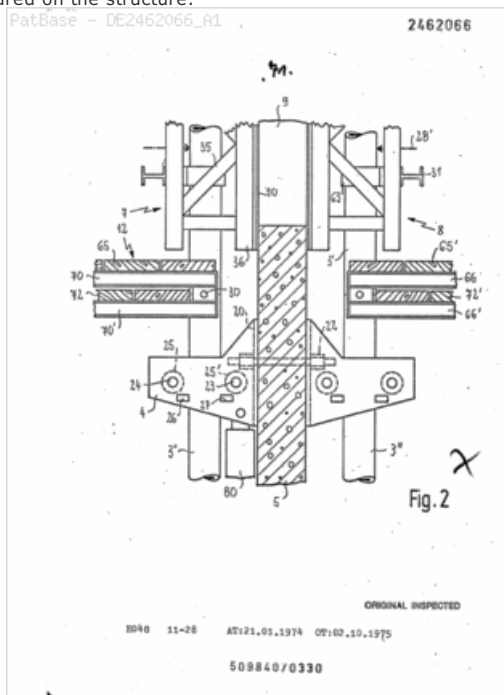
Classifications:

International (IPC 8-9): E04G11/28 (Advanced/Invention);
E04G11/00 (Core/Invention)

International (IPC 1-7): E04G11/28

CPC: E04G11/28

European: E04G11/28



Family:

Publication number	Publication date	Application number	Application date
DE2462066 A1	19751002	DE19742462066	19740121

Priority:

DE19742462066 19740121

Probable Assignee: PERI WERK SCHWOERER KG ARTUR

Assignee(s): (std): PERI WERK SCHWOERER ARTUR KG ; PERI WERK SCHWOERER KG ARTUR

Assignee(s): PERI WERK ARTUR SCHWOERER KG

Inventor(s): (std): KLAISS HANS DIETER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE2462066 A1	19751002	LSPB	+	published / reissued	
DE2462066 A1	19801016	LSSES	+OD	REQUEST FOR EXAMINATION	
DE2462066 A1	19840906	LSRV	-8131	REJECTION	

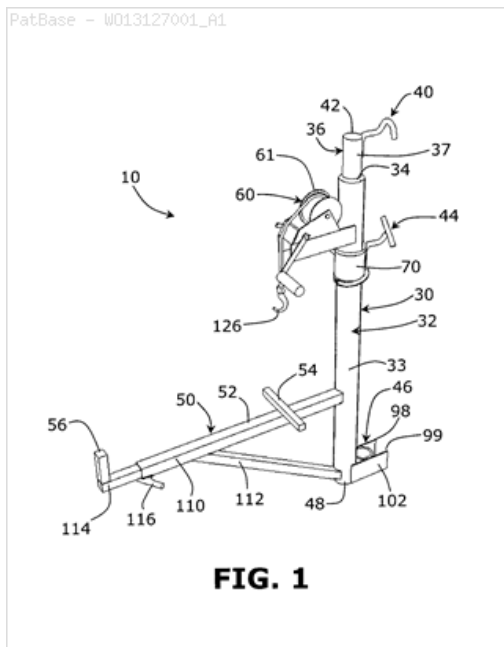
Title: PLATFORM HOIST

Abstract: A platform hoist (10) comprises a telescopic element (30) including elongated telescopic element first and second portions (32) and (36) longitudinally movable relative to each other. The telescopic element second portion (36) includes a second portion attachment (40) attachable to a scaffolding structure (12). The telescopic element first portion (32) includes an actuating assembly (60), the actuating assembly (60) including an actuating assembly attachment (126) attachable to the scaffolding structure and an actuator (61), the actuator (61) being operatively coupled to the actuating assembly attachment (126) to selectively vary a distance between the actuating assembly attachment (126) and the actuator (61). The telescopic element first portion (32) also includes a platform support (50) for at least partially supporting a platform (26). Attaching the second portion attachment (40) and the actuating assembly attachment (126) to the scaffolding structure (12) above the actuator (61) and actuating the actuator (61) to pull the actuating assembly attachment (126) towards the actuator (61) raises the telescopic element first portion (32) relative to the telescopic element second portion (36) and to the scaffolding structure (12).

Classifications:

International (IPC 8-9): B66F11/04 B66F7/02 E04G1/15 E04G1/22 (Advanced/Invention)

CPC: B66F7/02 B66F11/04 E04G5/061 E04G2005/008



Family:

Publication number	Publication date	Application number	Application date
GB201203509 A0	20120411	GB20120003509	20120229
WO13127001 A1	20130906	WO2013CA00193	20130227

Priority:

GB20120003509 20120229

Probable Assignee: LAVOIE MICHEL

Assignee(s): (std): LAVOIE MICHEL

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
GB201203509 A0	20130828	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
WO13127001 A1	20130906	LSPB	+	published / reissued	
WO13127001 A1	20140829	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13127001 A1	20150729	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 13755628 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: Elevatable work facility

Abstract: A scaffolding floor is provided on the upper ends of four expandable and contractible struts. A support frame protrudes downward from the scaffolding floor. An end of a line is connected to the lower end of the support frame and the other end of the line is connected to the fixed part of a hydraulic jack which is provided in the lower part of the struts, so that the scaffolding floor can be elevated or lowered through the line in accordance with the raising or lowering of the hydraulic jack.

Classifications:

International (IPC 8-9): A61F13/15 B66F11/04 B66F9/06 E04G1/22 E04G1/24 E04G3/00 E04G3/28 (Advanced/Invention); E04G1/22 (Advanced/Non-invention);

A61F13/15 B66F11/04 B66F9/06 E04G1/00 E04G1/18 E04G3/00 (Core/Invention)

International (IPC 1-7): B66F11/04 B66F9/06 E04G1/18 E04G1/22 E04G1/24 E04G3/02 E04G3/14

CPC: E04G1/22

European: E04G1/22

US: 182/113 182/115 182/127 182/141

PatBase - US5588500_A

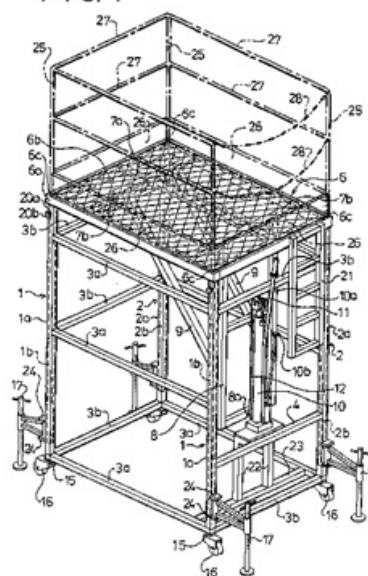
U.S. Patent

Dec. 31, 1996

Sheet 1 of 4

5,588,500

FIG. 1



Family:

Publication number	Publication date	Application number	Application date
DE69408453 D1	19980312	DE19946008453	19941114
DE69408453 T2	19981001	DE19946008453T	19941114
EP0702121 A1	19960320	EP19940117959	19941114
EP0702121 B1	19980204	EP19940117959	19941114
JP8100517 A2	19960416	JP19940247017	19940914
KR19960011023 A	19960420	KR19940030727	19941122
KR960011023 A	19960420	KR19940030727	19941122
TW253924 B	19950811	TW19940110408	19941110
US5588500 A	19961231	US19940346230	19941122

Priority:

JP19940201361 19940803 JP19940247017 19940914

Probable Assignee: JAPAN STEELS INT INC

Assignee(s): (std): JAPAN STEELS INTERNATIONAL INC ; JAPAN STEELS INT INC ; JAPAN STEELS INT KK ; JAPAN STEELS INTERNATL KK ; NIPPON KOTETSU KOKUSAI KK

Assignee(s): NIPPON STEEL INT INC ; KING HOLDING CORP ; KING HOLDING US CORP ; WOLVERINE METAL SPECIALTIES INC ; TFS FASTENING SYSTEMS LLC ; RING SCREW LLC ; SATURN FASTENERS LLC ; US BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; WELLS FARGO FOOTHILL INC COLLATERAL AGENT AS ; US BANK NATIONAL ASSOCIATION AS COLLATERAL AGENT ; WELLS FARGO FOOTHILL INC ; JAPAN STEELS INT ; ACUMENT FASTENING SYSTEMS LLC ; ACUMENT GLOBAL TECHNOLOGIES INC ; ACUMENT INTELLECTUAL PROPERTIES LLC ; AVDEL CHERRY LLC ; AVDEL USA LLC ; BURKLAND TEXTRON INC ; JAPAN STEELS INTERNATIONAL INC TOKIO TOKYO JP ; CAMCAR INTELLECTUAL PROPERTIES LLC ; CHERRY AEROSPACE LLC ; FLEXALLOY INC ; ELCO FASTENING SYSTEMS LLC ; CAMCAR LLC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AS COLLATERAL ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGE

Inventor(s): (std): YONAWARA YOSHIHIRO ; YONAHARA YOSHIHIRO

Inventor(s): YONAHARA YOSHIHIRO C O JAPAN STEELS INT INC TOKYO JP ; YONAHARA YOSHIHIRO C O JAPAN STEELS INT INC TOKYO

Designated states: DE FR GB IT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE69408453 D1	19990311	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	

DE69408453 D1	20000210	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69408453 T2	19981001	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69408453 T2	20141114	PEXP		Calculated Patent Term Expiry	
EP0702121 A1	19960320	LSPB	+	published / reissued	
EP0702121 A1	19961016	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19960821
EP0702121 A1	19970416	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19970304
EP0702121 B1	19980204	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0702121 B1	19981114	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 : 19981114
EP0702121 B1	19990127	LSGT	+26N	NO OPPOSITION FILED	
EP0702121 B1	19990707	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 19981114
EP0702121 B1	19990730	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 : 19990730
EP0702121 B1	19990827	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0702121 B1	19990901	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 19990901
EP0702121 B1	20051114	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 : 20051114
EP0702121 B1	20141114	PEXP		Calculated Patent Term Expiry	
JP8100517 A2	19960416	LSPB	+	published / reissued	
KR19960011023 A	19960420	LSPB	+	published / reissued	
KR960011023 A	19960420	LSPB	+	published / reissued	
TW253924 B	19950811	LSGT	+	granted / extensions (spc, cpc, pte)	
TW253924 B	20141110	PEXP		Calculated Patent Term Expiry	
US5588500 A	19961231	LSGT	+	granted / extensions (spc, cpc, pte)	
US5588500 A	19941122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JAPAN STEELS INTERNATIONAL INC., JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:YONAHARA, YOSHIHIRO; REEL/FRAME:007225/0339 EFFECTIVE DATE : 19941028
US5588500 A	19961219	LSGT	PAT1	Patented Case	
US5588500 A	20001231	LSLE	-LAPS	LAPSE FOR FAILURE	

				TO PAY MAINTENANCE FEES	
US5588500 A	20010306	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20001231
US5588500 A	20070126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERA OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:CAMCAR INTELLECTUAL PROPERTIES, LLC; KING HOLDING CORPORATION; KING HOLDING US CORPORATION; AND OTHERS; REEL/FRAME:018806/0167 EFFECTIVE DATE : 20060811
US5588500 A	20070126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : U.S. BANK NATIONAL ASSOCIATION, AS COLLATERAL AGEN OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:CAMCAR INTELLECTUAL PROPERTIES, LLC; KING HOLDING CORPORATION; KING HOLDING US CORPORATION; AND OTHERS; REEL/FRAME:018806/0296 EFFECTIVE DATE : 20060811
US5588500 A	20070126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO FOOTHILL, INC., AS COLLATERAL AGENT, C OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:CAMCAR INTELLECTUAL PROPERTIES, LLC; KING HOLDING CORPORATION; KING HOLDING US CORPORATION; AND OTHERS; REEL/FRAME:018806/0538 EFFECTIVE DATE : 20060811
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CAMCAR INTELLECTUAL PROPERTIES, LLC, CALIFORNIA OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KING HOLDING CORPORATION, MASSACHUSETTS OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KING HOLDING US CORPORATION, CALIFORNIA OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AVDEL CHERRY LLC, MICHIGAN OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901

US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CHERRY AEROSPACE LLC, RHODE ISLAND OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FLEXALLOY INC., MICHIGAN OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BURKLAND TEXTRON INC., MICHIGAN OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOLVERINE METAL SPECIALTIES, INC., MICHIGAN OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ELCO FASTENING SYSTEMS LLC, MICHIGAN OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CAMCAR LLC, RHODE ISLAND OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TFS FASTENING SYSTEMS LLC, MICHIGAN OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS COLLATERAL AGENT; REEL/FRAME:023273/0086 EFFECTIVE DATE : 20090901
US5588500 A	20090923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RING SCREW LLC, MICHIGAN OLDPARTY : RELEASE OF SECURITY AGREEMENT; ASSIGNORS:CREDIT SUISSE, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT; WILMINGTON TRUST FSB, AS

COLLATERAL AGENT;
REEL/FRAME:023273/0086
EFFECTIVE DATE : 20090901

US5588500 A	20090924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CAMCAR INTELLECTUAL PROPERTIES, LLC, CALIFORNIA OLDPARTY : RELEASE OF SECURITY INTEREST; ASSIGNOR:WELLS FARGO FOOTHILL, INC., AS COLLATERAL AGENT; REEL/FRAME:023273/0891 EFFECTIVE DATE : 20090901
US5588500 A	20090924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KING HOLDING CORPORATION, MASSACHUSETTS OLDPARTY : RELEASE OF SECURITY INTEREST; ASSIGNOR:WELLS FARGO FOOTHILL, INC., AS COLLATERAL AGENT; REEL/FRAME:023273/0891 EFFECTIVE DATE : 20090901
US5588500 A	20090924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KING HOLDING US CORPORATION, CALIFORNIA OLDPARTY : RELEASE OF SECURITY INTEREST; ASSIGNOR:WELLS FARGO FOOTHILL, INC., AS COLLATERAL AGENT; REEL/FRAME:023273/0891 EFFECTIVE DATE : 20090901
US5588500 A	20090924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AVDEL CHERRY LLC, MICHIGAN OLDPARTY : RELEASE OF SECURITY INTEREST; ASSIGNOR:WELLS FARGO FOOTHILL, INC., AS COLLATERAL AGENT; REEL/FRAME:023273/0891 EFFECTIVE DATE : 20090901
US5588500 A	20090924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CHERRY AEROSPACE LLC, RHODE ISLAND OLDPARTY : RELEASE OF SECURITY INTEREST; ASSIGNOR:WELLS FARGO FOOTHILL, INC., AS COLLATERAL AGENT; REEL/FRAME:023273/0891 EFFECTIVE DATE : 20090901
US5588500 A	20090924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FLEXALLOY INC., MICHIGAN OLDPARTY : RELEASE OF SECURITY INTEREST; ASSIGNOR:WELLS FARGO FOOTHILL, INC., AS COLLATERAL AGENT; REEL/FRAME:023273/0891 EFFECTIVE DATE : 20090901
US5588500 A	20090924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BURKLAND TEXTRON INC., MICHIGAN OLDPARTY : RELEASE OF SECURITY INTEREST; ASSIGNOR:WELLS FARGO FOOTHILL, INC., AS COLLATERAL AGENT; REEL/FRAME:023273/0891 EFFECTIVE DATE : 20090901
US5588500 A	20090924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOLVERINE METAL SPECIALTIES, INC., MICHIGAN OLDPARTY : RELEASE OF SECURITY INTEREST; ASSIGNOR:WELLS FARGO FOOTHILL, INC., AS COLLATERAL AGENT; REEL/FRAME:023273/0891 EFFECTIVE DATE : 20090901
US5588500 A	20090924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ELCO FASTENING SYSTEMS LLC, MICHIGAN OLDPARTY : RELEASE OF SECURITY INTEREST; ASSIGNOR:WELLS FARGO

FOOTHILL, INC., AS COLLATERAL
AGENT;
REEL/FRAME:023273/0891
EFFECTIVE DATE : 20090901

US5588500 A 20090924 LSAS AS ASSIGNMENT PARTYTYPE : OWNER
OWNER : CAMCAR LLC, RHODE
ISLAND
OLDPARTY : RELEASE OF
SECURITY INTEREST;
ASSIGNOR:WELLS FARGO
FOOTHILL, INC., AS COLLATERAL
AGENT;
REEL/FRAME:023273/0891
EFFECTIVE DATE : 20090901

US5588500 A 20090924 LSAS AS ASSIGNMENT PARTYTYPE : OWNER
OWNER : TFS FASTENING
SYSTEMS LLC, MICHIGAN
OLDPARTY : RELEASE OF
SECURITY INTEREST;
ASSIGNOR:WELLS FARGO
FOOTHILL, INC., AS COLLATERAL
AGENT;
REEL/FRAME:023273/0891
EFFECTIVE DATE : 20090901

US5588500 A 20090924 LSAS AS ASSIGNMENT PARTYTYPE : OWNER
OWNER : RING SCREW LLC,
MICHIGAN
OLDPARTY : RELEASE OF
SECURITY INTEREST;
ASSIGNOR:WELLS FARGO
FOOTHILL, INC., AS COLLATERAL
AGENT;
REEL/FRAME:023273/0891
EFFECTIVE DATE : 20090901

US5588500 A 20100803 LSAS AS ASSIGNMENT PARTYTYPE : OWNER
OWNER : KING HOLDING
CORPORATION, MICHIGAN
OLDPARTY : RELEASE OF PATENT
SECURITY INTEREST;
ASSIGNOR:WILMINGTON TRUST
FSB, AS THE AGENT;
REEL/FRAME:024776/0651
EFFECTIVE DATE : 20100803

US5588500 A 20100803 LSAS AS ASSIGNMENT PARTYTYPE : OWNER
OWNER : ACUMENT GLOBAL
TECHNOLOGIES, INC., MICHIGAN
OLDPARTY : RELEASE OF PATENT
SECURITY INTEREST;
ASSIGNOR:WILMINGTON TRUST
FSB, AS THE AGENT;
REEL/FRAME:024776/0651
EFFECTIVE DATE : 20100803

US5588500 A 20100803 LSAS AS ASSIGNMENT PARTYTYPE : OWNER
OWNER : ACUMENT
INTELLECTUAL PROPERTIES, LLC,
MICHIGAN
OLDPARTY : RELEASE OF PATENT
SECURITY INTEREST;
ASSIGNOR:WILMINGTON TRUST
FSB, AS THE AGENT;
REEL/FRAME:024776/0651
EFFECTIVE DATE : 20100803

US5588500 A 20100803 LSAS AS ASSIGNMENT PARTYTYPE : OWNER
OWNER : KING HOLDING US
CORPORATION, MICHIGAN
OLDPARTY : RELEASE OF PATENT
SECURITY INTEREST;
ASSIGNOR:WILMINGTON TRUST
FSB, AS THE AGENT;
REEL/FRAME:024776/0651
EFFECTIVE DATE : 20100803

US5588500 A 20100803 LSAS AS ASSIGNMENT PARTYTYPE : OWNER
OWNER : CAMCAR LLC,
MICHIGAN
OLDPARTY : RELEASE OF PATENT
SECURITY INTEREST;
ASSIGNOR:WILMINGTON TRUST
FSB, AS THE AGENT;
REEL/FRAME:024776/0651
EFFECTIVE DATE : 20100803

US5588500 A 20100803 LSAS AS ASSIGNMENT PARTYTYPE : OWNER
OWNER : RING SCREW LLC,
MICHIGAN
OLDPARTY : RELEASE OF PATENT
SECURITY INTEREST;
ASSIGNOR:WILMINGTON TRUST
FSB, AS THE AGENT;
REEL/FRAME:024776/0651
EFFECTIVE DATE : 20100803

US5588500 A	20100803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ELCO FASTENING SYSTEMS LLC, MICHIGAN OLDPARTY : RELEASE OF PATENT SECURITY INTEREST; ASSIGNOR:WILMINGTON TRUST FSB, AS THE AGENT; REEL/FRA:024776/0651 EFFECTIVE DATE : 20100803
US5588500 A	20100803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FLEXALLOY, INC., MICHIGAN OLDPARTY : RELEASE OF PATENT SECURITY INTEREST; ASSIGNOR:WILMINGTON TRUST FSB, AS THE AGENT; REEL/FRA:024776/0651 EFFECTIVE DATE : 20100803
US5588500 A	20100803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SATURN FASTENERS, INC., MICHIGAN OLDPARTY : RELEASE OF PATENT SECURITY INTEREST; ASSIGNOR:WILMINGTON TRUST FSB, AS THE AGENT; REEL/FRA:024776/0651 EFFECTIVE DATE : 20100803
US5588500 A	20100803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AVDEL USA LLC, MICHIGAN OLDPARTY : RELEASE OF PATENT SECURITY INTEREST; ASSIGNOR:WILMINGTON TRUST FSB, AS THE AGENT; REEL/FRA:024776/0651 EFFECTIVE DATE : 20100803
US5588500 A	20100803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ACUMENT FASTENING SYSTEMS LLC, MICHIGAN OLDPARTY : RELEASE OF PATENT SECURITY INTEREST; ASSIGNOR:WILMINGTON TRUST FSB, AS THE AGENT; REEL/FRA:024776/0651 EFFECTIVE DATE : 20100803
US5588500 A	20100803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOLVERINE METAL SPECIALTIES, INC., MICHIGAN OLDPARTY : RELEASE OF PATENT SECURITY INTEREST; ASSIGNOR:WILMINGTON TRUST FSB, AS THE AGENT; REEL/FRA:024776/0651 EFFECTIVE DATE : 20100803
US5588500 A	20180125	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5588500 A	20180125	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5588500 A	20141122	PEXP		Calculated Patent Term Expiry	

Title: SAFETY RAILINGS FOR CONSTRUCTING MULTI-LEVEL SCAFFOLDING COMPRISE U-SHAPED BARS WITH SUPPORT DEVICES AT ENDS OF SUPPORT RODS TO FIT AND SECURE ON RAIL OF TOPMOST SCAFFOLD STAGE

Abstract: The safety railings comprise U-shaped bars (15) with two protruding support rods (17,18) which in use run parallel to an adjacent the two vertical **posts** of the scaffold. The two support rods each support a support device (19) which can be set on a rail of the topmost scaffold stage and secures the U-shaped bar at the bottom. A holder (21,22) is set on the support rod closer to the railing web (16) than the support device and fitted from the side onto the facing **post** of the topmost stage to secure the U shaped bar at right angles to the plane. At least one of the holders has a locking device.

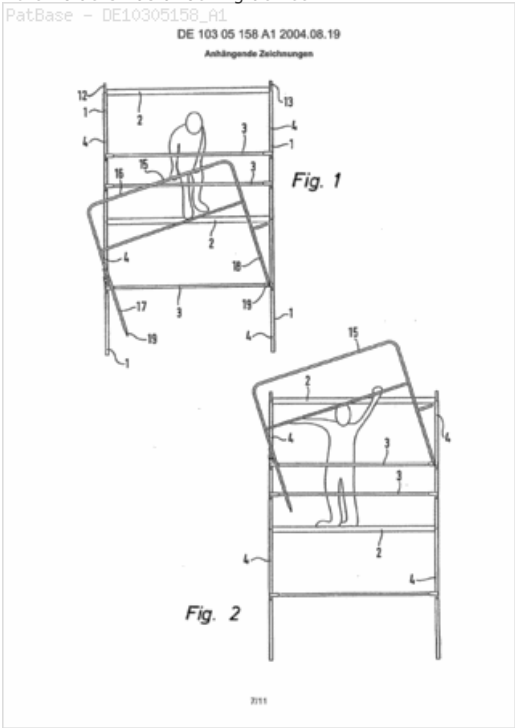
Classifications:

International (IPC 8-9): E04G5/14 (Advanced/Invention); E04G5/14 (Core/Invention)

International (IPC 1-7): E04G1/26

CPC: E04G5/147 E04G5/14

European: E04G1/26B E04G5/14



Family:

Publication number	Publication date	Application number	Application date
DE10305158 A1	20040819	DE20031005158	20030208

Priority:

DE20031005158 20030208

Probable Assignee: ALTRAD BAUMANN GMBH

Assignee(s): (std): ALTRAD BAUMANN GMBH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE10305158 A1	20040819	LSPB	+	published / reissued	
DE10305158 A1	20061214	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	

Title: SUPPORT STRUCTURE FOR OVERHEAD CONCRETE MOLDING FORMS

Abstract: Floor and ceiling supports, both generally V-shaped, are connected by a central **post**-like intervening spacer structure portion, the open arms of the V bearing against the ceiling, to be poured, and the floor or support, which may be a previously poured cement construction, respectively; the V-shaped support portions are preferably made of welded pipes, connected with the central spacer portion by holes and cross pins fitting into the holes to adjustably space the floor and ceiling portions, and permit limited swinging movement to allow for slight misalignments. The erected support structure of the double-V form is laterally maintained in position by stiffening members, preferably clamped to the **post**-like spacer and providing laterally extending clamp connections for pipe length to hold the support structure in lateral alignment.

Classifications:

International (IPC 8-9): E04G11/48 E04G25/00 (Advanced/Invention)

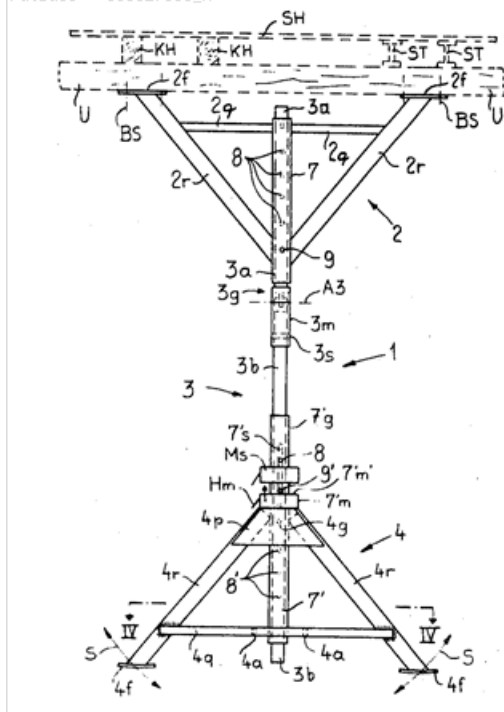
International (IPC 1-7): E04G11/12 E04G11/48 E04G25/00

CPC: E04G11/48

European: E04G11/48

US: 248/35.4P 248/354.5 248/357 249/18 52/263 52/632 52/646

PatBase - US3827665_A

**Family:**

Publication number	Publication date	Application number	Application date
CH542974 A	19731015	CH19720001724	19720207
DD104123 C	19740220	DD19730168663	19730205
DE2302016 A1	19730823	DE19732302016	19730116
DE7212306 U	19720629	DE19720012306U	19720330
FR2171756 A5	19730921	FR19730003986	19730205
IT978793 A	19740920	IT19730020009	19730205
JP48097329 A2	19731212	JP19730014374	19730206
NL7300856 A	19730809	NL19730000856	19730119
US3827665 A	19740806	US19730329729	19730205

Priority:

CH19720001724 19720207

Probable Assignee: KISTLER LAURENZ CH

Assignee(s): (std): KISTLER L ; KISTLER LAURENZ

Assignee(s): KISTLER LAURENZ CH ; KISTLER LAURENZ ZUG SCHWEIZ ; KISTLER L CH

Inventor(s): (std): KISTLER L ; KISTLER LAURENZ ; LAURENZ KISTLER

Inventor(s): KISTLER LAURENZ ZUG SCHWEIZ ; KISTLER L CH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CH542974 A	19731015	LSGT	+	granted / extensions (spc, cpc, pte)	
CH542974 A	19760915	LSLE	-PL	PATENT CEASED	
CH542974 A	19920207	PEXP		Calculated Patent Term Expiry	
DD104123 C	19740220	LSGT	+	granted / extensions (spc, cpc, pte)	
DD104123 C	19910205	PEXP		Calculated Patent Term Expiry	
DE2302016 A1	19730823	LSPB	+	published / reissued	
DE7212306 U	19720629	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2171756 A5	19730921	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2171756 A5	19780414	LSLE	-ST	NOTIFICATION OF LAPSE	

FR2171756 A5	19930205	PEXP		Calculated Patent Term Expiry
IT978793 A	19740920	LSGT	+	granted / extensions (spc, cpc, pte)
IT978793 A	19930205	PEXP		Calculated Patent Term Expiry
JP48097329 A2	19731212	LSPB	+	published / reissued
NL7300856 A	19730809	LSPB	+	published / reissued
US3827665 A	19740806	LSGT	+	granted / extensions (spc, cpc, pte)

Title: NUEVO TABLON APLICABLE EN ANDAMIOS PARA LA CONSTRUCCION.

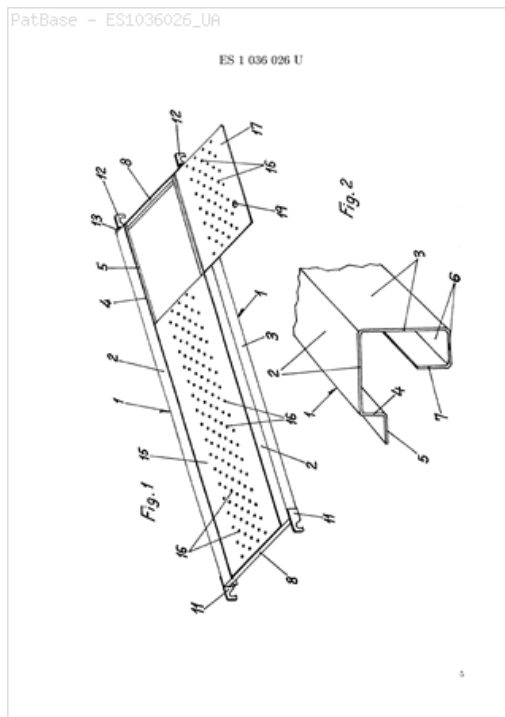
Abstract: Source: ES1036026U [ES] 1. NUEVO TABLON APLICABLE EN ANDAMIOS PARA LA CONSTRUCCION, ESENCIALMENTE CARACTERIZADO POR COMPRENDER DOS PERFILES LONGITUDINALES APLICADOS EN LOS LATERALES DEL TABLON, CUYOS PERFILES LONGITUDINALES OBTENIDOS DE PLANCHAS DE HIERRO PLEGADAS, PRESENTAN DOS PLANOS A ESCUADRA, UNO SUPERIOR HORIZONTAL QUE POR LA PARTE INTERNA DISPONE DE UN PEQUEÑO PLEGADO DESCENDENTE, SEGUIDO DE OTRO PLEGADO FINAL HORIZONTAL EN VOLADIZO, FORMANDO UN ALOJAMIENTO LONGITUDINAL DONDE SE ALOJA Y APOYA EL PISO DEL TABLON DE PLANCHAS DE HIERRO Y PROVISTO DE RUGOSIDADES, SIENDO EL OTRO PLANO A ESCUADRA DE LOS PERFILES LONGITUDINALES, LA CARA VISTA EXTERNA VERTICAL, QUE POR EL EXTREMO INFERIOR LLEVA UNA DOBLEZ O PLEGADO HACIA EL INTERIOR SEGUIDA DE UNA ULTIMA DOBLEZ O PLEGADO VERTICAL ASCENDENTE FORMANDO UN A MODO DE CAJEADO QUE SIRVE PARA MONTAR POR SOLDADURA LOS TESTEROS TRANSVERSALES DE LA ESTRUCTURA GENERAL, UTILIZANDOSE ASIMISMO EL MENCIONADO CAJEADO, DE GUIA EN EL DESPLAZAMIENTO DEL ENGANCHE TELESCOPICO REGULABLE QUE SE FIJA A LOS TUBOS DEL ANDAMIO. **Machine**

translation: 1. New plank APPLICABLE IN scaffolds for construction, essentially characterized by comprising two longitudinal profiles APPLIED ON THE SIDES OF THE plank, whose longitudinal profiles obtained from iron plate folded, have two planes, one upper horizontal square BY THE INTERNAL PART HAS A SMALL downward, FOLLOWED BY ANOTHER FINAL FOLDING FOLDING HORIZONTAL CANTILEVERED, FORMING A LONGITUDINAL HOUSING WHERE IT IS HOUSED AND SUPPORTS THE FLOOR OF THE PLANK OF IRON AND PROVIDED WITH ridges, BEING THE OTHER PLANE SQUARE OF THE LONGITUDINAL profiles, the vertical face external view, WHICH BY THE LOWER END CARRIES A BENDING OR FOLDING TOWARD THE INTERIOR FOLLOWED BY A FINAL FOLD UPWARD VERTICAL FOLDING OR FORMING A WAY OF Recess WHICH SERVES FOR MOUNTING BY WELDING THE ENDS CROSS SECTIONS OF THE STRUCTURE, said recess, ALSO USED IN THE DISPLACEMENT OF THE adjustable telescopic hitch QUESE GUIDE FIXED TO THE TUBES OF THE scaffold.

Classifications:

International (IPC 8-9): E04G5/08 (Advanced/Invention);
E04G5/00 (Core/Invention)

International (IPC 1-7): E04G5/08



Family:

Publication number	Publication date	Application number	Application date
ES1036026 UA	19970701	ES19960003332U	19961226
ES1036026 Y1	19971216	ES19960003332U	19961226
ES1036026 YA	19971216	ES19960003332U	19961226

Priority:

ES19960003332U 19961226

Probable Assignee:

AZPEITIA URENA PABLO

Assignee(s): (std):

AZPEITIA URENA PABLO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES1036026 UA	19970701	LSPB	+	published / reissued	
ES1036026 Y1	19971216	LSGT	+	granted / extensions (spc, cpc, pte)	
ES1036026 Y1	20090501	LSLE	-FD1K	UTILITY MODEL LAPSED	EFFECTIVE DATE : 20061227
ES1036026 Y1	20061226	PEXP		Calculated Patent Term Expiry	
ES1036026 YA	19971216	LSGT	+	granted / extensions (spc, cpc, pte)	
ES1036026 YA	20061226	PEXP		Calculated Patent Term Expiry	

Title: PREFABRICATED BUILDING CONSTRUCTION

Abstract: 1. A prefabricated structure having upright walls composed of substantially horizontal courses of building blocks, the upright walls defining a substantially closed shape of the structure in horizontal section and courses of the building blocks extending around the contour of the walls in horizontal section, the structure including at least one reinforcing piece being located so as to extend between adjacent courses of blocks and being shaped to extend around at least a part of the contour of the walls between adjacent courses of building blocks, the reinforcing piece being embedded within grout so as to form a reinforced beam extending between adjacent courses and following the contour of the walls along the length of the reinforcing piece, the reinforced beam extending around the substantially closed shape of the structure, the structure further including a transverse reinforcing rod extending transverse to the lines of the courses of blocks and through aligned holes in the blocks of the courses, the transverse reinforcing rod being contained within a passage defined by the aligned holes, the passage being filled with grout so as to form an upright reinforced column, the generally horizontal reinforced beam and the upright reinforced column contributing to rigidity of the structure so that the structure can be transported from the site of its construction to another site for use.

Classifications:

International (IPC 8-9): B28B11/00 B28B23/00 E04B1/04 E04B1/343 E04B2/24 E04B2/26 E04C2/04 E04G21/14

E04G21/16 (Advanced/Invention);

B28B11/00 B28B23/00 E04B1/02 E04B1/343 E04B2/14 E04C2/04

E04G21/14 E04G21/16 (Core/Invention)

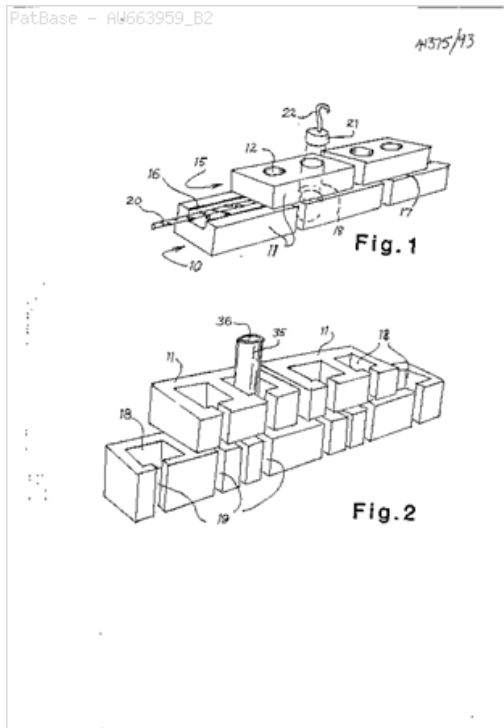
International (IPC 1-7): B66F7/28 E04B1/04 E04B1/343 E04B2/24

E04B2/26 E04C2/40 E04C2/46 E04C2/50 E04G21/16

CPC: E04G21/147 E04G21/142 B28B11/00 B28B23/005 E04C2/041 E04C2002/002

European: B28B11/00 B28B23/00S E04C2/04B E04G21/14B P04C2/00A1

PatBase - AU663959_B2

**Family:**

Publication number	Publication date	Application number	Application date
AU198947112 A1	19900628	AU19890047112	19891221
AU199335303 A1	19930603	AU19930035303	19930317
AU199341375 A1	19930902	AU19930041375	19930618
AU635233 B2	19930318	AU19890047112	19891221
AU638928 B2	19930708	AU19930035303	19930317
AU638928 B3	19930708	AU19930035303	19930317
AU663959 B2	19951026	AU19930041375	19930618

Priority:

AU1988PJ02069 19881221 AU19890047112 19891221 AU19930035303 19930317
 AU19930041375 19930618

Probable Assignee: BARRIER ENGINEERING AND CONSTRU

Assignee(s): (std): BARRIER ENGINEERING AND CONSTRU

Assignee(s): BARRIER ENGINEERING AND CONSTRUCTION CO PTY LTD ; LANCORD PTY LTD

Inventor(s): (std): MCCABE JOHN O CONNOR ; BARKSHIRE ROBERT

Inventor(s): JOHN O CONNOR MCCABE ; ROBERT BARKSHIRE

Agent(s): GADENS LAWYERS; PATENT ATTORNEY SERVICES

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU198947112 A1	19900628	LSPB	+	published / reissued	
AU199335303 A1	19930603	LSPB	+	published / reissued	
AU199341375 A1	19930902	LSPB	+	published / reissued	
AU635233 B2	19930318	LSGT	+	granted / extensions (spc, cpc, pte)	
AU635233 B2	20091221	PEXP		Calculated Patent Term Expiry	
AU638928 B2	19930708	LSGT	+	granted / extensions (spc, cpc, pte)	

AU638928 B2	20130317	PEXP		Calculated Patent Term Expiry
AU638928 B3	19930708	LSGT	+	granted / extensions (spc, cpc, pte)
AU638928 B3	20130317	PEXP		Calculated Patent Term Expiry
AU663959 B2	19951026	LSGT	+	granted / extensions (spc, cpc, pte)
AU663959 B2	20130618	PEXP		Calculated Patent Term Expiry

Title: Erection workbench for constructing a frame

Abstract: The present invention provides a frame constructing method and an erection workbench for constructing frames for reducing the cost for assembling frames, for making it possible to execute the construction works under any weather conditions, further for shortening the term of works, and for enabling to improve safety in the executions, to automate the executions and to save labor. The erection workbench for constructing frames in the present invention comprises an extension column (2) provided at the inside of four column members (C) composing the minimum unit of the frames, a workbench (1) erected between the intermediate portions of the extension column (2), a roof (4) or a workbench (8) erected between the top portions of the extension column (2), and a lifting crane (3) suspended from the workbench (1) or the roof (4) or the extension column (2), and the extension column (2) is composed of a fixed column (2a) supported to a beam member (B) at the downstairs side and a column base (2b) connected to the lower end of the fixed column (2a) and expandable and retractable with respect to the fixed column (2a).

Classifications:

International (IPC 8-9): E04B1/35 E04G21/14 E04G21/16

E04G3/28 (Advanced/Invention);

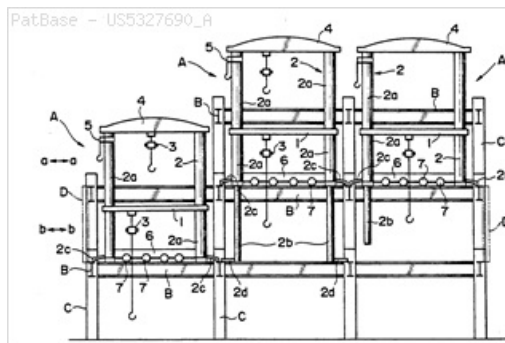
E04B1/35 E04G21/14 E04G21/16 (Core/Invention)

International (IPC 1-7): B66B9/00 E04B1/00 E04B1/35 E04G21/14 E04G21/16 E04G3/00

CPC: E04G3/28 E04G21/16

European: E04G21/16 E04G3/00G E04G3/28

US: 182/141 52/118 52/123.1 52/125.2 52/29 52/290 52/741.1 52/745.1



Family:

Publication number	Publication date	Application number	Application date
AU199183881 A1	19920409	AU19910083881	19910913
AU651616 B2	19940728	AU19910083881	19910913
DE69111018 D1	19950810	DE19916011018	19911008
DE69111018 T2	19960201	DE19916011018T	19911008
EP0480683 A1	19920415	EP19910309228	19911008
EP0480683 B1	19950705	EP19910309228	19911008
JP1997179 C3	19951208	JP19900270059	19901008
JP1997181 C3	19951208	JP19900334233	19901130
JP2002936 C3	19951220	JP19910148372	19910620
JP4146372 A2	19920520	JP19900270059	19901008
JP4203070 A2	19920723	JP19900334233	19901130
JP4297665 A2	19921021	JP19910148372	19910620
JP7018246 B4	19950301	JP19900270059	19901008
JP7018252 B4	19950301	JP19910148372	19910620
JP7021250 B4	19950308	JP19900334233	19901130
US5327690 A	19940712	US19910772707	19911007
US5371993 A	19941213	US19940209296	19940310

Priority:

JP19900270059 19901008 JP19900334233 19901130 JP19910011960 19910201
 JP19910148372 19910620 US19910772707 19911007 US19940209296 19940310

Probable Assignee: KAJIMA CORP

Assignee(s): (std): KAJIMA CORP

Assignee(s): KAJIMA CORP TOKIO TOKYO JP

Inventor(s): (std): SAITO MINORU ; MAKOTO SAITO ; SAITO MAKOTO C O KAJIMA CORPOR ; SAITO MAKOTO

Inventor(s): SAITO MAKOTO C O KAJIMA CORPORATION ; SAITO MAKOTO C O KAJIMA CORP ; SAITO MAKOTO C O KAJIMA CORPORATION TOKYO 107 JP

Agent(s): FB RICE; FB RICE PTY LTD

Designated states: DE FR GB

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199183881 A1	19920409	LSPB	+	published / reissued	
AU651616 B2	19940728	LSGT	+	granted / extensions (spc, cpc, pte)	
AU651616 B2	20000413	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU651616 B2	20110913	PEXP		Calculated Patent Term Expiry	
DE69111018 D1	19960808	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69111018 D1	20001214	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	

DE69111018 T2	19960201	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69111018 T2	20111008	PEXP		Calculated Patent Term Expiry	
EP0480683 A1	19920415	LSPB	+	published / reissued	
EP0480683 A1	19921223	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19921015
EP0480683 A1	19940511	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19940329
EP0480683 B1	19950705	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0480683 B1	19960703	LSGT	+26N	NO OPPOSITION FILED	
EP0480683 B1	19981009	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 19981009 YEAR OF FEE PAYMENT : 8
EP0480683 B1	19981009	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 19981009 YEAR OF FEE PAYMENT : 8
EP0480683 B1	19981016	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 19981016 YEAR OF FEE PAYMENT : 8
EP0480683 B1	19991008	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19991008
EP0480683 B1	20000531	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 19991008
EP0480683 B1	20000630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20000630
EP0480683 B1	20000801	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20000801
EP0480683 B1	20000811	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0480683 B1	20111008	PEXP		Calculated Patent Term Expiry	
JP1997179 C3	19951208	LSGT	+	granted / extensions (spc, cpc, pte)	
JP1997179 C3	20101008	PEXP		Calculated Patent Term Expiry	
JP1997181 C3	19951208	LSGT	+	granted / extensions (spc, cpc, pte)	
JP1997181 C3	20101130	PEXP		Calculated Patent Term Expiry	
JP2002936 C3	19951220	LSGT	+	granted / extensions (spc, cpc, pte)	
JP2002936 C3	20110620	PEXP		Calculated Patent Term Expiry	
JP4146372 A2	19920520	LSPB	+	published / reissued	
JP4203070 A2	19920723	LSPB	+	published / reissued	
JP4297665 A2	19921021	LSPB	+	published / reissued	
JP7018246 B4	19950301	LSPB	+	published / reissued	
JP7018252 B4	19950301	LSPB	+	published / reissued	
JP7018252 B4	19950912	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO	TEXT : JAPANESE INTERMEDIATE CODE: A01

				GRANT A REGISTRATION (UTILITY MODEL)	EFFECTIVE DATE : 19950912
JP7021250 B4	19950308	LSPB	+	published / reissued	
US5327690 A	19940712	LSGT	+	granted / extensions (spc, cpc, pte)	
US5327690 A	19911206	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KAJIMA CORPORATION, JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:SAITO, MAKOTO; REEL/FRAME:005935/0126 EFFECTIVE DATE : 19911107
US5327690 A	19961015	LSRE	CC	CERTIFICATE OF CORRECTION	
US5327690 A	19980112	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5327690 A	20020712	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5327690 A	20020813	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5327690 A	20020813	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5327690 A	20020910	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20020712
US5327690 A	20111007	PEXP		Calculated Patent Term Expiry	
US5371993 A	19941213	LSGT	+	granted / extensions (spc, cpc, pte)	
US5371993 A	19980615	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5371993 A	20021213	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5371993 A	20030115	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5371993 A	20030115	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5371993 A	20030211	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20021213
US5371993 A	20140310	PEXP		Calculated Patent Term Expiry	

Title: Formwork system for concrete floors comprising a floor joist

Abstract: A formwork system for a concrete floor provided with a floor joist, comprising side form elements for the lateral surfaces of the floor joist, the sheathing of the side form elements being fastened to frame pieces extending perpendicularly to the longitudinal axis of the floor joist, further bottom form elements having at least one sheathing for the underside of the floor joist, and devices for interconnecting the side form elements, characterized in that at least the side form elements (1, 2, 61, 130, 131) of one side are pivotally suspended from the ceiling formwork (girder 65) and that the side form elements are interconnected by fastening means (7, 9, 148) that can be released for stripping.

Classifications:

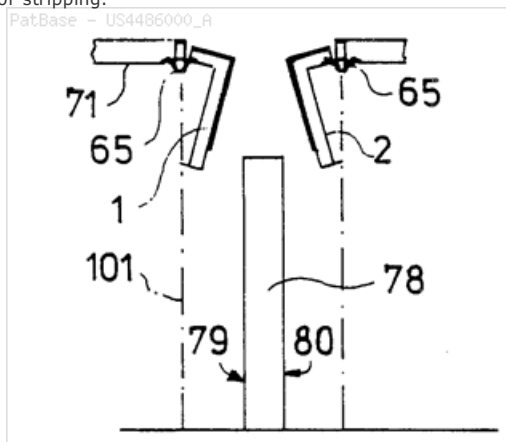
International (IPC 8-9): E04G11/46 E04G13/04 (Advanced/Invention); E04G11/00 E04G13/00 (Core/Invention)

International (IPC 1-7): E04G11/38 E04G11/40 E04G11/46 E04G11/48 E04G13/04 E04G13/4

CPC: E04G11/40 E04G11/46 E04G13/04

European: E04G11/40 E04G11/46 E04G13/04

US: 249/137 249/219.1 249/219R 249/23 249/28



Family:

Publication number	Publication date	Application number	Application date
AT6165 E	19840215	AT19810108151T	19811009
DE3140142 A1	19820429	DE19813140142	19811009
DE3140142 C2	19891214	DE19813140142	19811009
DE3140142 C3	19891214	DE19813140142	19811009
DE3153291 C2	19871022	DE19813153291	19811009
EP0049880 A1	19820421	EP19810108151	19811009
EP0049880 B1	19840208	EP19810108151	19811009
ES506152 A0	19820901	ES19810506152	19811009
ES8207259 A1	19820901	ES19810506152	19811009
US4486000 A	19841204	US19820431924	19820930

Priority:

DE19803038348 19801010 US19810307952 19811002 DE19813140142 19811009
DE19813153291 19811009 EP19810108151 19811009

Probable Assignee: PERI WERK ARTUR SCHWORER GMBH AND CO KG

Assignee(s): (std): PERI WERK SCHWOERER ARTUR KG ; PERI WERK SCHWOERER KG ARTUR

Assignee(s): PERI-WERK ARTUR SCHWOERER GMBH AND CO KG 7912 WEISSENHORN DE ; PERI WERK ARTUR SCHWOERER GMBH AND CO KG ; PERI WERK ARTUR SCHWOERER GMBH AND CO KG 7912 WEISSENHORN DE ; PERI WERK ARTUR SCHWOERER GMBH AND COKG ; PERI WERK ARTUR SCHWORER GMBH ; PERI WERK ARTUR SCHWORER GMBH AND CO KG ; PERI WERK ARTUR SCHWORER GMBH AND COKG

Inventor(s): (std): SCHWORER ARTUR ; KLAISS DIETER

Inventor(s): VERZICHT DES ERFINDERS AUF NENNUNG ; TEILNICHTNENNUNG DES ERFINDERS BEANTRAGT ; SCHWOERER ARTUR

Designated states: AT BE CH FR GB IT LI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT6165 E	19840215	LSGT	+	granted / extensions (spc, cpc, pte)	
AT6165 E	19950715	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT6165 E	20011009	PEXP		Calculated Patent Term Expiry	
DE3140142 A1	19820429	LSPB	+	published / reissued	
DE3140142 A1	19820429	LSSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE3140142 A1	19860703	LSGT	+D2	GRANT AFTER EXAMINATION	
DE3140142 A1	19861106	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE3140142 A1	19891026	LSOP	+8366	RESTRICTED MAINTAINED AFTER OPPOSITION PROCEEDINGS	

DE3140142 C2	19891214	LSGT	+	granted / extensions (spc, cpc, pte)	
DE3140142 C2	19891214	LSRE	+D4	PATENT MAINTAINED RESTRICTED	
DE3140142 C2	19951005	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE3140142 C3	19891214	LSGT	+	granted / extensions (spc, cpc, pte)	
DE3153291 C2	19871022	LSGT	+	granted / extensions (spc, cpc, pte)	
DE3153291 C2	19850919	LSSES	+8110	REQUEST FOR EXAMINATION PARAGRAPH 44	
DE3153291 C2	19871022	LSGT	+D2	GRANT AFTER EXAMINATION	
DE3153291 C2	19880421	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE3153291 C2	19951005	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
EP0049880 A1	19820421	LSPB	+	published / reissued	
EP0049880 A1	19820908	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19820417
EP0049880 B1	19840208	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0049880 B1	19841017	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 19841017 YEAR OF FEE PAYMENT : 4
EP0049880 B1	19841122	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 19841122 YEAR OF FEE PAYMENT : 4
EP0049880 B1	19841231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 19841231 YEAR OF FEE PAYMENT : 4
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EP0049880 B1	19871031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE LAPSED DATE : 19871031
EP0049880 B1	19871031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH LAPSED DATE : 19871031
EP0049880 B1	19871031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI LAPSED DATE : 19871031
EP0049880 B1	19880430	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : PERI-WERK ARTUR SCHWORER G.M.B.H. & CO. K.G. EFFECTIVE DATE : 19871031
EP0049880 B1	19880630	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0049880 B1	19891031	LSFE	ITTA	IT: LAST PAID ANNUAL FEE	REF COUNTRY CODE : EP
EP0049880 B1	19900629	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR LAPSED DATE : 19900629
EP0049880 B1	19900824	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0049880 B1	19910916	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 19910916 YEAR OF FEE PAYMENT : 11
EP0049880 B1	19921009	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : GB

EP0049880 B1	19930609	LSLE	-GBPC	POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO] GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	LAPSED DATE : 19921009 REF COUNTRY CODE : EP EFFECTIVE DATE : 19921009
EP0049880 B1	19931031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 19931031 YEAR OF FEE PAYMENT : 13
EP0049880 B1	19941009	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT LAPSED DATE : 19941009
EP0049880 B1	20011009	PEXP		Calculated Patent Term Expiry	
ES8207259 A1	19820901	LSGT	+	granted / extensions (spc, cpc, pte)	
ES8207259 A1	19970401	LSLE	-FD1A	PATENT LAPSED	EFFECTIVE DATE : 19970203
ES8207259 A1	20020901	PEXP		Calculated Patent Term Expiry	
US4486000 A	19841204	LSGT	+	granted / extensions (spc, cpc, pte)	
US4486000 A	19820930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PERI-WERK ARTUR SCHWORER GMBH & CO. KG, RUDOLF-DIE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:KLAISS, DIETER; REEL/FRAME:004057/0112 EFFECTIVE DATE : 19820927
US4486000 A	19820930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PERI-WERK ARTUR SCHWORER GMBH & CO. KG, GERMANY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KLAISS, DIETER; REEL/FRAME:004057/0112 EFFECTIVE DATE : 19820927
US4486000 A	19841005	LSGT	PAT1	Patented Case	
US4486000 A	19880531	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4486000 A	19911213	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4486000 A	19961201	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4486000 A	19970211	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19961204
US4486000 A	20180123	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4486000 A	20180123	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

Title: Lifting platform

Abstract: The lifting platform possesses a fixed base frame (6) and a working platform (1), which is guided thereon such that it can be adjusted and fixed in terms of height, and an adjusting device (7) which is arranged on the base frame (6) and has an adjusting member (8) which can be driven by said adjusting device in the adjusting direction of the working platform (1). A load platform (2) is arranged on the working platform (1) and is guided on said working platform (1) such that it can be adjusted and fixed in terms of height. The working platform (1) and the load platform (2) possess the same adjusting device. The adjusting member (8) only engages on the load platform (2). By fixing the load platform (2) on the working platform (1), the latter can also be raised and lowered by the same adjusting device (7).

Classifications:

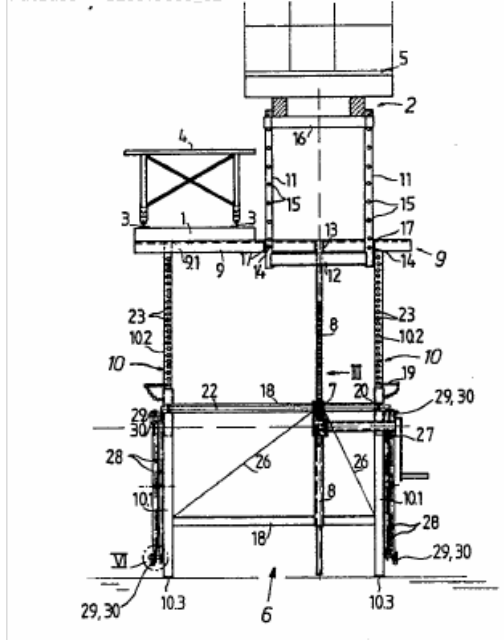
International (IPC 8-9): E04G1/22 E04G5/00 (Advanced/Invention);
E04G1/18 E04G5/00 (Core/Invention)

International (IPC 1-7): E04G1/20 E04G1/28

CPC: E04G1/22 E04G5/00

European: E04G1/22 E04G1/26 E04G5/00

PatBase - DE3509833_C1



Family:

Publication number	Publication date	Application number	Application date
DE3509833 C1	19861127	DE19853509833	19850319

Priority:

DE19853509833 19850319

Probable Assignee: MAFISCO BAUTECHNIK GMBH

Assignee(s): (std): MAFISCO BAUTECHNIK GMBH

Assignee(s): MAFISCO BAUTECHNIK GMBH 7959 ACHSTETTEN DE

Inventor(s): (std): MAIER GEORG

Inventor(s): MAIER GEORG 7959 SCHWENDI DE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE3509833 C1	19861127	LSGT	+	granted / extensions (spc, cpc, pte)	
DE3509833 C1	19861127	LSPB	+8100	PUBLICATION OF THE EXAMINED APPLICATION WITHOUT PUBLICATION OF UNEXAMINED APPLICATION	
DE3509833 C1	19861127	LSGT	+D1	GRANT (NO UNEXAMINED APPLICATION PUBLISHED) PATENT LAW 81	
DE3509833 C1	19870527	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE3509833 C1	19890316	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	

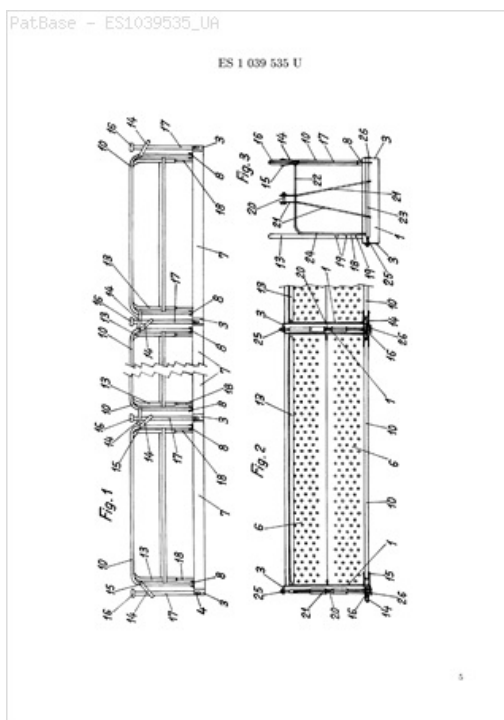
Title: ANDAMIO PERFECCIONADO.

Abstract: Source: ES1039535U [ES] 1. ANDAMIO PERFECCIONADO, ESENCIALMENTE CARACTERIZADO POR COMPRENDER UNOS TRAMOS, FORMADOS POR UN BASTIDOR RECTANGULAR CONSTITUIDO POR DOS TESTEROS-TRANSVERSALES DE CHAPA DE ACERO CON LOS EXTREMOS PLEGADOS A ESCUADRA HACIA AFUERA Y PROVISTOS DE UNA ORIFICACION PASANTE ALINEADA ENTRE LOS DOS LADOS OPUESTOS, CUYOS EXTREMOS A ESCUADRA DE UNO DE LOS TESTEROS, RESULTA ALGO MAS ANCHO QUE LOS EXTREMOS PLEGADOS DEL TESTERO DEL LADO TRANSVERSAL OPUESTO, PERMITIENDO EL ACOPLAMIENTO DE DOS TRATADOS DE ANDAMIO, SOLAPANDO LOS PLEGADOS A ESCUADRA DE UNO DE LOS TRAMOS, CON LOS DEL TRAMO CONTIGUO, UNIENDOSE LOS DOS TESTEROS TRANSVERSALES, POR MEDIO DE UNOS PERFILES TUBULARES QUE CONSTITUYEN LOS LATERALES LONGITUDINALES DEL TRAMO DE PLATAFORMA, COMPLETANDOSE DICHOS LATERALES LONGITUDINALES, CON UNAS CHAPAS SUPERPUESTAS DE ACERO, UNIDAS POR SOLDADURA, INCORPORANDO LA PLATAFORMA EN SU PLANO SUPERIOR, UNA PLANCHAS DE SUPERFICIE RUGOSA PARA APOYO DEL OPERARIO, CUYAS PLANCHAS DE APOYO, DESCANSAN SOBRE UNOS PERFILES TRANSVERSALES DISPUESTOS EQUIDISTANTEMENTE EN TODA LA LONGITUD DE LA PLATAFORMA DEL ANDAMIO, LLEVANDO LA PLATAFORMA JUNTO A LOS LATERALES LONGITUDINALES, UNOS ENGANCHES QUE SOPORTAN LAS BARANDILLAS POSTERIOR Y ANTERIOR DEL ANDAMIO. **Machine translation:** 1. Scaffold perfected, essentially characterized by comprising sections, formed by a rectangular frame formed by two transverse-FRONT ENDS OF SHEET STEEL WITH THE ENDS folded squarely OUTWARDLY AND PROVIDED WITH A through hole punching ALIGNED BETWEEN THE TWO SIDES, whose ends SQUARE OF ONE OF THE END walls, it is somewhat WIDER THAN THE FOLDED ENDS OF THE END WALL OF THE OPPOSITE TRANSVERSE side, allowing the coupling of two treaties scaffold, overlapping the FOLDED SQUARE OF ONE OF THE SECTIONS, with the adjacent section, JOINING THE TWO ENDS TRANSVERSE, BY MEANS OF TUBULAR PROFILES CONSTITUTING THE LONGITUDINAL SIDE OF THE SECTION OF SAID longitudinal side platform, completing, with superimposed PLATES OF STEEL, attached by welding, Incorporating the platform in its upper plane, A ROUGHENED SURFACE TO SUPPORT PLATES OF THE OPERATOR, whose support plates, RESTING ON TRANSVERSE PROFILES ARRANGED EQUIDISTANTLY ALONG THE LENGTH OF THE scaffold platform, BRINGING THE PLATFORM NEXT TO THE LONGITUDINAL SIDE, HOOKS SUPPORTING THE posterior and anterior rails of the scaffold.

Classifications:

International (IPC 8-9): E04G5/00 (Advanced/Invention); E04G5/00 (Core/Invention)

International (IPC 1-7): E04G3/10 E04G5/00



Family:

Publication number	Publication date	Application number	Application date
ES1039535 UA	19981216	ES19980000493U	19980220
ES1039535 Y1	19990501	ES19980000493U	19980220
ES1039535 YA	19990501	ES19980000493U	19980220

Priority:

ES19980000493U 19980220

Probable Assignee:

AZPEITIA URENA PABLO

Assignee(s): (std):

AZPEITIA URENA PABLO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES1039535 UA	19981216	LSPB	+	published / reissued	
ES1039535 Y1	19990501	LSGT	+	granted / extensions (spc, cpc, pte)	
ES1039535 Y1	20131017	LSLE	-FD1K	UTILITY MODEL LAPSED	EFFECTIVE DATE : 20131017
ES1039535 Y1	20080220	PEXP		Calculated Patent Term Expiry	

ES1039535 YA	19990501	LSGT	+	granted / extensions (spc, cpc, pte)
ES1039535 YA	20080220	PEXP		Calculated Patent Term Expiry

Title: METHOD AND MACHINE FOR FORMING A CONCRETE PATH OR THE LIKE, AS WELL AS DEVICE FOR INSERTING DOWELS APPLIED HEREWITH

Abstract: A method for forming a concrete path or the like, which concrete path is provided with dowels, whereby unhardened concrete, by means of at least one form piece moving over the concrete, is brought into the shape of the concrete path to be realized, wherein said dowels are brought into the concrete in front of and/or at the height of the form piece, more particularly before and/or at the moment that the concrete surrounding the dowels, by means of said form piece, is forced into the shape of the concrete path to be realized.

Classifications:

International (IPC 8-9): E01C19/00 E01C21/00 E01C23/02
E01C23/04 (Advanced/Invention)

International (IPC 1-7): E01C23/04 E04B1/00 E04G21/00 E04G23/00

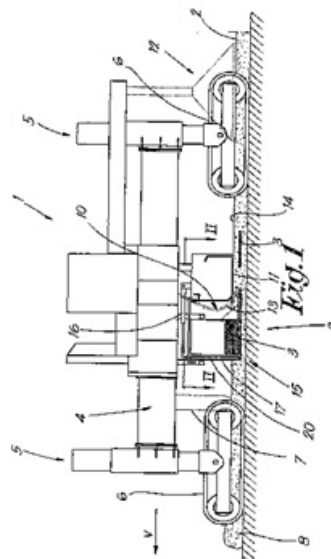
CPC: E01C23/04

European: E01C23/04

US: 404/100 404/100P 404/82 404/88 404/88P 52/745.05
52/745.050P

PatBase - US2003041556_AA

Patent Application Publication Mar. 6, 2003 Sheet 1 of 5 US 2003/0041556 A1



Family:

Publication number	Publication date	Application number	Application date
AT380270 E	20071215	AT20020078338T	20020812
BE1014342 AD	20030902	BE20010000543	20010813
DE60223878 D1	20080117	DE20026023878	20020812
DE60223878 D1	20080117	DE20026023878T	20020812
DE60223878 T2	20081113	DE20026023878T	20020812
EP1284323 A1	20030219	EP20020078338	20020812
EP1284323 B1	20071205	EP20020078338	20020812
ES2296873 T3	20080501	ES20020078338T	20020812
US2003041556 AA	20030306	US20020216848	20020813
US2006104717 AA	20060518	US20050078315	20050421
US2007160422 AA	20070712	US20070723448	20070320
US2007196172 AA	20070823	US20070723451	20070320
US7037035 BB	20060502	US20020216848	20020813
US7214001 BB	20070508	US20050078315	20050421
US7303355 BB	20071204	US20070723448	20070320

Priority:

BE20010000543 20010813 BE20010000543 20010831 US20020216848 20020813
US20050078315 20050421 US20070723451 20070320 US20070723448 20070320

Probable Assignee: DRION CONSTRUCTIE BESLOTEN VENNOOTSCHAP

Assignee(s): (std): CASTERS FRANCOIS J ; DRION CONSTRUCTIE ; DRION CONSTRUCTIE BVBA ; DRION CONSTRUCTIE BV MET BEPER ; DRION CONSTRUCTIE MET BEPER BV ; DRION CONSTRUCTIE BV

Assignee(s): DRION CONSTRUCTIE BESLOTEN VENNOOTSCHAP MET BEPERKTE AANSPRAKELIJKHEID ; DRION CONSTRUCTIE BESLOTEN VENNOOTSCHAP MET BEPERKTE AANSPRAKELIJKHEID ; DRION CONSTRUCTIE BESLOTEN VENNOOTSCHAP MET ; DRION CONSTRUCTIE BESLOTEN VENNOOTSCHAP MET BEPERK ; DRION CONSTRUCTIE BESLOTEN VENNOOTSCHAP ; DRION CONSTRUCTIE BESLOTEN ; CASTERS FRANCOIS JOSEPH

Inventor(s): (std): CASTERS FRANCOIS JOSEPH ; CASTERS FRANCOIS J

Inventor(s): CASTERS FRANCOIS

Agent(s): BACON AND THOMAS PLLC

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

Legal status (INPADOC)

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Patent

Date recorded Event group Code Event

Details

AT380270 E	20071215	LSGT	+	granted / extensions (spc, cpc, pte)	
AT380270 E	20080715	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	REF DOCUMENT NUMBER : 1284323 COUNTRY OF REF DOCUMENT : EP
AT380270 E	20220812	PEXP		Calculated Patent Term Expiry	
BE1014342 AD	20030902	LSPB	+	published / reissued	
BE1014342 AD	20090630	LSAS	CN	CHANGE OF PATENT OWNER'S NAME	PARTYTYPE : OWNER OWNER : *TEREX ROADBUILDING EUROPE EFFECTIVE DATE : 20090617
BE1014342 AD	20190510	LSLE	-MM	LAPSED BECAUSE OF NON-PAYMENT OF THE ANNUAL FEE	EFFECTIVE DATE : 20180831
DE60223878 D1	20081224	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60223878 D1	20081224	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60223878 T2	20081113	LSGT	+	granted / extensions (spc, cpc, pte)	
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DE60223878 T2	20220812	PEXP		Calculated Patent Term Expiry	
EP1284323 A1	20030219	LSPB	+	published / reissued	
EP1284323 A1	20031015	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030813
EP1284323 A1	20031105	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF DOCUMENT : SK COUNTRY OF REF DOCUMENT : TR
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EP1284323 A1	20070711	LSRE	RTI1	TITLE (CORRECTION)	TEXT : MACHINE FOR FORMING A CONCRETE PATH OR THE LIKE, AS WELL AS DEVICE FOR INSERTING DOWELS APPLIED HEREWITH

EP1284323 A1	20151030	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20150810 YEAR OF FEE PAYMENT : 14
EP1284323 A1	20161031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160810 YEAR OF FEE PAYMENT : 15
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EP1284323 B1	20071221	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1284323 B1	20071231	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1284323 B1	20080430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20071205
EP1284323 B1	20080430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20071205
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EP1284323 B1	20080501	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2296873 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
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EP1284323 B1	20081112	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20080908
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EP1284323 B1	20090331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20080831
EP1284323 B1	20090430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080305
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EP1284323 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20071205
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EP1284323 B1	20160816	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 : 15
EP1284323 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20160809 YEAR OF FEE PAYMENT : 15
EP1284323 B1	20170829	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 16
EP1284323 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170829 YEAR OF FEE PAYMENT : 16
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					MM01 REF DOCUMENT NUMBER : 380270 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20180812
EP1284323 B1	20190424	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20180812
EP1284323 B1	20190430	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 NON- PAYMENT OF DUE FEES LAPSED DATE : 20180812
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EP1284323 B1	20191031	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 : 20180812
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EP1284323 B1	20220812	PEXP		Calculated Patent Term Expiry	
ES2296873 T3	20080501	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2296873 T3	20220812	PEXP		Calculated Patent Term Expiry	
US2003041556 AA	20030306	LSPB	+	published / reissued	
US2006104717 AA	20060518	LSPB	+	published / reissued	
US2006104717 AA	20070418	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2007160422 AA	20070712	LSPB	+	published / reissued	
US2007160422 AA	20071114	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2007196172 AA	20070823	LSPB	+	published / reissued	
US2007196172 AA	20070320	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DRION CONSTRUCTIE, BESLOTEN VENNOOTSCHAP, BELGIUM OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CASTERS, FRANCOIS JOSEPH; REEL/FRAME:019110/0004 EFFECTIVE DATE : 20050504
US2007196172 AA	20080414	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US7037035 BB	20060502	LSGT	+	granted / extensions (spc, cpc, pte)	
US7037035 BB	20020813	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DRION CONSTRUCTIE, BESLOTEN

					VENNOOTSCHAP MET BEPER OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CASTERS, FRANCOIS JOSEPH; REEL/FRAME:013195/0052 EFFECTIVE DATE : 20011213
US7037035 BB	20060412	LSGT	PAT1	Patented Case	
US7037035 BB	20091223	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7037035 BB	20131101	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7037035 BB	20171211	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7037035 BB	20180528	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7037035 BB	20180528	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7037035 BB	20180528	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7037035 BB	20180619	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20180502
US7037035 BB	20230405	PEXP		Calculated Patent Term Expiry (PTA 235 days)	
US7214001 BB	20070508	LSGT	+	granted / extensions (spc, cpc, pte)	
US7214001 BB	20050421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DRION CONSTRUCTIE, BESLOTEN, BELGIUM OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CASTERS, FRANCOIS JOSEPH; REEL/FRAME:016121/0910 EFFECTIVE DATE : 20050405
US7214001 BB	20070418	LSGT	PAT1	Patented Case	
US7214001 BB	20071023	LSRE	CC	CERTIFICATE OF CORRECTION	
US7214001 BB	20101006	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7214001 BB	20150508	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7214001 BB	20181224	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7214001 BB	20190610	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7214001 BB	20190610	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7214001 BB	20190610	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7214001 BB	20190702	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190508
US7214001 BB	20250729	PEXP		Calculated Patent Term Expiry (PTA 99 days)	
US7303355 BB	20071204	LSGT	+	granted / extensions	

(spc, cpc, pte)					
US7303355 BB	20070320	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DRION CONSTRUCTIE, BESLOTEN VENNOOTSCHAP, BELGIUM OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CASTERS, FRANCOIS JOSEPH; REEL/FRAME:019110/0098 EFFECTIVE DATE : 20050504
US7303355 BB	20071114	LSGT	PAT1	Patented Case	
US7303355 BB	20110606	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7303355 BB	20151130	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7303355 BB	20190722	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7303355 BB	20270320	PEXP		Calculated Patent Term Expiry	

Title: ROOF MOUNTED SUSPENDED SCAFFOLD - CONSISTS OF TWO U=FRAMES CARRYING PLANKS, HUNG FROM HOOKED HORIZONTAL MEMBERS IMMEDIATELY UNDER ROOF

Abstract: The scaffold frame (1) is designed to be supported underneath the roof (3) of a building under construction or repair. The frame has a U-shaped tubular frame (5) each end, across which wooden planks may be laid. These in turn are supported by horizontal members (13) at the top, immediately under the roof. The outer vertical leg (7) of the U is fitted with an inner tube (18) which slides **telescopically** to a required height. It is then locked by a clamp. The horizontal member has two members which slide to give a required length. The outer one carries a hook for retaining a cross bar mounted across the tops of the inner legs of the U-frames.

Classifications:

International (IPC 8-9): E04G21/32 E04G5/04

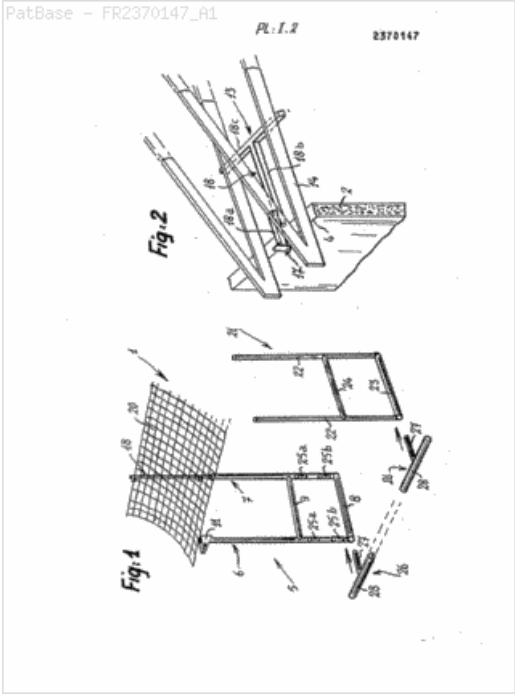
E04G5/06 (Advanced/Invention);

E04G21/32 E04G5/00 (Core/Invention)

International (IPC 1-7): E04G3/02

CPC: E04G5/041 E04G21/3266 E04G21/3219 E04G5/04 E04G5/06

European: E04G21/32B4 E04G5/04 E04G5/06



Family:

Publication number	Publication date	Application number	Application date
FR2370147 A1	19780602	FR19760033398	19761105

Priority:

FR19760033398 19761105

Probable Assignee:

VERCELLETTO MICHEL

Assignee(s): (std):

VERCELLETTO MICHEL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2370147 A1	19780602	LSPB	+	published / reissued	
FR2370147 A1	19801017	LSLE	-ST	NOTIFICATION OF LAPSE	

Title: MONTAGEHILFSVORRICHTUNG FUER ZARGEN Mounting auxiliary device for shrouds (Machine translation)

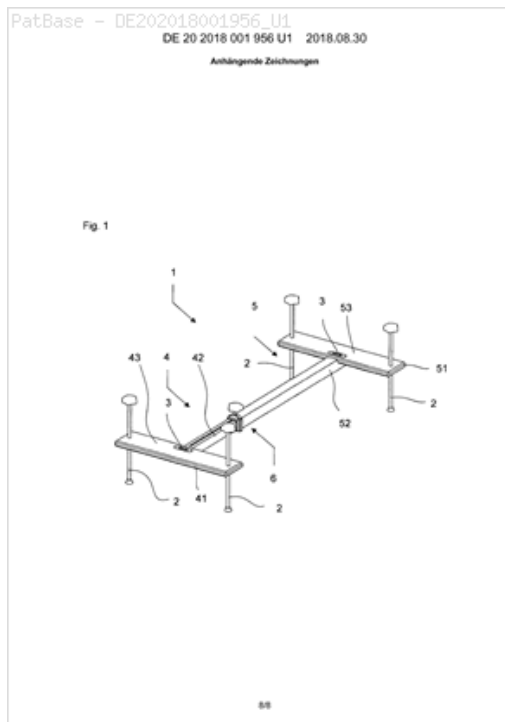
Abstract: Source: DE202018001956U1 [DE] Montagehilfsvorrichtung fuer Zargen,aufweisend eine Grundeinheit (1), vier Verstellfuesse (2) und eine Ausrichtungsanzeigeeinheit (3),wobei die Grundeinheit (1) ein erstes Tragelement (4) aufweist, welches einen ersten Traeger (41) und eine erste Querstrebe (42) quer zu dem ersten Traeger (41) aufweist, wobei der erste Traeger (41) eine erste Aufstandsflaeche (43) auf dessen Oberseite aufweist,wobei die Grundeinheit (1) ein zweites Tragelement (5) aufweist, welches einen zweiten Traeger (51) und eine zweite Querstrebe (52) quer zu dem zweiten Traeger (51) aufweist, wobei der zweite Traeger (51) eine zweite Aufstandsflaeche (53) auf dessen Oberseite aufweist,und wobei die Querstreben in einer gemeinsamen Laengsachse laengsverschieblich in einem Teleskopelement (6) miteinander verbunden sind, wobei zwei der vier Verstellfuesse (2) an sich gegenueberliegenden Endabschnitten des ersten Traegers (41) und zwei weitere der vier Verstellfuesse (2) an sich gegenueberliegenden Endabschnitten des zweiten Traegers (51) angeordnet sind,wobei die vier Verstellfuesse (2) hoeohenverstellbar ausgebildet sind und wobei mittels der Ausrichtungsanzeigeeinheit (3) ein waagerechte Ausrichtung der Grundeinheit anzeigbar ist. **Machine translation:** Auxiliary device for Mounting Frames,comprising a base unit (1), four adjusting feet (2) and an alignment-display unit (3), wherein the base unit (1) comprises a first support element (4) which comprises a first carrier (41) and a first transverse strut (42) transversely to the first carrier (41), wherein the first carrier (41) has a first footprint (43) on the top surface,wherein the base unit (1) has a second support element (5) which comprises a second carrier (51) and a second cross member (52) is transverse to the second carrier (51), wherein the second carrier (51) has a second footprint (53) on the upper side, and wherein the transverse struts in a common longitudinal axis along so as to be displaceable in a telescoping member (6) are connected to one another, wherein two of the four adjusting feet (2) at opposite end portions of the first carrier (41) and two Further the four adjusting feet (2) at opposite end portions of the second carrier (51) are arranged, wherein the four adjusting feet (2) adjustable in height, and wherein by means of the orientation display unit (3) has a horizontal orientation of the base unit is displayed.

Classifications:

International (IPC 8-9): E04F21/00 E04G21/18

E06B1/56 (Advanced/Invention)

CPC: E06B1/56 E04F21/0015



Family:

Publication number	Publication date	Application number	Application date
DE202018001956 U1	20180830	DE201820001956U	20180417

Priority:

DE201820001956U 20180417

Probable Assignee:

SBID GMBH AND CO KG

Assignee(s): (std):

SBID GMBH AND CO KG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE202018001956 U1	20180830	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202018001956 U1	20180830	LSGT	R207	UTILITY MODEL SPECIFICATION	
DE202018001956 U1	20280417	PEXP		Calculated Patent Term Expiry	

Title: Mobile cargo loader for lifting and transporting building modules and the like

Abstract: A generally U-shaped frame is formed with a pair of elongated beams, each having a pair of pivotally mounted load-engaging dogs, and with a pair of elongated sleeves, each extending upwardly from the free end of one of the beams. An elongated **post** is slidably and **telescopically** mounted in each of the sleeve. Each **post** is mounted on a wheel-supporting carriage. A hydraulic jack is mounted in each of the telescoping **post** and sleeve assemblies to raise and lower the frame relative to the base assemblies. Hydraulic motors and lines are provided so that the dogs can be pivoted and the frame raised and lowered by the operator of a fork lift which is attached to a hitch extending from the closed end of the frame.

Classifications:

International (IPC 8-9): B60P1/02 E04G21/16 (Advanced/Invention);
B60P1/02 E04G21/16 (Core/Invention)

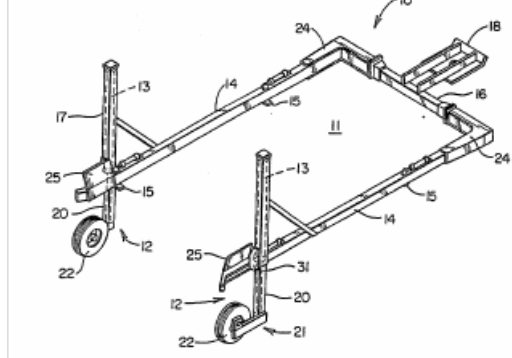
International (IPC 1-7): B60P1/00

CPC: B60P1/027 B62B2206/02 E04G21/161

European: B60P1/02D E04G21/16B L62B206/02

US: 254/2R 280/43.23 414/10 414/458 414/474 414/483 414/495

PatBase - US4699558_A



Family:

Publication number	Publication date	Application number	Application date
US4699558 A	19871013	US19860822533	19860127

Priority:

US19860822533 19860127

Probable Assignee: CARDINAL IND INC

Assignee(s): (std): CARDINAL IND INC

Assignee(s): CARDINAL INDUSTRIES INC ; HUNTINGTON NATIONAL BANK ; CARDINAL IND

Inventor(s): (std): HAGGE DOUGLAS R ; JOHNSTON CLIFFORD V

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4699558 A	19871013	LSGT	+	granted / extensions (spc, cpc, pte)	
US4699558 A	19860127	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARDINAL INDUSTRIES, INC., 2040 SOUTH HAMILTON ROAD OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:HAGGE, DOUGLAS R.; JOHNSTON, CLIFFORD V.; REEL/FRAME:004509/0906 EFFECTIVE DATE : 19851231
US4699558 A	19870812	LSGT	PAT1	Patented Case	
US4699558 A	19910325	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4699558 A	19921123	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HUNTINGTON NATIONAL BANK, THE, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR: CARDINAL INDUSTRIES, INC.; REEL/FRAME:006451/0835 EFFECTIVE DATE : 19920911
US4699558 A	19951015	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4699558 A	19951226	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19951018
US4699558 A	20180130	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4699558 A	20180130	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

Title: LADDER STAND WITH OPTIONAL EXTENSION MEMBER, KIT FOR CONSTRUCTING HEIGHT-ADJUSTABLE LADDER STAND, AND METHOD OF USING SAME

Abstract: A portable ladder stand for supporting a hunter or naturalist above the ground includes a ladder portion, an upper assembly portion and a seat portion. The ladder portion includes a plurality of components including an intermediate ladder segment, ladder extension segment and lower ladder segment. The ladder segments are include vertical rails and horizontal rungs extending between the rails, and the segments are nestingly connected together. The vertical rails include male peg connectors and female socket connectors that are configured in such a way as to limit the number of ladder extension segments that can be included in the ladder portion of the ladder stand.

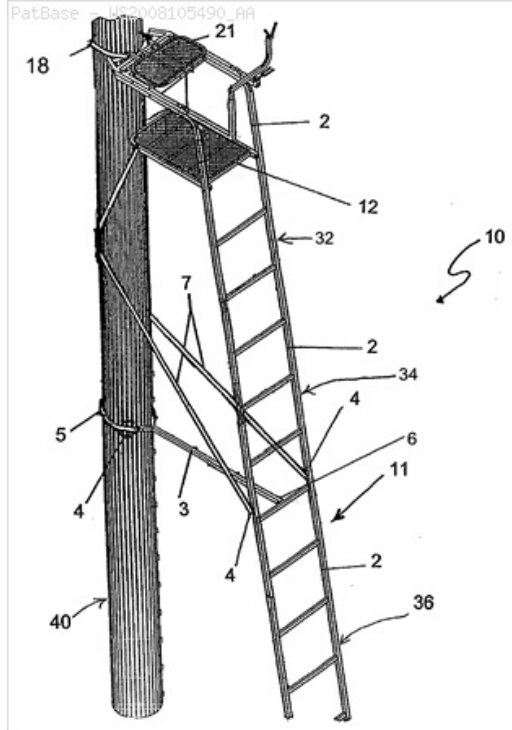
Classifications:

International (IPC 8-9): E04G7/26 E06C7/16 (Advanced/Invention); E04G7/00 E06C7/00 (Core/Invention)

CPC: A01M31/02 E06C1/10 E06C1/34 E06C7/16

European: A01M31/02 E06C1/10 E06C1/34 E06C7/16

US: 182/116 182/178.3 182/178.4 182/178.5



Family:

Publication number	Publication date	Application number	Application date
US2008105490 AA	20080508	US20070936477	20071107
US7717232 BB	20100518	US20070936477	20071107

Priority:

US20060857430P 20061107 US20070936477 20071107

Probable Assignee: GORILLA INC

Assignee(s): (std): GORILLA INC

Assignee(s): NATIONAL CITY BANK AGENT AS ; NATIONAL CITY BANK AS AGENT ; COMERICA BANK A TEXAS BANKING ASSOCIATION ; EASTMAN OUTDOORS INC

Inventor(s): (std): BUTCHER ROBERT

Agent(s): CARRIER BLACKMAN AND ASSOCIATES; CARRIER BLACKMAN AND ASSOCIATES PC; WILLIAM D; JOSEPH P

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2008105490 AA	20080508	LSPB	+	published / reissued	
US2008105490 AA	20091103	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL CITY BANK, AS AGENT, OHIO OLDPARTY : SECURITY AGREEMENT; ASSIGNORS: EASTMAN OUTDOORS, INC.; GORILLA, INC.; REEL/FRAME: 023456/0453 EFFECTIVE DATE : 20091026
US2008105490 AA	20091103	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL CITY BANK, AS AGENT, OHIO OLDPARTY : SECURITY AGREEMENT; ASSIGNORS: EASTMAN OUTDOORS, INC.; GORILLA, INC.; REEL/FRAME: 023456/0453 EFFECTIVE DATE : 20091026

US7717232 BB	20100518	LSGT	+	granted / extensions (spc, cpc, pte)	
US7717232 BB	20071217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GORILLA, INC., MICHIGAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: BUTCHER, ROBERT; REEL/FRAME: 020289/0631 EFFECTIVE DATE : 20071207
US7717232 BB	20071217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GORILLA, INC., MICHIGAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: BUTCHER, ROBERT; REEL/FRAME: 020289/0631 EFFECTIVE DATE : 20071207
US7717232 BB	20120625	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : COMERICA BANK, A TEXAS BANKING ASSOCIATION, MICHIG OLDPARTY : SECURITY AGREEMENT; ASSIGNOR: GORILLA, INC.; REEL/FRAME: 028436/0072 EFFECTIVE DATE : 20120622
US7717232 BB	20120821	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EASTMAN OUTDOORS, INC., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR: PNC BANK, NATIONAL ASSOCIATION; REEL/FRAME: 028820/0382 EFFECTIVE DATE : 20120622
US7717232 BB	20120821	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GORILLA, INC., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR: PNC BANK, NATIONAL ASSOCIATION; REEL/FRAME: 028820/0382 EFFECTIVE DATE : 20120622
US7717232 BB	20140518	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7717232 BB	20140616	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7717232 BB	20140616	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7717232 BB	20140708	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20140518
US7717232 BB	20271211	PEXP		Calculated Patent Term Expiry (PTA 34 days)	

Title: CAST OR MOULDED STRUCTURES AND THE MAKING THEREOF

Abstract: 1348131 Moulding plastic materials DOBSON PARK INDUSTRIES Ltd 28 April 1971 [28 May 1970] 25697/70 Heading B5A [Also in Division E1] A building structure, e.g. a column, wall c., is moulded by pumping a fluid solidifiable material, e.g. concrete, a thermoplastic or thermosetting resin, into an extensible mould consisting of at least two rigid hollow sections 10, 11 telescoped together, thereby to extend the mould to the required height, and allowing the material to solidify. The mould may be of metal or of concrete c. similar to the filling material, and includes an inlet valve 15, a distributing plate 16 and a vent 17 with a filter for escape of air and moisture during filling. **Reinforcement** for the structure may be placed inside the mould before filling and may comprise a telescopic arrangement of metal rods or mesh 18, 19.

Classifications:

International (IPC 8-9): E01D19/02 E04B1/16 E04B1/32 E04G13/02 E04G25/00 E04H12/12 E21D11/00 E21D15/48 F16L9/22 (Advanced/Invention);

E01D19/02 E04B1/16 E04B1/32 E04G13/00 E04G25/00 E04H12/00 E21D11/00 E21D15/00 F16L9/00 (Core/Invention)

International (IPC 1-7): B29C1/00 E01D19/02 E01G5/16 E04B2/86 E04C1/00 E04G11/06 E04G13/02 E04G25/00 E04G9/00 E21D11/10

CPC: E01D19/02 E04B1/169 E04B1/3205 E04B2001/3217

E04B2001/3264 E04B2001/3276 E04G13/02 E04G25/00 E04H12/12 E21D11/00 E21D15/483 F16L9/22

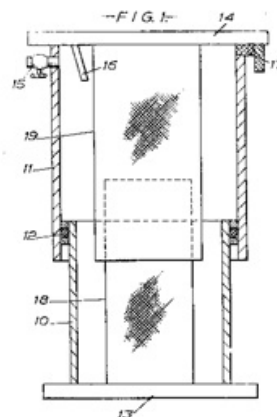
European: E01D19/02 E04B1/16F1A E04B1/32B E04G13/02 E04G25/00 E04H12/12 E21D11/00 E21D15/48F F16L9/22 P04B1/32H P04B1/32N1 P04B1/32P1

PatBase - FR2091727_R5

71 17919

Fig. 1-10

2091727



Family:

Publication number	Publication date	Application number	Application date
DE2044117 A1	19711209	DE19702044117	19700905
DE2125173 A1	19711209	DE19712125173	19710521
DE2125173 B2	19730628	DE19712125173	19710521
DE2125173 C3	19740124	DE19712125173	19710521
FR2091727 A5	19720114	FR19710017919	19710518
GB1348131 A	19740313	GB19700025697	19700528

Priority:

GB19700025697 19700528

Probable Assignee: DOBSON PARK IND

Assignee(s): (std): DOBSON PARK IND

Assignee(s): DOBSON PARK IND LTD ; DOBSON PARK INDUSTRIES LTD ; DOBSON PARK INDUSTRIES LTD NOTTINGHAM NOTTINGHAMSHIRE GROSSBRITANNIEN

Inventor(s): (std): BELL JACK WALLWORK

Inventor(s): BELL JACK WALLWORK BOLTON LANCASHIRE ; BELL JACK WALLWORK BOLTON LANCASHIRE GROSSBRITANN ; BELL JACK WALLWORK BOLTON LANCASHIRE GROSSBRITANNIEN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE2044117 A1	19711209	LSPB	+	published / reissued	
DE2125173 A1	19711209	LSPB	+	published / reissued	
DE2125173 B2	19730628	LSPB	+	published / reissued	
DE2125173 C3	19740124	LSGT	+	granted / extensions (spc, cpc, pte)	
DE2125173 C3	19740124	LSGT	+C3	GRANT AFTER TWO PUBLICATION STEPS (3RD PUBLICATION)	
FR2091727 A5	19720114	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2091727 A5	19760716	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2091727 A5	19910518	PEXP		Calculated Patent Term Expiry	
GB1348131 A	19740313	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1348131 A	19740628	LSRE	48R	REFERENCE INSERTED (SECT. 8/1949)	

GB1348131 A	19740724	LSGT	+PS	PATENT SEALED
GB1348131 A	19751203	LSLE	-PLNP	PATENT LAPSED THROUGH NONPAYMENT OF RENEWAL FEES
GB1348131 A	19900528	PEXP		Calculated Patent Term Expiry

Title: Adjustable vehicle-carrying frame

Abstract: An adjustable frame for carrying vehicles between elongate upright sides includes, on each side, a forward end and a rearward end, each end including an upper and lower rail section joined by elongate brace members, where the respective ends are separated from one another and a length-adjusting insert is carried between such ends to selectively permit adjustment of the position of the forward end relative to the rearward end while maintaining the ends in end-to-end alignment. On each side of the frame, preferably at least one of the upper rail sections has an end portion defining an open-ended hollow tube extending lengthwise of that side within which an elongate arm of the length-adjusting insert is slidably moveable so that structures on the outside surfaces of the rail sections will not interfere with length adjustment. Preferably, on each side, the upper and lower rail sections of the respective ends together define longitudinally aligned upper and lower pairs of open-ended tubes in which are slidably received an upper and lower pair of arms of the length-adjusting insert, thereby permitting the insert to remain permanently in position on each side regardless of the length selected. Preferably, also, the forward and rearward ends of the frame are lockable to the arms of the insert while keeping the insert centered longitudinally with respect to each side.

Classifications:

International (IPC 8-9): A47F5/00 B60P3/07 B60P3/077 B60P3/08 B61D3/18 B61D3/20 B65D6/18 B65D85/68 B65D88/00 B65D88/02 B65D88/12 B65D90/00 B65G1/14 B65G6/02

E04G21/16 (Advanced/Invention);

A47F5/00 B65D6/18 B65D85/68 B65G1/14

E04G21/16 (Advanced/Non-invention);

B60P3/06 B61D3/00 B65D6/18 B65D85/68 B65D88/00

B65G6/02 (Core/Invention);

B65D85/68 (Core/Non-invention)

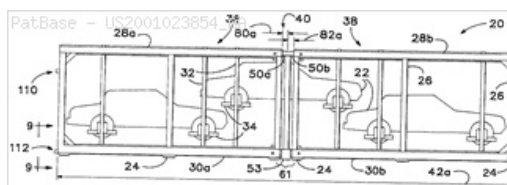
International (IPC 1-7): A47F5/00 A47F7/00 B60P1/64 B60P3/07 B60P3/077 B60P3/08 B61D3/18 B62D21/00 B65D6/18 B65D85/68 B65D88/12 B65D88/52 B65G1/14 B65G6/02 E04G21/16

CPC: B65D90/18 B60P3/07 B60P3/08 B61D3/18 B61D3/20 B65D88/005 B65D88/022 B65D88/121 B65D88/123

B65D2585/6867 B65G2201/0294

European: B60P3/07 B60P3/08 B61D3/18 B61D3/20 B65D88/00A B65D88/02B B65D88/12A B65D88/12B1 B65D90/18 L65D585/68Y5C L65G201/02V

US: 211/13 211/175 211/190 211/191 211/195 211/85.8 211/85.800P 410/16 410/16S 410/18 410/18S 410/9 410/9S 414/143.2 414/286 414/341 414/345 414/352 414/399 414/400 414/400S 414/498 414/572 414/572S 414/756 414/756S 414/786 414/800 414/809 414/812



Family:

Publication number	Publication date	Application number	Application date
AT65232 E	19910815	AT19870311116T	19871217
AU198782549 A1	19880623	AU19870082549	19871215
AU198937098 A1	19891116	AU19890037098	19890627
AU199335381 A1	19931021	AU19930035381	19930322
AU199479728 A1	19950522	AU19940079728	19941006
AU594277 B2	19900301	AU19870082549	19871215
AU626882 B2	19920813	AU19890037098	19890627
AU661896 B2	19950810	AU19930035381	19930322
AU675182 B2	19970123	AU19940079728	19941006
CA1285238 A1	19910625	CA19870554408	19871215
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Priority:

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Probable Assignee: G AND G INTELLECTUAL PROPERTIES INC

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT65232 E	19910815	LSGT	+	granted / extensions (spc, cpc, pte)	
AT65232 E	19920415	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
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AT65232 E	20071217	PEXP		Calculated Patent Term Expiry	
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AU199479728 A1	19950522	LSPB	+	published / reissued	
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KR950000582 B1	19920325	LSES	A201	REQUEST FOR EXAMINATION
KR950000582 B1	19941227	LSPB	G160	DECISION TO PUBLISH PATENT APPLICATION
KR950000582 B1	19950417	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT
KR950000582 B1	19950520	LSGT	+GRNT	WRITTEN DECISION TO GRANT
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US4768916 A	19870619	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTAINER, INC., A OREGON CORP.,OREGON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRA:004727/0914 EFFECTIVE DATE : 19870608
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US4768916 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., A OREGON CORP OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRA:004838/0905 EFFECTIVE DATE : 19871224
US4768916 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., A OREGON CORP OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRA:004838/0907 EFFECTIVE DATE : 19871224
US4768916 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G& G INTELLECTUAL PROPERTIES, INC.,,STATELESS OLDPARTY : CHANGE OF NAME; ASSIGNOR:CONTAINER, INC., CHANGED TO; REEL/FRA:004838/0902 EFFECTIVE DATE : 19871111
US4768916 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., A OREGON CORP OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRA:004838/0905 EFFECTIVE DATE : 19871224
US4768916 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., A OREGON CORP OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRA:004838/0907 EFFECTIVE DATE : 19871224

US4768916 A	19880620	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G&G INTELLECTUAL PROPERTIES, INC., OLDPARTY : CHANGE OF NAME; ASSIGNOR:CARTAINER, INC.; REEL/FRAME:004893/0805 EFFECTIVE DATE : 19871111
US4768916 A	19880705	LSGT	PAT1	Patented Case	
US4768916 A	19880705	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US4768916 A	19910911	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4768916 A	19950911	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4768916 A	19990907	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US4768916 A	20070420	PEXP		Calculated Patent Term Expiry	
US4797049 A	19890110	LSGT	+	granted / extensions (spc, cpc, pte)	
US4797049 A	19861218	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTAINER, INC., A OREGON CORP. OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRAME:004650/0892 EFFECTIVE DATE : 19861212
US4797049 A	19861218	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTAINER, INC. OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRAME:004650/0892 EFFECTIVE DATE : 19861212
US4797049 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G&G INTELLECTUAL PROPERTIES, INC., OLDPARTY : CHANGE OF NAME; ASSIGNOR:CONTAINER, INC., CHANGED TO; REEL/FRAME:004838/0902 EFFECTIVE DATE : 19871111
US4797049 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., A OREGON CORP OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRAME:004838/0905 EFFECTIVE DATE : 19871224
US4797049 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., A OREGON CORP OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRAME:004838/0907 EFFECTIVE DATE : 19871224
US4797049 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G&G INTELLECTUAL PROPERTIES, INC.,,STATELESS OLDPARTY : CHANGE OF NAME; ASSIGNOR:CONTAINER, INC., CHANGED TO; REEL/FRAME:004838/0902 EFFECTIVE DATE : 19871111
US4797049 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., A OREGON CORP OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRAME:004838/0905 EFFECTIVE DATE : 19871224

US4797049 A	19880119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., A OREGON CORP OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRAME:004838/0907 EFFECTIVE DATE : 19871224
US4797049 A	19881104	LSGT	PAT1	Patented Case	
US4797049 A	19881104	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US4797049 A	19900508	LSRE	CC	CERTIFICATE OF CORRECTION	
US4797049 A	19920113	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4797049 A	19960116	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4797049 A	20000111	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US4963067 A	19901016	LSGT	+	granted / extensions (spc, cpc, pte)	
US4963067 A	19881024	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., 3900 N.W. YEO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRAME:004974/0744 EFFECTIVE DATE : 19881007
US4963067 A	19881024	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., AN OREGON COR OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GEARIN, PETER; LEECH, EVERETT A.; REEL/FRAME:004974/0744 EFFECTIVE DATE : 19881007
US4963067 A	19900815	LSGT	PAT1	Patented Case	
US4963067 A	19900815	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US4963067 A	19920721	LSRE	CC	CERTIFICATE OF CORRECTION	
US4963067 A	19931029	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4963067 A	19971022	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4963067 A	20011018	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US4963067 A	20081024	PEXP		Calculated Patent Term Expiry	
US5040935 A	19910820	LSGT	+	granted / extensions (spc, cpc, pte)	
US5040935 A	19910619	LSGT	PAT1	Patented Case	
US5040935 A	19910619	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5040935 A	19930216	LSRE	CC	CERTIFICATE OF CORRECTION	
US5040935 A	19940825	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5040935 A	19980826	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5040935 A	20020820	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5040935 A	20100831	PEXP		Calculated Patent Term Expiry	
US5040938 A	19910820	LSGT	+	granted / extensions (spc,	

				cpc, pte)	
US5040938 A	19910619	LSGT	PAT1	Patented Case	
US5040938 A	19910619	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5040938 A	19930119	LSRE	CC	CERTIFICATE OF CORRECTION	
US5040938 A	19940825	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5040938 A	19980826	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5040938 A	20020820	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5040938 A	20100328	PEXP		Calculated Patent Term Expiry	
US5105951 A	19920421	LSGT	+	granted / extensions (spc, cpc, pte)	
US5105951 A	19920409	LSGT	PAT1	Patented Case	
US5105951 A	19920409	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5105951 A	19950424	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5105951 A	19990426	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5105951 A	20030421	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5105951 A	20110625	PEXP		Calculated Patent Term Expiry	
US5417332 A	19950523	LSGT	+	granted / extensions (spc, cpc, pte)	
US5417332 A	19920420	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., OREGON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:GEARIN, PETER; REEL/FRAME:006108/0962 EFFECTIVE DATE : 19920417
US5417332 A	19950822	LSRE	CC	CERTIFICATE OF CORRECTION	
US5417332 A	19980601	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5417332 A	20020523	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5417332 A	20070523	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5417332 A	20070620	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5417332 A	20070620	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5417332 A	20070710	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20070523
US5417332 A	20120523	PEXP		Calculated Patent Term Expiry	
US5445278 A	19950829	LSGT	+	granted / extensions (spc, cpc, pte)	
US5445278 A	19931222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : G & G INTELLECTUAL PROPERTIES, INC., OREGON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GEARIN, PETER; HALPIN, TERENCE; PILEGGI, JAMES D.; AND OTHERS; REEL/FRAME:006835/0909; SIGNING DATES FROM 19931217 TO 19931222
US5445278 A	19961224	LSRE	CC	CERTIFICATE OF	

US5445278 A	19980903	LSFE	+FPAY	CORRECTION FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5445278 A	20020829	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5445278 A	20070829	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5445278 A	20070924	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5445278 A	20070924	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5445278 A	20071016	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20070829
US5445278 A	20131222	PEXP		Calculated Patent Term Expiry	
US5470490 A	19951128	LSGT	+	granted / extensions (spc, cpc, pte)	
US5470490 A	19960806	LSRE	CC	CERTIFICATE OF CORRECTION	
US5470490 A	19981207	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5470490 A	20021202	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5470490 A	20071128	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5470490 A	20071224	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5470490 A	20071224	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5470490 A	20080115	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20071128
US5470490 A	20150503	PEXP		Calculated Patent Term Expiry	
US5482167 A	19960109	LSGT	+	granted / extensions (spc, cpc, pte)	
US5482167 A	19960611	LSRE	CC	CERTIFICATE OF CORRECTION	
US5482167 A	19990115	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5482167 A	20030109	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5482167 A	20080109	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5482167 A	20080204	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5482167 A	20080204	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5482167 A	20080226	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20080109
US5482167 A	20141201	PEXP		Calculated Patent Term Expiry	
US5553716 A	19960910	LSGT	+	granted / extensions (spc, cpc, pte)	
US5553716 A	19960830	LSGT	PAT1	Patented Case	
US5553716 A	19990914	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

US5553716 A	20040910	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5553716 A	20041109	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20040910
US5553716 A	20180124	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5553716 A	20180124	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5553716 A	20150828	PEXP		Calculated Patent Term Expiry	
US5630515 A	19970520	LSGT	+	granted / extensions (spc, cpc, pte)	
US5630515 A	20000522	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5630515 A	20050520	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5630515 A	20050622	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5630515 A	20050622	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5630515 A	20050719	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20050520
US5630515 A	20160726	PEXP		Calculated Patent Term Expiry	
US5765701 A	19980616	LSGT	+	granted / extensions (spc, cpc, pte)	
US5765701 A	20010620	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5765701 A	20060616	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5765701 A	20060719	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5765701 A	20060719	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5765701 A	20060815	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20060616
US5765701 A	20170411	PEXP		Calculated Patent Term Expiry	
US5909816 A	19990608	LSGT	+	granted / extensions (spc, cpc, pte)	
US5909816 A	20020610	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5909816 A	20070608	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5909816 A	20070711	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5909816 A	20070711	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5909816 A	20070731	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20070608
US5909816 A	20180313	PEXP		Calculated Patent Term Expiry (a	

				terminal disclaimer has been filed)	
US6119877 A	20000919	LSGT	+	granted / extensions (spc, cpc, pte)	
US6119877 A	20120919	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6119877 A	20121015	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6119877 A	20121015	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6119877 A	20121106	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20120919
US6119877 A	20190311	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6260718 BA	20010717	LSGT	+	granted / extensions (spc, cpc, pte)	
US6260718 BA	20050718	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6260718 BA	20050817	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6260718 BA	20050817	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6260718 BA	20050913	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20050717
US6260718 BA	20200717	PEXP		Calculated Patent Term Expiry	
US6378708 BB	20020430	LSGT	+	granted / extensions (spc, cpc, pte)	
US6378708 BB	20030909	LSRE	CC	CERTIFICATE OF CORRECTION	
US6378708 BB	20060531	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6378708 BB	20060531	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6378708 BB	20060627	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20060430
US6378708 BB	20140430	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6378708 BB	20140617	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20140430
US6378708 BB	20210517	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6497328 BB	20021224	LSGT	+	granted / extensions (spc, cpc, pte)	
US6497328 BB	20061226	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6497328 BB	20070124	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6497328 BB	20070124	LSLE	-STCH	INFORMATION ON STATUS: PATENT	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE

				DISCONTINUATION	FEES UNDER 37 CFR 1.362
US6497328 BB	20070220	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20061224
US6497328 BB	20220205	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6640984 BB	20031104	LSGT	+	granted / extensions (spc, cpc, pte)	
US6640984 BB	20040914	LSRE	CC	CERTIFICATE OF CORRECTION	
US6640984 BB	20071104	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6640984 BB	20071203	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6640984 BB	20071203	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6640984 BB	20071225	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20071104
US6640984 BB	20221029	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
WO9511608 A1	19950504	LSPB	+	published / reissued	
WO9511608 A1	19960228	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2170634 COUNTRY OF REF DOCUMENT : CA
WO9511608 A1	19960328	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994930682 COUNTRY OF REF DOCUMENT : EP
WO9511608 A1	19960828	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994930682 COUNTRY OF REF DOCUMENT : EP
WO9511608 A1	20000626	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994930682 COUNTRY OF REF DOCUMENT : EP

Title: VIGA TELESCOPICA Y PROCEDIMIENTO DE MONTAJE CORRESPONDIENTE

Abstract: A body of rectangular cross section forms a pair of opposing inner surfaces for guiding a profile. One of inner surfaces in another pair fixes a fastener that press-fixes the profile in place relative to the other inner surface of the same pair. The gap corresponding to the difference between the length of the body and height of the profile ranges from 3 to 50 millimeters or 5 to 15 millimeters. An independent claim is also included for an assembling method of a telescopic beam.

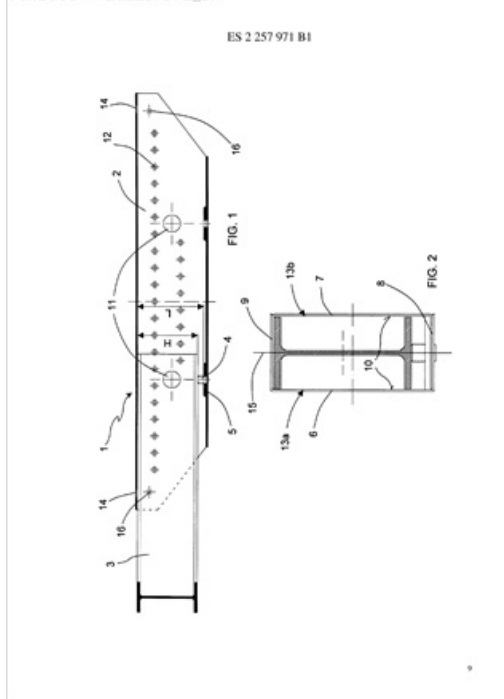
Classifications:

International (IPC 8-9): E04C3/07 E04G23/02 (Advanced/Invention)

CPC: E04C3/07 E04G23/0218

European: E04C3/07 E04G23/02C

PatBase - ES2257971_BA



Family:

Publication number	Publication date	Application number	Application date
ES2257971 AA	20060801	ES20050001866	20050729
ES2257971 BA	20070401	ES20050001866	20050729

Priority:

ES20050001866 20050729

Probable Assignee:

MAJO CLAVELL NARCIS

Assignee(s): (std):

MAJO CLAVELL NARCIS

Inventor(s): (std):

MAJO CLAVELL NARCIS

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES2257971 AA	20060801	LSPB	+	published / reissued	
ES2257971 AA	20060801	LSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 20060801 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
ES2257971 BA	20070401	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2257971 BA	20070401	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2257971B1 COUNTRY OF REF DOCUMENT : ES
ES2257971 BA	20180809	LSLE	-FD2A	ANNOUNCEMENT OF LAPSE IN SPAIN	EFFECTIVE DATE : 20180809
ES2257971 BA	20250729	PEXP		Calculated Patent Term Expiry	

Title: ARRANGEMENT FOR FORMING ACCESS HOLES

Abstract: The device has a concealed shuttering element comprising at least two foundation bodies (1) mounted opposite one another and sealing flush with the outer concrete faces. Several short pipes (3) are formed in one piece on the inwardly facing surface of the foundation bodies. These short pipes are mounted in pairs opposite one another and are each connected together by a pipe element (17) which is mounted perpendicular in the concrete. One foundation body can have on the inner face at least one multisection pipe connected integral with the foundation whilst a further foundation has corresponding short pipes connectable with the free ends of the pipe sections of the first foundation.

Classifications:

International (IPC 8-9): E04G15/06 F16L5/14

H02G3/22 (Advanced/Invention);

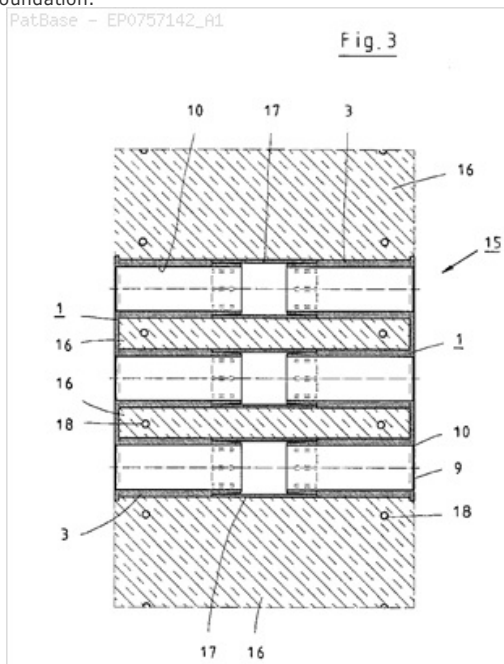
E04G15/00 F16L5/02 H02G3/22 (Core/Invention)

International (IPC 1-7): E04G15/00 E04G15/06 F16L5/00 H02G3/22

CPC: E04G15/061 F16L5/14 H02G3/22

European: E04G15/06B F16L5/14 H02G3/22

PatBase - EP0757142_A1

**Family:**

Publication number	Publication date	Application number	Application date
DE19528685 A1	19970206	DE19951028685	19950803
DE19528685 C2	19990218	DE19951028685	19950803
DE29519537 U1	19960321	DE19952019537U	19950803
EP0757142 A1	19970205	EP19960112099	19960726

Priority:

DE19951028685 19950803 DE19952019537U 19950803

Probable Assignee:

SAURWEIN BERNDT

Assignee(s): (std):

SAURWEIN BERNDT

Assignee(s):

SAURWEIN BERNDT 64711 ERBACH DE

Inventor(s): (std):

SAURWEIN BERNDT

Inventor(s):

SAURWEIN BERNDT 64711 ERBACH DE

Designated states:

AT BE CH DE DK FR GB IT LI LU NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE19528685 A1	19970206	LSPB	+	published / reissued	
DE19528685 A1	19970206	LSSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE19528685 A1	19970313	LSLI	8122	NONBINDING INTEREST IN GRANTING LICENCES DECLARED	
DE19528685 C2	19990218	LSGT	+	granted / extensions (spc, cpc, pte)	
DE19528685 C2	19990218	LSGT	+D2	GRANT AFTER EXAMINATION	
DE19528685 C2	19990812	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE19528685 C2	20020926	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE19528685 C2	20150803	PEXP		Calculated Patent Term Expiry	
DE29519537 U1	19960321	LSGT	+	granted / extensions (spc, cpc, pte)	
DE29519537 U1	19960321	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 19960321

DE29519537 U1	19991007	LSLE	-R156	LAPSE OF IP RIGHT AFTER 3 YEARS	EFFECTIVE DATE : 19990601
DE29519537 U1	20050803	PEXP		Calculated Patent Term Expiry	
EP0757142 A1	19970205	LSPB	+	published / reissued	
EP0757142 A1	19980429	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19970806

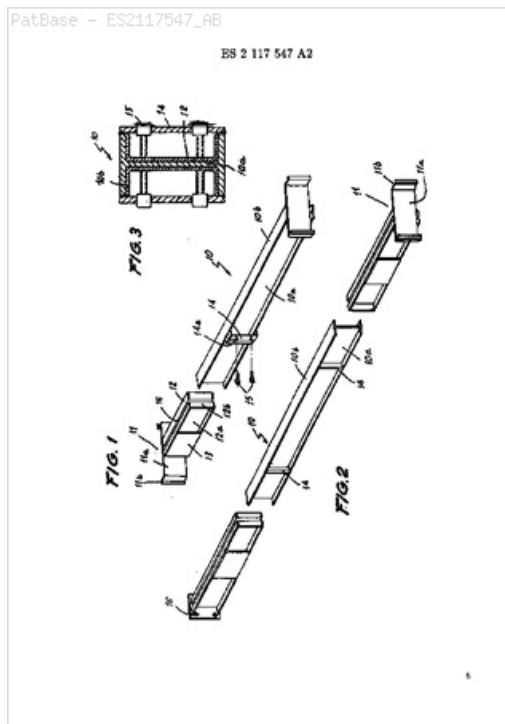
Title: Improved beam with extendible anchoring

Abstract: The recommended beam with extendible anchoring consists basically of a conventional "IPE" beam, in which fastening elements have been arranged and, at its ends, the corresponding means for securing the ends of the beam of variable length to the load-bearing walls. The securing means which are incorporated at the ends of the conventional beam are formed by a support formed by a planar part and an angular part, arranged at the ends of the planar part, the support being secured to the walls by means of the corresponding screws or rods or, alternately, directly embedded in the vertical planes of the load-bearing walls, inside walls or partitions.

Classifications:

International (IPC 8-9): E04C3/06 E04G23/02 (Advanced/Invention);
E04C3/04 E04G23/02 (Core/Invention)

International (IPC 1-7): E04C3/06 E04G23/02



Family:

Publication number	Publication date	Application number	Application date
ES2117547 AB	19980801	ES19950002158	19951106
ES2117547 AC	20000216	ES19950002158	19951106
ES2117547 BA	20040616	ES19950002158	19951106

Priority:

ES19950002158 19951106

Probable Assignee: HERMS GALVADA ANTONIO

Assignee(s): (std): HERMS GALVADA ANTONIO

Inventor(s): (std): HERMS GALVADA ANTONIO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES2117547 AB	19980801	LSPB	+	published / reissued	
ES2117547 AC	20000216	LSSES	+EC2A	SEARCH REPORT PUBLISHED	TEXT : 19980819
ES2117547 BA	20040616	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2117547 BA	20040616	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2117547B1 COUNTRY OF REF DOCUMENT : ES
ES2117547 BA	20050501	LSWD	-FA2A	APPLICATION WITHDRAWN	EFFECTIVE DATE : 20050401
ES2117547 BA	20151106	PEXP		Calculated Patent Term Expiry	

Title: ADJUSTABLE SECURITY APPARATUS FOR PROTECTION OF DOOR AND WINDOW OPENINGS

Abstract: An adjustable apparatus for protection of a door or window opening having an upper frame and a lower frame, the adjustable apparatus including a plurality of **posts**, a first end plate for fastening a first end of the adjustable apparatus to the upper frame of the opening, and a second end plate for fastening a second end of the apparatus to the lower frame of the opening, wherein the plurality of **posts** further include a first portion having a predetermined length and a second portion having a predetermined length, wherein the first portion **telescopically** engages the second portion, and wherein a length of the plurality of **posts telescopically** adjusts to correspond to a longitudinal dimension between the upper frame and the lower frame of the opening.

Classifications:

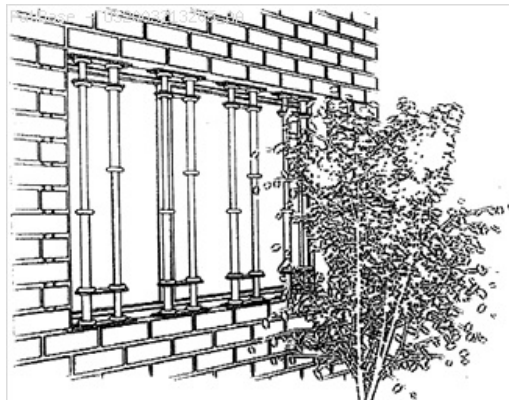
International (IPC 8-9): E04G21/32 E04H12/08 E06B3/68
E06B9/02 (Advanced/Invention);
E04G21/32 E04H12/00 E06B3/00 E06B9/02 (Core/Invention)

International (IPC 1-7): E04H12/00 E04H12/08 E06B7/00

CPC: E04G21/3204 E06B9/02

European: E04G21/32B E06B9/02

US: 49/463 49/55 49/57 52/653.1 52/653.2



Family:

Publication number	Publication date	Application number	Application date
AU2003223476 AA	20031202	AU20030223476	20030417
BRPI0310110 A	20050531	BR2003PI10110	20030417
CN100476159 C	20090408	CN20038010829	20030417
CN1867743 A	20061122	CN20038010829	20030417
ES2294878 AA	20080401	ES20040050070	20030417
ES2294878 BA	20090301	ES20040050070	20030417
US2003213205 AA	20031120	US20020143977	20020514
US2005081446 AA	20050421	US20040986226	20041112
US7441370 BB	20081028	US20040986226	20041112
WO03097982 A2	20031127	WO2003US10475	20030417
WO03097982 A3	20090723	WO2003US10475	20030417

Priority:

US20020143977 20020514 WO2003US10475 20030417 US20040986226 20041112

Probable Assignee: GUERRA ASUNSOLO RICARDO

Assignee(s): (std): GUERRA RICARDO ; MULLER MAURO ; RICARDO GUERRA ; YASONSULO RICADO GIRA

Assignee(s): ASUNSOLO RICARDO GUERRA ; GUERRA ASUNSOLO RICARDO

Inventor(s): (std): MULLER MAURO ; MAURO MULLER

Agent(s): SUGHRUE MION PLLC

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 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
AU2003223476 AA	20031202	LSPB	+	published / reissued	
AU2003223476 AA	20050203	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
BRPI0310110 A	20050531	LSPB	+	published / reissued	
BRPI0310110 A	20070605	LSRV	-B11A	DISMISSAL ACC. ART.33 OF IPL - EXAMINATION NOT REQUESTED WITHIN 36 MONTHS OF FILING	
BRPI0310110 A	20071211	LSRV	-B11Y	DEFINITIVE DISMISSAL ACC. ARTICLE 33 OF IPL - EXTENSION OF TIME LIMIT FOR REQUEST OF EXAMINATION EXPIRED	
CN100476159 C	20090408	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100476159 C	20090408	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	

CN100476159 C	20230417	PEXP		Calculated Patent Term Expiry	
CN1867743 A	20061122	LSPB	+	published / reissued	
CN1867743 A	20061122	LSPB	+C06	PUBLICATION	
ES2294878 AA	20080401	LSPB	+	published / reissued	
ES2294878 AA	20060516	LSAS	+PC2A	TRANSFER OF PATENT	
ES2294878 AA	20080401	LSSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 20080401 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
ES2294878 BA	20090301	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2294878 BA	20090301	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2294878B1 COUNTRY OF REF DOCUMENT : ES
ES2294878 BA	20180809	LSLE	-FD2A	ANNOUNCEMENT OF LAPSE IN SPAIN	EFFECTIVE DATE : 20180809
ES2294878 BA	20230417	PEXP		Calculated Patent Term Expiry	
US2003213205 AA	20031120	LSPB	+	published / reissued	
US2003213205 AA	20061106	LSWD	-ABD1	Abandoned -- After Examiner's Answer or Board of Appeals Decision	
US2005081446 AA	20050421	LSPB	+	published / reissued	
US2005081446 AA	20080624	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GUERRA ASUNSOLO, RICARDO, MEXICO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MULLER, MAURO; REEL/FRAME:021145/0083 EFFECTIVE DATE : 20050309
US7441370 BB	20081028	LSGT	+	granted / extensions (spc, cpc, pte)	
US7441370 BB	20121028	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7441370 BB	20121028	LSRE	+REIN	REINSTATEMENT AFTER MAINTENANCE FEE PAYMENT CONFIRMED	
US7441370 BB	20121218	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20121028
US7441370 BB	20121226	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7441370 BB	20130624	LSGT	PAT1	Patented Case	
US7441370 BB	20130624	LSRE	+PRDP	PATENT REINSTATED DUE TO THE ACCEPTANCE OF A LATE MAINTENANCE FEE	EFFECTIVE DATE : 20130624
US7441370 BB	20130624	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7441370 BB	20160301	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7441370 BB	20191017	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : ENTITY STATUS SET TO MICRO (ORIGINAL EVENT CODE: MICR); ENTITY STATUS OF PATENT OWNER: MICROENTITY
US7441370 BB	20191102	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7441370 BB	20241112	PEXP		Calculated Patent Term Expiry	
WO03097982 A2	20031127	LSPB	+	published / reissued	
WO03097982 A2	20041112	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 200450070 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :

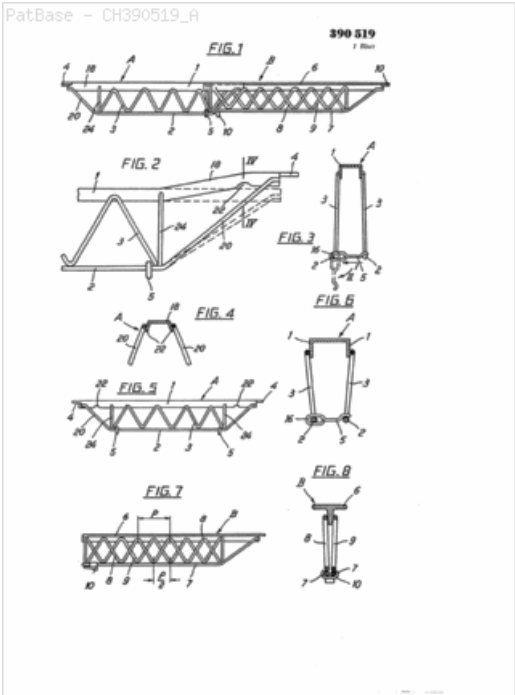
WO03097982 A2	20041112	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 20038108291 COUNTRY OF REF DOCUMENT : CN
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WO03097982 A2	20041116	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO03097982 A2	20050713	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO03097982 A2	20060705	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO03097982 A2	20060705	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : JP
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WO03097982 A2	20090301	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 200450070 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :

Title: Trave per armature provvisorie di solai Trave per armature provvisorie di solai Provisional **reinforcement** beam slabs (Machine translation)

Abstract: Source: CH390519A [IT] [Source: Claim 1] 1. Trave secondo la rivendicazione, caratterizzata da ciò che la prima semitrave (A) e costituita da una briglia superiore (1), da due briglie (2) inferiori e da due fiancate formate da tondini (3) piegati a 10o zig-zag e saldati in alto e in basso, in corrispondenza alle loro piegature rispettivamente alle briglie inferiori (2), mentre la seconda semitrave (B) disposta all'interno della prima semitrave, e costituita da una briglia superiore (6), da due briglie inferiori (7) e da i05 due fiancate formate da tondini (8) piegati a zig-zag e saldati alla briglia superiore (6) ed alle rispettive briglie inferiori (7); le due semitravi sono munite di mezzi di collegamento costituiti dalle rispettive briglie superiori (1, 6) **poste** l'una all'interno dell'altra e no di almeno un organo di serraggio (10) scorrevole lungo la briglia inferiore (7) della seconda semitrave e che si impegna con l'estremità trasversale (5) delle briglie inferiori (2) della prima semitrave.

Machine translation: [Source: Claim 1] 1. Beam according to claim, characterised by what the first semitrave (A) consists of an upper bridle (1), two bridle (2) below and both sides formed from rods (3) folded in the 10th zig-zag and top and bottom welded at their bridles respectively lower bends (2), while the second semitrave (B) placed inside the first semitrave, and consists of an upper bridle (6), (7) and two lower harness i05 sides consisting of rods (8) zig-zag folded and welded to the upper bridle (6) and to their bridles (7); the two semitravi are equipped with Fasteners made by their bridles (1, 6) placed within each other and not at least one organ (10) sliding along the bridle under (7) of the second semitrave and who agrees with the far end (5) lower harness (2) of the first semitrave.

Classifications:
International (IPC 8-9): E04G11/56 (Advanced/Invention);
E04G11/00 (Core/Invention)
International (IPC 1-7): E04G11/56
CPC: E04G11/56
European: E04G11/56



Family:

Publication number	Publication date	Application number	Application date
CH390519 A	19650415	CH19600007977	19600713

Priority:

IT19590013729 19590814

Probable Assignee:

FIX EDILE ITALIANA S R L

Assignee(s): (std):

FIX EDILE ITALIANA S R L

Inventor(s): (std):

EDGARDO CIANI

Inventor(s):

CIANI EDGARDO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CH390519 A	19650415	LSGT	+	granted / extensions (spc, cpc, pte)	
CH390519 A	19800713	PEXP		Calculated Patent Term Expiry	

Title: ERECTION SCAFFOLDING WHICH IS MOVABLE IN AN ELEVATOR SHAFT FOR THE MOUNTING OF SHAFT EQUIPMENT

Abstract: For assembling hoistway or elevator shaft equipment, there is moved in vertical direction within the hoistway, an erection scaffolding comprising a first working platform, a second working platform, a third working platform and a fourth working platform. The first working platform is arranged at the lower end and the second working platform at the upper end of a elevator car support frame serving for the reception of the elevator cabin following completion of the erection operations. The erection scaffolding continues above the elevator car support frame with the third working platform and ends with the fourth working platform. A suspension tube, a lower deflecting roller and an upper deflecting roller serve as a suspension system for the elevator car support frame. The lower deflecting roller is arranged at the upper end of the suspension tube and the upper deflecting roller is arranged at an elevator hoistway support. A cable, suspended at an, for instance, 3:1 mechanical advantage ratio of a hoist anchored at the elevator car support frame, interconnects these lower and upper deflecting rollers. The elevator hoistway support carries a velocity limiter and a hoist comprising a hoist or tackle drum which serves for the transport of materials. A hoist or tackle cable is directed to a working location by a cantilever crane arranged at the upper end of the suspension tube. The working platforms, which are accessible by way of ladders and trap doors, are secured by railings and hinged barriers.

Classifications:

International (ipc 8-9): B66B19/00 B66B7/00 B66B7/02 C12N15/00 C12N15/74 E04G1/36 E04G3/28 (Advanced/Invention); B66B19/00 B66B7/00 C12N15/00 C12N15/74 E04G1/36 E04G3/28 (Core/Invention)

International (ipc 1-7): B21D B66B19/0 B66B7/00 B66B7/02

B66B9/00 C12N15/00 C12N15/74 E04G1/36 E04G3/10

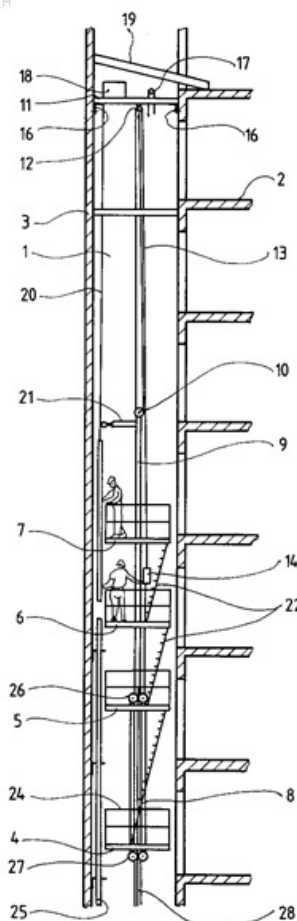
CPC: B66B19/00

European: B66B19/00

US: 187/1R 187/414 187/95 52/30

PatBase - US5230404_A

Fig.1



Family:

Publication number	Publication date	Application number	Application date
AT120428 E	19950415	AT19920101056T	19920123
CA2060812 AA	19920902	CA19922060812	19920211
DE59201741 D1	19950504	DE19925001741	19920123
EP0501140 A1	19920902	EP19920101056	19920123
EP0501140 B1	19950329	EP19920101056	19920123
ES2073192 T3	19950801	ES19920101056T	19920123
HK125996 A	19960719	HK19960001259	19960711
JP3202055 B2	20010827	JP19920028444	19920214
JP4317977 A2	19921109	JP19920028444	19920214
RU2124053 C1	19981227	SU19925011329	19920228
US5230404 A	19930727	US19920843150	19920228
ZA9200710 A	19921028	ZA19920000710	19920131

Priority:

CH19910000629 19910301 CA19922060812 19920211

Probable Assignee: INVENTIO AG

Assignee(s): (std): INVENTIO A G ; INVENTIO AG ; NOVARTIS AG

Assignee(s): INVENTIO AG HERGISWIL NIDWALDEN CH ; INVENTIO AKTIENGESSELLSCHAFT ; KLEIN HORST

Inventor(s): (std): SNEZHANA NEFF ; TOMAS SHURR ; SAMIR JAOUA ; HORST KLEIN ; HORUSUTO KURAIN ; KLEIN HORST

Inventor(s): KLEIN HORST W 6466 NIEDERGRUENDAU DE

Agent(s): RICHES MCKENZIE AND HERBERT LLP; KAWAGUCHI YOSHIO

Designated states: AT BE CH DE ES FR GB IT LI

Legal status (INPADOC)
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Patent	Date recorded	Event group	Code	Event	Details
AT120428 E	19950415	LSGT	+	granted / extensions (spc, cpc, pte)	
AT120428 E	19971015	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT120428 E	20120123	PEXP		Calculated Patent Term Expiry	
CA2060812 AA	19920902	LSPB	+	published / reissued	
CA2060812 AA	20000211	LSLE	-FZDE	DEAD	
DE59201741 D1	19960425	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE59201741 D1	20020214	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
EP0501140 A1	19920902	LSPB	+	published / reissued	
EP0501140 A1	19930421	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19930218
EP0501140 A1	19940803	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19940616
EP0501140 B1	19950329	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0501140 B1	19950801	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2073192 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
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EP0501140 B1	19960112	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 19960112 YEAR OF FEE PAYMENT : 5
EP0501140 B1	19960320	LSGT	+26N	NO OPPOSITION FILED	
EP0501140 B1	19960418	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 19960418 YEAR OF FEE PAYMENT : 5
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EP0501140 B1	19970124	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 : 19970124
EP0501140 B1	19970131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE LAPSED DATE : 19970131
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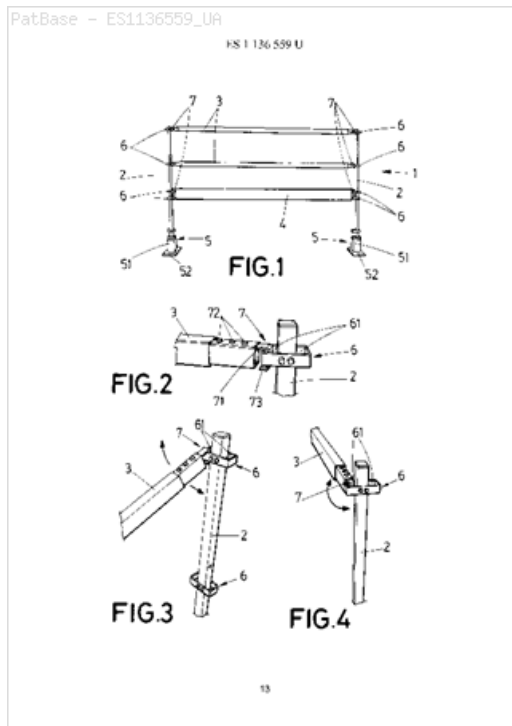
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EP0501140 B1	19970731	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : INVENTIO A.G. EFFECTIVE DATE : 19970131
EP0501140 B1	19970915	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0501140 B1	19990316	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 19990201
EP0501140 B1	19991213	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 19991213 YEAR OF FEE PAYMENT : 9
EP0501140 B1	19991217	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 19991217 YEAR OF FEE PAYMENT : 9
EP0501140 B1	19991221	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 19991221 YEAR OF FEE PAYMENT : 9
EP0501140 B1	20010123	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 : 20010123
EP0501140 B1	20010912	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20010123
EP0501140 B1	20010928	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 : 20010928
EP0501140 B1	20011101	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20011101
EP0501140 B1	20011102	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0501140 B1	20050123	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 : 20050123
EP0501140 B1	20120123	PEXP		Calculated Patent Term Expiry	
ES2073192 T3	19950801	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2073192 T3	19950801	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 501140 COUNTRY OF REF DOCUMENT : ES
ES2073192 T3	20120123	PEXP		Calculated Patent Term Expiry	
HK125996 A	19960719	LSGT	+	granted / extensions (spc, cpc, pte)	
HK125996 A	20041215	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE	

				FAILURE TO PAY THE RENEWAL FEE)	
HK125996 A	20160711	PEXP		Calculated Patent Term Expiry	
JP3202055 B2	20010827	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3202055 B2	20040622	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP3202055 B2	20120214	PEXP		Calculated Patent Term Expiry	
JP4317977 A2	19921109	LSPB	+	published / reissued	
RU2124053 C1	19981227	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2124053 C1	20120228	PEXP		Calculated Patent Term Expiry	
US5230404 A	19930727	LSGT	+	granted / extensions (spc, cpc, pte)	
US5230404 A	19920406	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVENTIO AG A CORPORATION OF SWITZERLAND, SWITZ OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:KLEIN, HORST; REEL/FRAME:006062/0885 EFFECTIVE DATE : 19920302
US5230404 A	19930715	LSGT	PAT1	Patented Case	
US5230404 A	19961218	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5230404 A	20010729	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5230404 A	20011002	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20010727
US5230404 A	20180127	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5230404 A	20180127	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5230404 A	20120228	PEXP		Calculated Patent Term Expiry	
ZA9200710 A	19921028	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA9200710 A	20120130	PEXP		Calculated Patent Term Expiry	

Title: VALLA DE PROTECCION PROVISIONAL PARA OBRAS DE CONSTRUCCION

Abstract: Source: ES1136559U [ES] 1. Valla de proteccion provisional para obras de construccion que, comprendiendo, al menos, dos **postes** (2) verticales entre los que se incorporan una o mas barras (3) longitudinales y, al menos, un rodapie (4), que se unen mediante elementos de enganche (6) incorporados de manera solidaria a diferentes alturas en el **poste** (2), para recibir los extremos (7) de las barras (3) y del rodapie (4), y estando dichos **postes** (2) incorporados sobre bases de soporte (5) para su posicionado y/o fijacion al borde de la superficie de la obra a proteger, por ejemplo forjados, muros, escaleras u otros elementos en construccion, esta caracterizada porque cada uno de dichos elementos de enganche (6) determina sendos alojamientos (61), uno a cada lado opuesto del **poste** (2), de configuracion plantar y dimensiones aptas para recibir holgadamente los extremos (7) de las barras (3) y del rodapie (4); porque dichos extremos (7) tienen forma de gancho y se acoplan en dichos alojamientos (61) con una libertad de giro de hasta 180 degrees, tanto en el plano horizontal como en el plano vertical, de manera que las barras (3) y el rodapie (4) se pueden acoplar al **poste** (2) en cualquiera de dichos angulos para orientar la posicion y la inclinacion de la valla; y porque los **postes** (2) se incorporan sobre diferentes tipos de base de soporte (5), tal como una base metalica formada por una peana (51) con una pletina de apoyo (52), o bien una base de soporte de tipo mordaza para encofrado y entablado, o bien una base de soporte tipo gato (5') para tierra armada, especificamente adaptado para su colocacion en bloques prefabricados verticales. 2. Valla de proteccion provisional para obras de construccion segun la reivindicacion 1, caracterizada porque los elementos de enganche (6) de cada **poste** (2) son cuatro. 3. Valla de proteccion provisional para obras de construccion segun la reivindicacion 1 o 2, caracterizada porque los alojamientos (61) de cada elemento de enganche (6) son de configuracion plantar cuadrada y los ganchos de los extremos (7) de las barras (3) y rodapie (4) estan formados por una prolongacion (71) maciza en forma de cerco cuadrangular que dimana del extremo de la barra o rodapie, estando abierto inferiormente. 4. Valla de proteccion provisional para obras de construccion segun la reivindicacion 3, caracterizada porque la prolongacion (71) que forma el gancho en el extremo de las barras (3) y rodapie (4), esta unido mediante remaches (72) al tubo que constituye la barra (3) o rodapie (4). 5. Valla de proteccion provisional para obras de construccion segun la reivindicacion 3 o 4, caracterizada porque la prolongacion (71) en forma de gancho del extremo (7) de las barras (3) y rodapie (4) determina un apendice entrante inferior (73) que se traba en el elemento de enganche (6) e impide la salida eventual no prevista de dicho extremo (7) de su alojamiento (61) en dicho elemento de enganche (6) del **poste** (2). 6. Valla de proteccion provisional para obras de construccion segun cualquiera de las reivindicaciones 1-5, caracterizada porque los **postes** (2) estan constituidos por perfiles metalicos de tubo de seccion cuadrada, las barras (3) tambien tienen una configuracion tubular de seccion cuadrada o rectangular, y son extensibles telescopicamente, al igual que el rodapie (4) que es asimismo de caracter extensible telescopicamente, y de seccion rectangular, pero con un perfil mas alto. 7. Valla de proteccion provisional para obras de construccion segun cualquiera de las reivindicaciones 1-5, caracterizada porque la base de soporte tipo gato (5') comprende, al menos, un tramo vertical de tubo hueco (53) para el acoplamiento del **poste** (2) situado de forma perpendicular a las dos piezas tubulares moviles (54, 55) que, movidas mediante una varilla roscada (56), regulan la separacion entre ellas, estando una primera pieza tubular movil (54) unida solidariamente al tramo vertical de tubo hueco (53) que acopla el **poste** (2) y a la varilla roscada (56), y una segunda pieza tubular movil (55) unida solidariamente a la tuerca de plato (57) en que rosca la varilla (56), y contando, cada una de estas dos piezas tubulares moviles (54, 55), con respectivas placas de apriete (58) cuya configuracion tiene forma de L, estando ambas enfrentadas simetricamente, para su ajuste a los cantos superiores opuestos del bloque vertical al que se pretende acoplar. 8. Valla de proteccion provisional para obras de construccion segun la reivindicacion 7, caracterizada porque cada una de estas dos placas (58) de apriete de configuracion en L, esta adosada y unida solidariamente, en su parte opuesta a la que las enfrenta entre si, a un segmento de tubo vertical de refuerzo (59). 9. Valla de proteccion provisional para obras de construccion segun cualquiera de las reivindicaciones 1-8, caracterizada porque comprende la incorporacion al **poste** (2) de unas cunas (8) para la fijacion de las bases de soporte de tipo gato (5') a cualquier altura del mismo distinta del extremo inferior. 10. Valla de proteccion provisional para obras de construccion segun la reivindicacion 9, caracterizada porque las cunas (8) consisten en una pieza angular compuesta por dos tramos de tubo (81, 82) perpendiculares entre si, estando un primer tramo (81) provisto de medios para su fijacion perpendicular al **poste**, preferentemente un cajeado en U (83) con orificios (84) para la insercion de un tornillo pasante, y estando un segundo tramo (82) soldado inferiormente al extremo opuesto del primero para quedar paralelo al **poste** (2) y poder ser alojado en un soporte tipo gato (5'). **Machine translation:** 1. Provisional protection fence for construction sites that comprising at least two poles (2) vertical including one or more bars (3) are incorporated longitudinal and at least one rodapie (4), which are joined by elements Hitch (6) integrally incorporated at different heights in the **post** (2) for receiving the ends (7) of the bars (3) and the baseboard (4) and said **posts** (2) being built on the basis of support (5) for positioning and / or fixing the edge of the work surface to protect, for example floors, walls, stairs or other elements in construction, is characterized in that each of said engagement elements (6) determines two separate Accommodation (61), one on each opposite side of the **post** (2), plant configuration and suitable for loosely receiving the ends (7) of the bars (3) and the baseboard (4) dimensions; that said ends (7) are hook-shaped and engage in said seats (61) with a freedom of rotation of 180 degrees in both the horizontal and in the vertical plane, so that the bars (3) and rodapie (4) can be attached to the **post** (2) in any of these angles to guide the position and the inclination of the fence; and in that the **posts** (2) are incorporated on different types of base support (5), such as a metallic base formed by a base (51) with a support plate (52) or a support base type gag Formwork and boarding, or a cat-like support base (5 ') for reinforced earth, specifically adapted for vertical placement in prefabricated blocks. 2. Fence provisional protection for the building according to claim 1, characterized in that the engagement elements (6) of each **post** (2) is four. 3. Valla temporary protection for the building according to claim 1 or 2 wherein the housings (61) of each hook element (6) are planted square configuration and hooks at the ends (7) of the bars (3) and skirting (4) they are formed by a prolongation (71) in the form of rectangular solid fence that emanates from the end of the bar or baseboard, being downwardly open. 4. fence provisional protection for the building according to claim 3, wherein the extension (71) forming the hook at the end of the bars (3) and skirting (4) is attached by rivets (72) to the tube forming the bar (3) or skirting board (4). 5. fence provisional protection for the building according to claim 3 or 4, characterized in that the prolongation (71) hooked end (7) of the bars (3) and skirting (4) determines a lower incoming appendix (73) that locks the hooking element (6) and prevents any outflow unanticipated said end (7) of its housing (61) in said hooking element (6) of the **post** (2). 6. fence provisional protection for the building according to any of claims 1-5, characterized in that the **posts** (2) are composed of metallic profiles of square pipe, bars (3) also have a square section tubular configuration or rectangular, and they are extensible **telescopically**, like the skirting board (4) which is also **telescopically** extensible character and rectangular section, but with a higher profile. 7. fence provisional protection for the building according to any of claims 1-5, wherein the base cat-like support (5 ') comprises at least one vertical section hollow tube (53) for engaging the **post** (2) located perpendicular to the two mobile tubular pieces (54, 55), driven by a threaded rod (56) regulate the separation between them, a first movable tubular member (54) integrally attached to the vertical section hollow tube (53) coupling the **post** (2) and the threaded rod (56) and a second movable tubular member (55) integrally attached to the nut plate (57) in which threaded rod (56), and having, each of these two mobile tubular pieces (54, 55), with respective clamping plates (58) whose configuration is L-shaped, both of facing each symmetrically, for adjustment to the opposite upper edges of the vertical block that is to coupling. 8. fence provisional protection for the building of claim 7, wherein each of the two plates (58) clamping configuration in L, is attached and integrally attached at its opposite end to that facing each other, a segment vertical **reinforcement** tube (59). 9. Provisional protection fence for construction sites according to any of claims 1-8, characterized in that it comprises the incorporation into the **post** (2) of cradles (8) for fixing the support bases type cat (5 ') to any different height of the lower end. 10. Fence provisional protection for the building of claim 9, wherein the cradles (8) consist of an angular piece composed by two pipe sections (81, 82) perpendicular to each other, a first section (81) provided means for attachment perpendicular to the pole, preferably a recess in U (83) with holes (84) for insertion of a through bolt, and a second section (82) below to the opposite end of the first soldier being to be parallel to the pole (2) to be housed in a cylinder (5 ') type support.

Classifications:**International (IPC 8-9):** E04G21/32 E04H17/00 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
ES1136559 UA	20150223	ES20150030107U	20150202
ES1136559 Y1	20150518	ES20150030107U	20150202

Priority:

ES20150030107U 20150202

Probable Assignee: PACHECO VICENTE FELIPE**Assignee(s):** (std): PACHECO VICENTE AINARA ; PACHECO VICENTE FELIPE**Assignee(s):** AINARA PACHECO VICENTE ; FELIPE PACHECO VICENTE**Inventor(s):** (std): PACHECO VICENTE AINARA ; PACHECO VICENTE FELIPE**Inventor(s):** AINARA PACHECO VICENTE ; FELIPE PACHECO VICENTE**Legal status (INPADOC)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
ES1136559 UA	20150223	LSPB	+	published / reissued	
ES1136559 Y1	20150518	LSGT	+	granted / extensions (spc, cpc, pte)	
ES1136559 Y1	20150518	LSGT	+FG1K	UTILITY MODEL GRANTED	EFFECTIVE DATE : 20150511
ES1136559 Y1	20250202	PEXP		Calculated Patent Term Expiry	

Title: APPARATUS FOR CONSTRUCTING A MONOLITHIC SILO

Abstract: System for constructing concrete silos wherein molds are sequentially erected and filled as a three tiered mold unit with a crane scaffold supported on the top mold by radial arms which rest on ledges extending inwardly from the inner face thereof. The outer form of the bottom mold is then dismantled into semi-circular sections, raised by using the three jib cranes of the crane scaffold and erected as the fourth tier. The inner form of the bottom mold is then dismantled in predetermined length sections for passage through the restricted space between the crane scaffold and the third tier and then erected to complete the fourth tier mold. The crane scaffold is then elevated by suspending it from the top of the fourth tier; the radial arms are then seated on the horizontal ledges of the fourth tier. A cart is rotatably mounted about the center post of the scaffold for evenly feeding concrete into the molds. Safety means are provided.

Classifications:

International (IPC 8-9): E04G11/28 E04G9/06

E04H7/26 (Advanced/Invention);

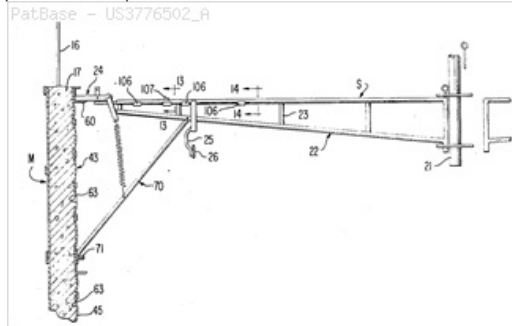
E04G11/00 E04G9/02 E04H7/00 (Core/Invention)

International (IPC 1-7): E04B1/16 E04G11/22 E04G11/28 E04G9/06 E04H7/22

CPC: Y10S425/045 E04G11/28 E04G9/06 E04H7/26

European: E04G11/28 E04G9/06 E04H7/26

US: 249/20 249/33 249/47 264/32 264/33 425/110 425/151 425/186 425/213 425/63 425/64 425/DIG.45



Family:

Publication number	Publication date	Application number	Application date
CA948383 A1	19740604	CA19730167908	19730404
CA948383 A2	19740604	CA19730167908	19730404
CA956440 A1	19741022	CA19720152155	19720920
CA956440 A2	19741022	CA19720152155	19720920
US3619431 A	19711109	US19680720687	19680411
US3776502 A	19731204	US19710159948	19710706

Priority:

US19680720687 19680411 CA19690048339 19690410 US19710159948 19710706
CA19720152155 19720920 CA19730167908 19730404

Probable Assignee: SMOKER BENJAMIN K

Assignee(s): (std): SMOKER BENJAMIN K ; WEAVER R ; WEAVER RICHARD L

Assignee(s): WEAVER R US ; RICHARD L WEAVER

Inventor(s): (std): SMOKER BENJAMIN K ; WEAVER R ; WEAVER RICHARD L

Inventor(s): WEAVER R US ; BENJAMIN K SMOKER ; RICHARD L WEAVER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA948383 A2	19740604	LSGT	+	granted / extensions (spc, cpc, pte)	
CA956440 A2	19741022	LSGT	+	granted / extensions (spc, cpc, pte)	
US3619431 A	19711109	LSGT	+	granted / extensions (spc, cpc, pte)	
US3776502 A	19731204	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: METHOD AND APPARATUS FOR CONSTRUCTING CONCRETE FORMWORK

Abstract: A device for use with formwork in concrete construction. The device comprising: a body having a bore for defining a first aperture; one or more sidewalls coupled to the body, the sidewalls extending upwardly outwardly with respect to the body; wherein, when the body is releasably coupled to the formwork, the bore is adapted to receive a formwork coupling element. The device can be incorporated into concrete structures within building.

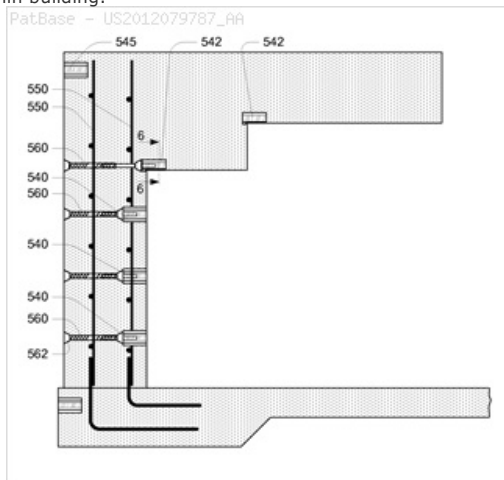
Classifications:

International (IPC 8-9): E04B1/38 E04B1/41 E04B1/48 E04G17/00 E04G17/06 E04G17/065 E04G17/07 (Advanced/Invention); E04G11/06 (Advanced/Non-invention)

CPC: E04G17/047 E04G17/06 E04G17/065 E04G17/0654 Y10T428/12375 E04B1/38 E04G11/06 E04G17/0658

European: E04G17/04D E04G17/06 E04G17/065 E04G17/065B4

US: 249/216 249/42 428/598 52/699 52/699P 52/704 52/704S 52/707 52/831



Family:

Publication number	Publication date	Application number	Application date
AU2009243475 AA	20110113	AU20090243475	20091202
AU2009243476 AA	20110120	AU20090243476	20091202
AU2010262737 AA	20101223	AU20100262737	20100514
AU2010262737 AA	20120112	AU20100262737	20100514
US2012079787 AA	20120405	US20100376838	20100514
US8859107 BB	20141014	US20100376838	20100514
WO10144942 A1	20101223	WO2010AU00563	20100514

Priority:

AU20090902949	20090619	AU20090903091	20090702	AU20090243475	20091202
AU20090243476	20091202	WO2010AU00563	20100514	AU20100262737	20100514

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Assignee(s): (std): DOMENICO SCARINCI ; SCARINCI DOMENICO

Inventor(s): (std): DOMENICO SCARINCI ; SCARINCI DOMENICO

Agent(s): SCARINCI DOMENICO; MOLINS AND CO; MOLINS AND CO PTY LTD; MOLINS MICHAEL

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2009243475 AA	20110113	LSPB	+	published / reissued	
AU2009243475 AA	20141127	LSLE	-MK1	APPLICATION LAPSED SECTION 142(2)(A) - NO REQUEST FOR EXAMINATION IN RELEVANT PERIOD	
AU2009243476 AA	20110120	LSPB	+	published / reissued	
AU2009243476 AA	20141127	LSLE	-MK1	APPLICATION LAPSED SECTION 142(2)(A) - NO REQUEST FOR EXAMINATION IN RELEVANT PERIOD	
AU2010262737 AA	20101223	LSPB	+	published / reissued	
AU2010262737 AA	20120112	LSPB	+	published / reissued	
AU2010262737 AA	20161208	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE	

AU2010262737 AA	20161208	LSLE	-MK4	PAID FOR THE APPLICATION APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
US2012079787 AA	20120405	LSPB	+	published / reissued	
US8859107 BB	20141014	LSGT	+	granted / extensions (spc, cpc, pte)	
US8859107 BB	20140924	LSGT	PAT1	Patented Case	
US8859107 BB	20180528	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US8859107 BB	20181119	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US8859107 BB	20181119	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8859107 BB	20181119	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US8859107 BB	20181211	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20181014
US8859107 BB	20300620	PEXP		Calculated Patent Term Expiry (PTA 37 days)	
WO10144942 A1	20101223	LSPB	+	published / reissued	
WO10144942 A1	20111207	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13376838 COUNTRY OF REF DOCUMENT : US
WO10144942 A1	20111208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010262737 COUNTRY OF REF DOCUMENT : AU
WO10144942 A1	20111219	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO10144942 A1	20120112	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2010262737 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20100514 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO10144942 A1	20120718	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 10788487 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: FLOOR TILE WITH ADHESIVELY BONDED CONCRETE

Abstract: A floor tile for a raised floor. The floor tile is defined by a shallow upwardly-opening metal pan defining a shallow compartment in which a main preformed one-piece concrete block is secured. The main concrete block is preferably formed from a plurality of one-piece preformed concrete sub-blocks which are adhesively adhered in sideward abutting relationship to define a plan profile corresponding to the main concrete block. The main concrete block is then adhesively secured within the compartment of the metal pan.

Classifications:

International (IPC 8-9): E04B1/00 E04B5/00 E04B5/02 E04B9/00 E04C2/34 E04F15/00 E04F15/02 E04F15/024 E04F15/08 E04G11/36 (Advanced/Invention);

E04B5/00 E04B5/02 E04B9/00 E04C2/34 E04F15/00 E04F15/02 E04F15/024 E04F15/08 E04G11/00 (Core/Invention)

CPC: E04F15/02423 B24B7/22 B24B7/06 B28B1/002 B28B11/0845 B28B15/00 E04F15/02 E04F15/02429

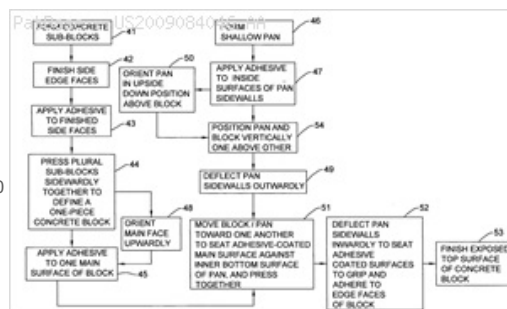
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US: 156/153 156/304.1 264/294 264/294P 52/126.6 52/126.600P

52/263 52/263S 52/366 52/366S 52/367 52/367S 52/742.1

52/742.14 52/745.19 52/745.190P 52/746.1 52/746.100S 52/747.11

52/747.12 52/747.120S 52/792.1



Family:

Publication number	Publication date	Application number	Application date
US2009084046 AA	20090402	US20070998918	20071203
US2009084066 AA	20090402	US20070998881	20071203
US2009085251 AA	20090402	US20080154363	20080522
US7770345 BB	20100810	US20070998918	20071203
US7810299 BB	20101012	US20070998881	20071203
US8002943 BB	20110823	US20080154363	20080522
WO09042229 A1	20090402	WO2008US11238	20080926

Priority:

US20070997023P 20070928 US20070998881 20071203 US20070998918 20071203
US20080154363 20080522

Probable Assignee: HAWORTH INC

Assignee(s): (std): BROWN RONALD H ; GINGRICH BRYAN R ; HAWORTH INC ; TUTTLE ROBERT L ; MCCONNELL ANTHONY ; YU X SHAWN ; WOELLER RANDOLPH

Assignee(s): PNC BANK NATIONAL ASSOCIATION ADMINISTRATIVE AGENT AS ; HAWORTH LTD ; GLOBAL INTEGRATED FLOORING SOLUTIONS INC ; GARRISON LOAN AGENCY SERVICES LLC

Inventor(s): (std): TUTTLE ROBERT L ; MCCONNELL ANTHONY ; BROWN RONALD H ; YU X SHAWN ; WOELLER RANDOLPH ; GINGRICH BRYAN R

Agent(s): FLYNN THIEL BOUTELL AND TANIS PC; MAKI MARK L ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC 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 ST 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
US2009084046 AA	20090402	LSPB	+	published / reissued	
US2009084066 AA	20090402	LSPB	+	published / reissued	
US2009084066 AA	20100922	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2009085251 AA	20090402	LSPB	+	published / reissued	
US2009085251 AA	20110518	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAWORTH, INC., MICHIGAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: BROWN, RONALD H.; MCCONNELL, ANTHONY; WOELLER, RANDOLPH; REEL/FRAME: 026301/0187 EFFECTIVE DATE : 20080508
US2009085251 AA	20110803	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7770345 BB	20100810	LSGT	+	granted / extensions (spc, cpc, pte)	

US7770345 BB	20080219	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAWORTH, INC., MICHIGAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MCCONNELL, ANTHONY; BROWN, RONALD H.; GINGRICH, BRYAN R.; AND OTHERS; REEL/FRAME:020523/0097; SIGNING DATES FROM 20071107 TO 20071108
US7770345 BB	20080219	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAWORTH, INC., MICHIGAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MCCONNELL, ANTHONY; BROWN, RONALD H.; GINGRICH, BRYAN R.; AND OTHERS; SIGNING DATES FROM 20071107 TO 20071108; REEL/FRAME:020523/0097
US7770345 BB	20100721	LSGT	PAT1	Patented Case	
US7770345 BB	20140115	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7770345 BB	20140404	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PNC BANK, NATIONAL ASSOCIATION, AS ADMINISTRATIVE OLDPARTY : COLLATERAL ASSIGNMENT OF PATENTS; ASSIGNOR:HAWORTH, INC., HAWORTH, LTD. AND SUCCESSORS; REEL/FRAME:032606/0875 EFFECTIVE DATE : 20140403
US7770345 BB	20180220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAWORTH, INC., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:PNC BANK, NATIONAL ASSOCIATION; REEL/FRAME:044977/0602 EFFECTIVE DATE : 20180215
US7770345 BB	20180220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAWORTH, LTD., CANADA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:PNC BANK, NATIONAL ASSOCIATION; REEL/FRAME:044977/0602 EFFECTIVE DATE : 20180215
US7770345 BB	20180220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GARRISON LOAN AGENCY SERVICES LLC, NEW YORK OLDPARTY : SECURITY INTEREST; ASSIGNORS:CAMINO MODULAR SYSTEMS INC.; GLOBAL INTEGRATED FLOORING SOLUTIONS INC.; REEL/FRAME:044980/0480 EFFECTIVE DATE : 20180215
US7770345 BB	20180220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GLOBAL INTEGRATED FLOORING SOLUTIONS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAWORTH, INC.; REEL/FRAME:044980/0555 EFFECTIVE DATE : 20180215
US7770345 BB	20180326	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7770345 BB	20180917	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7770345 BB	20180917	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7770345 BB	20180917	LSLE	-STCH	INFORMATION ON STATUS: PATENT	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE

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US7770345 BB	20181009	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20180810
US7770345 BB	20280127	PEXP		Calculated Patent Term Expiry (PTA 55 days)	
US7810299 BB	20101012	LSGT	+	granted / extensions (spc, cpc, pte)	
US7810299 BB	20080219	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAWORTH, INC., MICHIGAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROWN, RONALD H.; GINGRICH, BRYAN R.; MCCONNELL, ANTHONY; AND OTHERS; REEL/FRAME:020523/0091 EFFECTIVE DATE : 20071108
US7810299 BB	20100922	LSGT	PAT1	Patented Case	
US7810299 BB	20140312	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7810299 BB	20140404	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PNC BANK, NATIONAL ASSOCIATION, AS ADMINISTRATIVE OLDPARTY : COLLATERAL ASSIGNMENT OF PATENTS; ASSIGNOR:HAWORTH, INC., HAWORTH, LTD. AND SUCCESSORS; REEL/FRAME:032606/0875 EFFECTIVE DATE : 20140403
US7810299 BB	20180220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAWORTH, LTD., CANADA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:PNC BANK, NATIONAL ASSOCIATION; REEL/FRAME:044977/0602 EFFECTIVE DATE : 20180215
US7810299 BB	20180220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAWORTH, INC., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:PNC BANK, NATIONAL ASSOCIATION; REEL/FRAME:044977/0602 EFFECTIVE DATE : 20180215
US7810299 BB	20180220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GLOBAL INTEGRATED FLOORING SOLUTIONS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAWORTH, INC.; REEL/FRAME:044980/0555 EFFECTIVE DATE : 20180215
US7810299 BB	20180220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GARRISON LOAN AGENCY SERVICES LLC, NEW YORK OLDPARTY : SECURITY INTEREST; ASSIGNORS:CAMINO MODULAR SYSTEMS INC.; GLOBAL INTEGRATED FLOORING SOLUTIONS INC.; REEL/FRAME:044980/0480 EFFECTIVE DATE : 20180215
US7810299 BB	20180405	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7810299 BB	20280608	PEXP		Calculated Patent Term Expiry (PTA 188 days and a terminal disclaimer has been filed)	
US8002943 BB	20110823	LSGT	+	granted / extensions (spc, cpc, pte)	
US8002943 BB	20110803	LSGT	PAT1	Patented Case	
US8002943 BB	20140404	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PNC BANK, NATIONAL ASSOCIATION, AS

ADMINISTRATIVE
 OLD PARTY : COLLATERAL
 ASSIGNMENT OF PATENTS;
 ASSIGNOR:HAWORTH, INC.,
 HAWORTH, LTD. AND
 SUCCESSORS;
 REEL/FRA:032606/0875
 EFFECTIVE DATE : 20140403

US8002943 BB	20150211	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8002943 BB	20190415	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US8002943 BB	20190930	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US8002943 BB	20190930	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8002943 BB	20190930	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US8002943 BB	20191022	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190823
US8002943 BB	20300501	PEXP		Calculated Patent Term Expiry (PTA 709 days and a terminal disclaimer has been filed)	
WO09042229 A1	20090402	LSPB	+	published / reissued	
WO09042229 A1	20100330	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO09042229 A1	20101117	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 08833653 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: WORK PLATFORM FOR HIGH-BAY RACKING

Abstract: A work platform for arranging in any position in a bay (10) of a high-bay racking facility has a support structure (24) with the dimensions of a standard pallet. Fixed on this support structure (24) is a preferably adjustable, walkable floor. In this way, a secure, comfortable standing surface is created for working in any part of a high-bay racking facility.

Classifications:

International (IPC 8-9): B65G1/02 B65G1/04

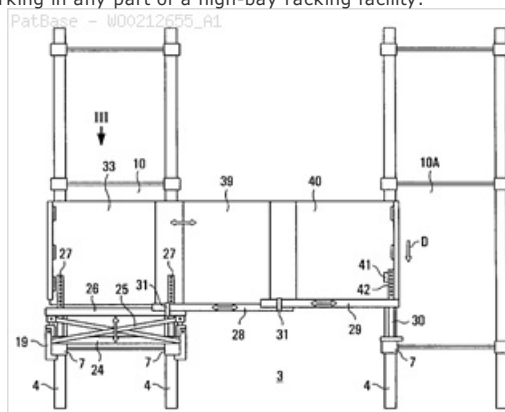
E04G1/22 (Advanced/Invention);

B65G1/02 B65G1/04 E04G1/18 (Core/Invention)

International (IPC 1-7): B65G1/04 B66F7/06 B66F9/07 E04G1/22

CPC: B66F9/07 B65G1/02

European: B65G1/02



Family:

Publication number	Publication date	Application number	Application date
AT283407 E	20041215	AT20010956379T	20010726
DE10038666 C1	20020124	DE20001038666	20000808
DE50104626 D1	20041230	DE20015004626	20010726
DK1307623 T3	20050329	DK20010956379T	20010726
EP1307623 A1	20030507	EP20010956379	20010726
EP1307623 B1	20041124	EP20010956379	20010726
ES2232651 T3	20050601	ES20010956379T	20010726
PT1307623 T	20050228	PT20010956379T	20010726
WO0212655 A1	20020214	WO2001DE02827	20010726

Priority:

DE20001038666 20000808

DE20015004626 20010726

WO2001DE02827 20010726

EP20010956379 20010726

Probable Assignee: SIEMENS AG

Assignee(s): (std): SIEMENS AG ; SIEMENS DEMATIC AG

Assignee(s): SIEMENS AKTIENGESELLSCHAFT

Inventor(s): (std): JUERGEN LEDERER ; LEDERER JURGEN ; LEDERER JUERGEN

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL NO PT SE TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT283407 E	20041215	LSGT	+	granted / extensions (spc, cpc, pte)	
AT283407 E	20100415	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT283407 E	20210726	PEXP		Calculated Patent Term Expiry	
DE10038666 C1	20020124	LSGT	+	granted / extensions (spc, cpc, pte)	
DE10038666 C1	20020124	LSPB	+8100	PUBLICATION OF THE EXAMINED APPLICATION WITHOUT PUBLICATION OF UNEXAMINED APPLICATION	
DE10038666 C1	20020124	LSGT	+D1	GRANT (NO UNEXAMINED APPLICATION PUBLISHED) PATENT LAW 81	
DE10038666 C1	20020718	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE10038666 C1	20071206	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : DEMATIC GMBH & CO. KG, 63073 OFFENBACH, DE
DE10038666 C1	20100624	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	

DE10038666 C1	20200808	PEXP		Calculated Patent Term Expiry	
DE50104626 D1	20051222	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE50104626 D1	20071206	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : DEMATIC GMBH & CO. KG, 63073 OFFENBACH, DE
DE50104626 D1	20100520	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DK1307623 T3	20050329	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1307623 T3	20210726	PEXP		Calculated Patent Term Expiry	
EP1307623 A1	20030507	LSPB	+	published / reissued	
EP1307623 A1	20030507	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030108
EP1307623 A1	20031210	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20031027
EP1307623 B1	20041124	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP1307623 B1	20041124	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20041124
EP1307623 B1	20041124	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D TEXT : NOT ENGLISH
EP1307623 B1	20041130	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1307623 B1	20041230	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D TEXT : GERMAN
EP1307623 B1	20050224	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20050224
EP1307623 B1	20050601	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2232651 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1307623 B1	20050629	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FD4D
EP1307623 B1	20050726	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050726
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				EPO]	THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20050726
EP1307623 B1	20050731	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 : 20050731
EP1307623 B1	20051116	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20050825
EP1307623 B1	20060607	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20060607 YEAR OF FEE PAYMENT : 6
EP1307623 B1	20081031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20080715 YEAR OF FEE PAYMENT : 8
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EP1307623 B1	20090831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20090624 YEAR OF FEE PAYMENT : 9
EP1307623 B1	20090930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20041124
EP1307623 B1	20100131	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : *SIEMENS A.G. EFFECTIVE DATE : 20090731

EP1307623 B1	20100226	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1307623 B1	20100308	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP
EP1307623 B1	20100316	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	REF COUNTRY CODE : EP
EP1307623 B1	20100324	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20090726
EP1307623 B1	20100401	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20100201
EP1307623 B1	20100423	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20100331
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EP1307623 B1	20100630	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20090726
EP1307623 B1	20100630	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 : 20090731
EP1307623 B1	20100630	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20100202
EP1307623 B1	20100730	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20090731
EP1307623 B1	20100928	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20090727
EP1307623 B1	20101029	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 : 20090727
EP1307623 B1	20110202	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PT REF LEGAL EVENT CODE : MM4A TEXT : LAPSE DUE TO NON-

					PAYMENT OF FEES EFFECTIVE DATE : 20110126
EP1307623 B1	20110331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090726
EP1307623 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110126
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EP1307623 B1	20120928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20100201
EP1307623 B1	20210726	PEXP		Calculated Patent Term Expiry	
ES2232651 T3	20050601	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2232651 T3	20210726	PEXP		Calculated Patent Term Expiry	
PT1307623 T	20050228	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1307623 T	20210726	PEXP		Calculated Patent Term Expiry	
WO0212655 A1	20020214	LSPB	+	published / reissued	
WO0212655 A1	20030108	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001956379 COUNTRY OF REF DOCUMENT : EP
WO0212655 A1	20030507	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001956379 COUNTRY OF REF DOCUMENT : EP
WO0212655 A1	20041124	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001956379 COUNTRY OF REF DOCUMENT : EP

Title: SAFETY HANDRAIL FOR CONSTRUCTION WORK.

Abstract: Safety handrail for construction work which is constituted by a first part formed by two **posts**, linked by a series of perpendicular tubular elements to the same and a second part formed by a third **post** and a series of tubular elements, of smaller diameter than the previous ones, in which they can be fitted **telescopically**, the **post** of this second part and one of the **posts** of the first part having lower extensions to allow the anchoring of the handrail in the corresponding supports. Both the **posts** and the anchoring supports have means capable of limiting both the telescopic displacement between the two parts, and between the handrail and the supports.

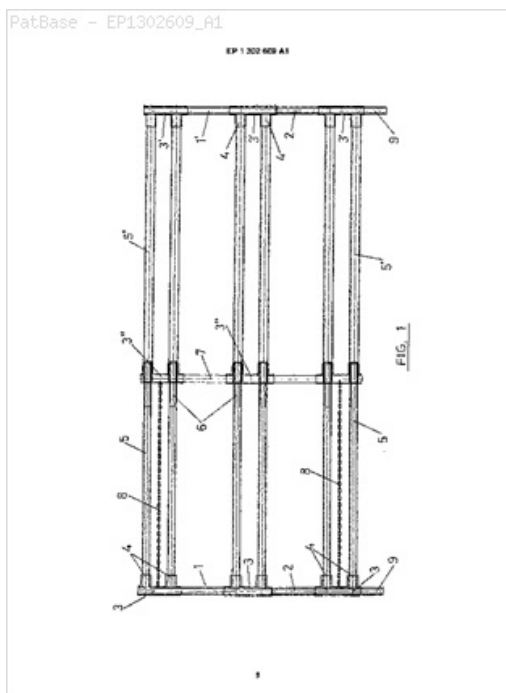
Classifications:

International (IPC 8-9): E04G21/32 (Advanced/Invention);
E04G21/32 (Core/Invention)

International (IPC 1-7): E04G1/26 E04G21/32

CPC: E04G21/3223 A61K31/155 A61K31/4166 C07C279/12
C07D233/76 C07K1/047 C07K5/00

European: A61K31/155 A61K31/4166 C07C279/12 C07D233/76
C07K1/04C C07K5/00 E04G21/32B6



Family:

Publication number	Publication date	Application number	Application date
EP1302609 A1	20030416	EP20020380200	20020924
ES1050367 UA	20020401	ES20010002379U	20010927
ES1050367 Y1	20020716	ES20010002379U	20010927
ES1050367 YA	20020716	ES20010002379U	20010927

Priority:

ES20010002379U 20010927

Probable Assignee: RODRIGUEZ GONZALEZ LUIS

Assignee(s): (std): RODRIGUEZ GONZALEZ LUIS

Inventor(s): (std): RODRIGUEZ GONZALEZ LUIS

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

Legal status (INPADOC)

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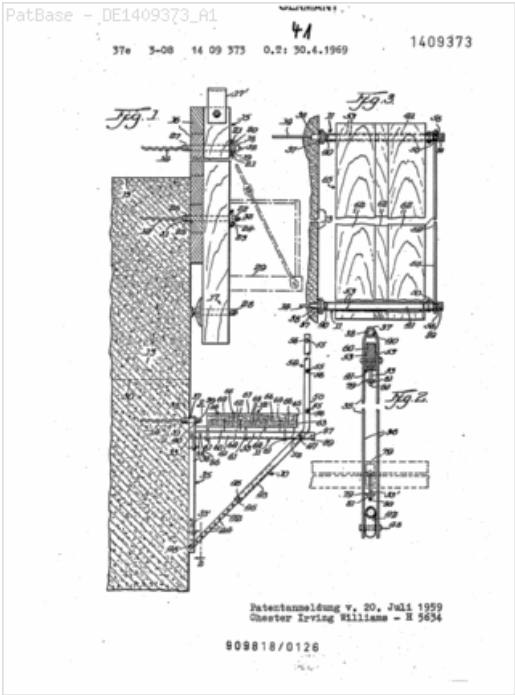
Patent	Date recorded	Event group	Code	Event	Details
EP1302609 A1	20030416	LSPB	+	published / reissued	
EP1302609 A1	20040107	LSFE	+AKX	DESIGNATION FEES PAID	
EP1302609 A1	20040728	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20031017
ES1050367 UA	20020401	LSPB	+	published / reissued	
ES1050367 Y1	20020716	LSGT	+	granted / extensions (spc, cpc, pte)	
ES1050367 Y1	20091221	LSLE	-FD1K	UTILITY MODEL LAPSED	EFFECTIVE DATE : 20060928
ES1050367 Y1	20110927	PEXP		Calculated Patent Term Expiry	
ES1050367 YA	20020716	LSGT	+	granted / extensions (spc, cpc, pte)	
ES1050367 YA	20110927	PEXP		Calculated Patent Term Expiry	

Title: EINSTELLBARES TELESKOPGERUEST ADJUSTABLE TELESKOPGERUEST (Machine translation)

Abstract: Source: DE1409373A1 [DE] (Claim 1) 1 @@= Einstellbares Teleskopgeruest mit Auslegern fue,r Betonwaende! Daemme o:dgl. _ 3nit gewellten Verankerungen, die. an. ihrem aeusseren Ende Gewinde tragen, dadurch gekennzeichnet, dal3 gUer Ausleger eigen horizontalen Teil, einen vertikalen Teil ure eine teleskopartige Diagonalstrebe besitzt, die wirksam miteinander verbunden sind und dass eine abnehmbare Befestigungs Vorriohtung zum Anbringen- eines jeden Auslegers an dem mit Ge de versehenen Ende der gewellten Verankerung in der Beton.. wand dient wobei die vertikalen Teile eines jeden-Auslegere an der. Aussenflaeche der Betonwand anliegen.

Machine translation: (claim 1) = 1 @ @ Adjustable Teleskopgeruest fue with outriggers, r concrete walls! Dams o: etc. _ 3nit corrugated anchorages. at. its outer end threaded wear, characterized in dal3 guer boom intrinsically horizontal portion, a vertical partial acid a telescoping diagonal strut possesses, which are effectively connected together and that a removable fastening Vorriohtung for attachment-of each cantilever on which is provided with Ge de end of the corrugated anchored in the concrete.. wherein the vertical wall was part of every-Auslegere on. Aussenflaeche rest against the concrete wall.

Classifications:
International (IPC 8-9): E04G5/06 (Advanced/Invention); E04G5/00 (Core/Invention)
International (IPC 1-7): E04G3/08
CPC: E04G5/062 E04G5/06
European: E04G5/06



Family:

Publication number	Publication date	Application number	Application date
DE1409373 A1	19690430	DE19591409373	19590720

Priority:
DE1959W026048 19590720

Probable Assignee: WILLIAMS CHESTER IRVING
Assignee(s): (std): WILLIAMS CHESTER IRVING
Inventor(s): (std): IRVING WILLIAMS CHESTER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE1409373 A1	19690430	LSPB	+	published / reissued	

Title: SOCKET FOR A CONCRETE VAULT

Abstract: The present invention relates to a socket, intended to be cast integral with a concrete vault, said socket primarily being intended for the mounting of a **post** of a guard rail, said socket comprising a tubular base unit (1") and an extension tube (9"). Known sockets of the type defined above have problems arising from the gathering of water in said sockets, said water freezing at cold weather. This results in difficulties to loosen **posts** that are mounted in the sockets. In connection with warmer weather the gathered water may also give rise to damages in the concrete vault resulting from moisture. It is significant for the socket according to the present invention that one end of the tubular base unit (1") is intended to be located adjacent a shutter trestle (12) or a bottom slab of a slab floor structure, the concrete vault (11) being cast on the shutter trestle (12)/ the bottom slab, that the base unit (1") has means (7") to support a free end of the **post**, and that the socket, at said end of the base unit (1"), comprises a means (10") that is penetrable and remains in the concrete vault (11).

Classifications:

International (IPC 8-9): E04F11/18 E04G15/06

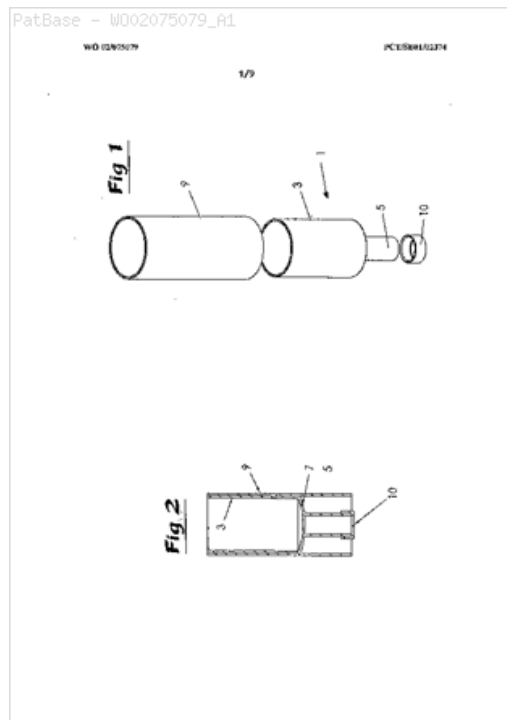
E04G21/18 (Advanced/Invention);

E04F11/18 E04G15/00 E04G21/18 (Core/Invention)

International (IPC 1-7): E04G21/32

CPC: E04F11/1812 E04G21/185 E04G15/061

European: E04F11/18A1 E04G15/06B E04G21/18C2



Family:

Publication number	Publication date	Application number	Application date
AU2002211177 AA	20021003	AU20020211177	20011030
SE200003982 A	20020914	SE20000003982D	20001101
SE200003982 A0	20001101	SE20000003982	20001101
SE200003982 L	20020914	SE20000003982	20001101
SE518680 C2	20021105	SE20000003982	20001101
WO02075079 A1	20020926	WO2001SE02374	20011030

Priority:

SE20000003982 20001101 SE20000003982 20010313 WO2001SE02374 20011030

Probable Assignee: HANS LINUS

Assignee(s): (std): HANS LINUS ; LINUS HANS

Inventor(s): (std): LINUS HANS

Inventor(s): HANS LINUS

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 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

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Patent	Date recorded	Event group	Code	Event	Details
AU2002211177 AA	20021003	LSPB	+	published / reissued	
SE200003982 A	20020914	LSPB	+	published / reissued	
SE518680 C2	20021105	LSGT	+	granted / extensions (spc, cpc, pte)	
SE518680 C2	20051101	LSLE	-NUG	PATENT HAS LAPSED	
SE518680 C2	20201101	PEXP		Calculated Patent Term Expiry	
WO02075079 A1	20020926	LSPB	+	published / reissued	
WO02075079 A1	20040129	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE

					REF LEGAL EVENT CODE : 8642
WO02075079 A1	20040506	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO02075079 A1	20050914	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP

Title: TRUCK MIXER PUMP COMPRISING A SUPPORTING DEVICE

Abstract: The invention relates to a truck mixer pump (10) comprising a vehicle chassis (14) and a vehicle body located on the vehicle chassis, said body having: a body frame (16) and a boom pedestal (22) mounted thereon for a material placing boom (26); a mixer drum (24) with a front and a rear drum support (18, 20), when viewed in the direction of travel; and a drive unit for the mixer drum (24), said unit having a motor and a transmission. To allow the pump to be supported safely whilst achieving a weight reduction, according to the invention a supporting device (30) for supporting the truck mixer pump (10) on the ground is proposed, which device is integrated into the rear drum support (20).

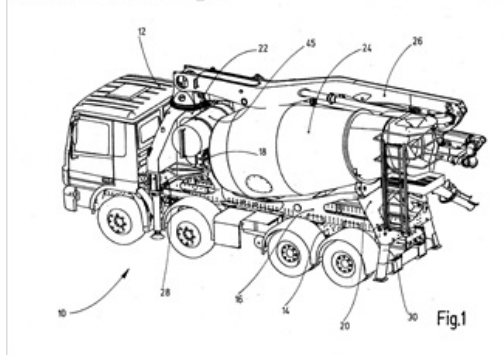
Classifications:**International (IPC 8-9):** B28C5/42 B60P3/16

E04G21/04 (Advanced/Invention);

E04G21/04 (Advanced/Non-invention)

CPC: B28C5/4265 E04G21/0436 E04G21/0445

PatBase - WO15197577_R1

**Family:**

Publication number	Publication date	Application number	Application date
DE102014211997 A1	20151224	DE201410211997	20140623
DE502015005310 D1	20180830	DE201550005310T	20150623
EP3157721 A1	20170426	EP20150732209	20150623
EP3157721 B1	20180801	EP20150732209	20150623
TR201812876 T4	20180921	TR20180012876T	20150623
WO15197577 A1	20151230	WO2015EP64040	20150623

Priority:

DE201410211997 20140623 EP20150732209 20150623 WO2015EP64040 20150623

Probable Assignee: PUTZMEISTER ENGINEERING GMBH**Assignee(s):** (std): PUTZMEISTER ENG GMBH ; PUTZMEISTER ENGINEERING GMBH**Inventor(s):** (std): BENZ ANDREAS ; HOSS GUIDO ; BRAUN MATTHIAS ; BRAUN MATTHIAS SEBASTIAN ; WESTERMANN KARL**Inventor(s):** MATTHIAS SEBASTIAN BRAUN ; KARL WESTERMANN ; ANDREAS BENZ ; GUIDO HOSS**Agent(s):** PFIZ GAUSS PATENTANWALTE PARTMBB; PFIZ THOMAS; AYLIN SENER; WOLF ECKHARD 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 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
DE102014211997 A1	20151224	LSPB	+	published / reissued	
DE102014211997 A1	20170103	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
EP3157721 A1	20170426	LSPB	+	published / reissued	
EP3157721 A1	20170426	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20170120
EP3157721 A1	20180404	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20180307
EP3157721 B1	20180801	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP3157721 B1	20180815	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP

EP3157721 B1	20180815	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 1023765 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20180815
EP3157721 B1	20180822	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D TEXT : LANGUAGE OF EP DOCUMENT: GERMAN
EP3157721 B1	20180830	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502015005310 COUNTRY OF REF DOCUMENT : DE
EP3157721 B1	20181227	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
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EP3157721 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20181101
EP3157721 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20181101
EP3157721 B1	20190131	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20181102
EP3157721 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180801
EP3157721 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180801

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EP3157721 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180801
EP3157721 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180801
EP3157721 B1	20190228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180801
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EP3157721 B1	20190228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180801
EP3157721 B1	20190430	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180801
EP3157721 B1	20190430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180801
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EP3157721 B1	20190531	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 : 20180801
EP3157721 B1	20190531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180801
EP3157721 B1	20190710	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20190503
EP3157721 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20190625 YEAR OF FEE PAYMENT : 5
EP3157721 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20190622 YEAR OF FEE PAYMENT : 5
EP3157721 B1	20190830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180801
EP3157721 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20190620 YEAR OF FEE PAYMENT : 5
EP3157721 B1	20350623	PEXP		Calculated Patent Term Expiry	
TR201812876 T4	20180921	LSGT	+	granted / extensions (spc, cpc, pte)	
TR201812876 T4	20350623	PEXP		Calculated Patent Term Expiry	
WO15197577 A1	20151230	LSPB	+	published / reissued	
WO15197577 A1	20161223	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO15197577 A1	20170120	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2015732209 COUNTRY OF REF DOCUMENT : EP

Title: Spacer for tension member

Abstract: A tendon for use in prestressed concrete is made up of a plurality of individual elements such as strands of steel wire arranged in a uniform array around and spaced radially outwardly from a center point. A spacer for the tendon includes a star-shaped base formed by arms extending radially outwardly from a central part. The central part and the arms define triangularly shaped openings for receiving one or a number of the tension elements. An intermediate part is positionable within the triangularly shaped openings for separating the elements located within the opening. The intermediate parts have a radially extending web and a flange extending transversely of the web for dividing the opening into separate spaces for each tension element. During assembly, the base is inserted into the tension member for separating the tension element and then the intermediate parts are inserted for spacing the elements from one another. The spacers are intended for use at a change in direction point of the tension member and initially are assembled at a position spaced from the change in direction point and then are moved to the point.

Classifications:

International (ipc 8-9): B28B21/62 B28B23/08 E01D11/04 E01D19/14 E01D19/16 E01D2/04 E04C5/08 E04C5/12 E04G21/12 (Advanced/Invention); E01D11/00 E01D19/00 E01D2/00 E04C5/00 E04C5/12 E04G21/12 (Core/Invention)

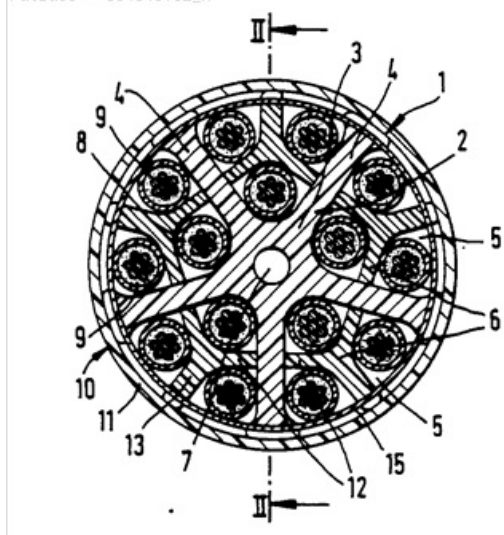
International (ipc 1-7): B28B21/60 B28B21/62 B28B23/04 B28B23/08 E01D11/00 E04B1/22 E04B1/64 E04C3/10 E04C5/08 E04C5/10 E04C5/12 E04C5/16 E04G21/12

CPC: E01D19/14 E01D19/16 E01D2101/28 E04C5/122 E01D11/04 E04C5/08 E04C5/12 E01D2/04

European: E01D11/04 E01D19/14 E01D19/16 E01D2/04 E04C5/08 E04C5/12 E04C5/12B P01D101/28

US: 52/223.13 52/223.14 52/230 52/687

PatBase - US4848052_A



Family:

Publication number	Publication date	Application number	Application date
CA1300354 A1	19920512	CA19880561229	19880311
CA1300855 A1	19920519	CA19880561230	19880311
CH676617 A	19910215	CH19880000822	19880303
CH677515 A	19910531	CH19880000821	19880303
DE3734953 A1	19880317	DE19873734953	19871015
DE3734953 C2	19940224	DE19873734953	19871015
DE3734954 A1	19880407	DE19873734954	19871015
DE3734954 C2	19920709	DE19873734954	19871015
DE3801451 A1	19890803	DE19883801451	19880120
DE3801451 C2	19940929	DE19883801451	19880120
DE8716677 U1	19880324	DE19870016677U	19871015
DE8716679 U1	19880324	DE19870016679U	19871218
IT1219102 A	19900503	IT19880067207	19880311
IT1219103 A	19900503	IT19880067208	19880311
IT8852969 U0	19880311	IT19880052969U	19880311
IT8852970 U0	19880311	IT19880052970U	19880311
IT8867207 A0	19880311	IT19880067207	19880311
IT8867208 A0	19880311	IT19880067208	19880311
JP2043064 C3	19960409	JP19880056452	19880311
JP2102453 C3	19961022	JP19880056451	19880311
JP63233149 A2	19880928	JP19880056451	19880311
JP63236849 A2	19881003	JP19880056452	19880311
JP7076473 B4	19950816	JP19880056452	19880311
JP8006400 B4	19960124	JP19880056451	19880311
US4848052 A	19890718	US19880167393	19880314
US4878327 A	19891107	US19880167631	19880314

Priority:

DE19873708067 19870313 DE19873734953 19871015 DE19873734954 19871015
DE19883801451 19880120 CA19880561230 19880311

Probable Assignee: DYWIDAG SYSTEMS INT GMBH

Assignee(s): (std): DYCKERHOFF AND WIDMANN AKTIENGESELLSCHAFT ; DYCKERHOFF U WIDMANN AG ; DYCKERHOFF AND WIDMANN AG

Assignee(s): DYCKERHOFF AND WIDMANN AG 8000 MUENCHEN DE ; DYCKERHOFF AND WIDMANN AG 81902 MUENCHEN DE ; DYWIDAG SYSTEMS INT ; DYCKERHOFF AND WIDMANN 8000 MUENCHEN DE AG ; DYCKERHOFF UND WIDMANN AKTIENGESELLSCHAFT ; DYCKERHOFF UND WIDMANN AKTIENGESELLSCHAF ; DYWIDAG SYSTEMS INT GMBH ; JUNGWIRTH DIETER ; NUTZEL OSWALD ; WALTER BAU AG ; ZIMMERMANN EGBERT

Inventor(s): (std): ZIMMERMANN OSWALD NUTZEL EGBERT ; JUNGWIRTH DIETER ; NUTZEL OSWALD ; ZIMMERMANN EGBERT ; ERFINDER HAT AUF NENNUNG VERZICHT ; EGUBERUTO TSUIMERUMAN ; ERFINDER HAT AUF NENNUNG VERZICHTET ; DEIITERU YUNGUITRUTO ; OSUJARUTO NIYUTSUTSUERU ; DIETER JUNGWIRTH ; OSWALD NUTZEL EGBERT ZIMMERMANN ; NUETZEL OSWALD

Inventor(s): OSWALD NUTZEL EGBERT ZIMMERMANN ; OSWALD NUTZEL ; VERZICHT DES ERFINDERS AUF

NENNUNG

Agent(s):

FETHERSTONHAUGH AND CO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA1300354 A1	19920512	LSGT	+	granted / extensions (spc, cpc, pte)	
CA1300354 A1	19941112	LSLE	-MKLA	LAPSED	
CA1300354 A1	20090512	PEXP		Calculated Patent Term Expiry	
CA1300855 A1	19920519	LSGT	+	granted / extensions (spc, cpc, pte)	
CA1300855 A1	20070522	LSLE	-MKLA	LAPSED	
CA1300855 A1	20090519	PEXP		Calculated Patent Term Expiry	
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CH676617 A	20061115	LSLE	-PL	PATENT CEASED	
CH676617 A	20080303	PEXP		Calculated Patent Term Expiry	
CH677515 A	19910531	LSGT	+	granted / extensions (spc, cpc, pte)	
CH677515 A	20021115	LSLE	-PL	PATENT CEASED	
CH677515 A	20080303	PEXP		Calculated Patent Term Expiry	
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DE3734953 A1	19880317	LSPB	+OAV	APPLICANT AGREED TO THE PUBLICATION OF THE UNEXAMINED APPLICATION AS TO PARAGRAPH 31 LIT. 2 Z1	
DE3734953 A1	19880317	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE3734953 C2	19940224	LSGT	+	granted / extensions (spc, cpc, pte)	
DE3734953 C2	19940224	LSGT	+D2	GRANT AFTER EXAMINATION	
DE3734953 C2	19940818	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE3734953 C2	20030327	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : WALTER BAU-AG, 86153 AUGSBURG, DE
DE3734954 A1	19880407	LSPB	+	published / reissued	
DE3734954 A1	19880407	LSPB	+OAV	APPLICANT AGREED TO THE PUBLICATION OF THE UNEXAMINED APPLICATION AS TO PARAGRAPH 31 LIT. 2 Z1	
DE3734954 A1	19880407	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE3734954 C2	19920709	LSGT	+	granted / extensions (spc, cpc, pte)	
DE3734954 C2	19920709	LSGT	+D2	GRANT AFTER EXAMINATION	
DE3734954 C2	19930114	LSGT	+8364	NO OPPOSITION	

				DURING TERM OF OPPOSITION	
DE3734954 C2	20030327	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : WALTER BAU-AG, 86153 AUGSBURG, DE
DE3734954 C2	20030904	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : DYWIDAG-SYSTEMS INTERNATIONAL GMBH, 81829 MÜNCHEN,
DE3734954 C2	20060817	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE3801451 A1	19890803	LSPB	+	published / reissued	
DE3801451 A1	19890803	LSSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE3801451 C2	19940929	LSGT	+	granted / extensions (spc, cpc, pte)	
DE3801451 C2	19940929	LSGT	+D2	GRANT AFTER EXAMINATION	
DE3801451 C2	19950309	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE3801451 C2	19960814	LSRE	+8368	OPPOSITION REFUSED DUE TO INADMISSIBILITY	
DE3801451 C2	20030327	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : WALTER BAU-AG, 86153 AUGSBURG, DE
DE3801451 C2	20030904	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : DYWIDAG-SYSTEMS INTERNATIONAL GMBH, 81829 MÜNCHEN,
DE3801451 C2	20051117	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
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DE8716677 U1	19971015	PEXP		Calculated Patent Term Expiry	
DE8716679 U1	19880324	LSGT	+	granted / extensions (spc, cpc, pte)	
DE8716679 U1	19971218	PEXP		Calculated Patent Term Expiry	
IT1219102 A	19900503	LSGT	+	granted / extensions (spc, cpc, pte)	
IT1219102 A	19991027	LSFE	TA	FEE PAYMENT DATE (SITUATION AS OF EVENT DATE), DATA COLLECTED SINCE 19931001	EFFECTIVE DATE : 19970415
IT1219102 A	20080311	PEXP		Calculated Patent Term Expiry	
IT1219103 A	19900503	LSGT	+	granted / extensions (spc, cpc, pte)	
IT1219103 A	20080311	PEXP		Calculated Patent Term Expiry	
JP2043064 C3	19960409	LSGT	+	granted / extensions (spc, cpc, pte)	
JP2043064 C3	20080311	PEXP		Calculated Patent Term Expiry	
JP2102453 C3	19961022	LSGT	+	granted / extensions (spc, cpc, pte)	
JP2102453 C3	20080311	PEXP		Calculated Patent Term Expiry	
JP63233149 A2	19880928	LSPB	+	published / reissued	
JP63236849 A2	19881003	LSPB	+	published / reissued	
JP7076473 B4	19950816	LSPB	+	published / reissued	
JP7076473 B4	20040803	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP7076473 B4	20050802	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP7076473 B4	20060816	LSLE	-LAPS	CANCELLATION BECAUSE OF NO	

PAYMENT OF ANNUAL FEES					
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JP8006400 B4	20050124	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
US4848052 A	19890718	LSGT	+	granted / extensions (spc, cpc, pte)	
US4848052 A	19880314	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DYCKERHOFF & WIDMANN AKTIENGESELLSCHAFT, 8000 MUNC OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:NUTZEL, OSWALD; REEL/FRAME:004848/0549 EFFECTIVE DATE : 19880310
US4848052 A	19880314	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DYCKERHOFF & WIDMANN AKTIENGESELLSCHAFT,GERMANY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NUTZEL, OSWALD; REEL/FRAME:004848/0549 EFFECTIVE DATE : 19880310
US4848052 A	19890526	LSGT	PAT1	Patented Case	
US4848052 A	19930718	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4848052 A	19931005	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19930718
US4848052 A	20180130	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4848052 A	20180130	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US4878327 A	19891107	LSGT	+	granted / extensions (spc, cpc, pte)	
US4878327 A	19881121	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DYCKERHOFF & WIDMANN AKTIENGESELLSCHAFT, ERDINGER OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:NUTZEL, OSWALD; ZIMMERMANN, EGBERT; JUNGWIRTH, DIETER; REEL/FRAME:004977/0951 EFFECTIVE DATE : 19880314
US4878327 A	19881121	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DYCKERHOFF & WIDMANN AKTIENGESELLSCHAFT, GERMANY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:NUTZEL, OSWALD; ZIMMERMANN, EGBERT; JUNGWIRTH, DIETER; REEL/FRAME:004977/0951 EFFECTIVE DATE : 19880314
US4878327 A	19890912	LSGT	PAT1	Patented Case	
US4878327 A	19890912	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US4878327 A	19930419	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4878327 A	19970421	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4878327 A	20010418	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US4878327 A	20030505	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DYWIDAG-SYSTEMS INTERNATIONAL GMBH, GERMANY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BAU-AKTIENGESELLSCHAFT, WALTER; REEL/FRAME:014027/0331 EFFECTIVE DATE : 20030320

Title: Improved method and means for casting buildings

Abstract: 986,497. Shuttering for casting buildings. W. HERBERT. Oct. 4, 1961, No. 35746/61. Heading E1S. A building is cast on a collapsible former comprising two frames 1 hinged together at 1¹ and connected at their lower ends by ties 3 adjustable in length. The frames 1 each comprise two parallel curved members 1a joined by longitudinal members and covered with wire mesh c. Sacking, ceiling board and **reinforcement** for the concrete is laid on the former before casting. The former is located by pins 4 on the foundation 5. Window apertures and the edge of the building is moulded by hose pipe attached to the former.

Classifications:

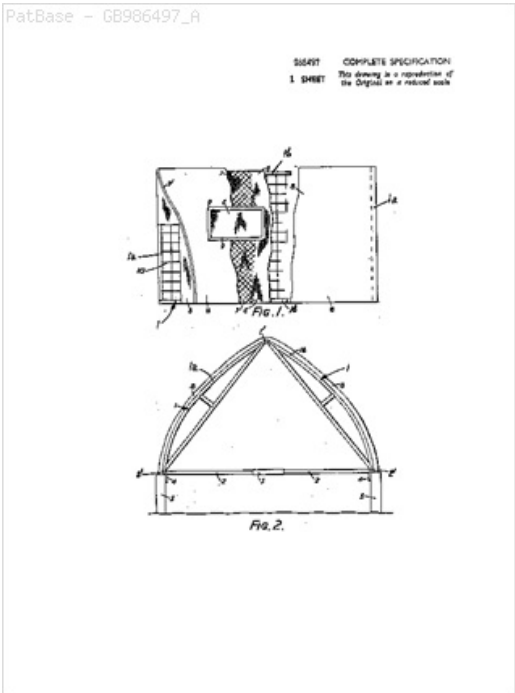
International (IPC 8-9): E04G11/06 (Advanced/Invention);

E04G11/00 (Core/Invention)

International (IPC 1-7): E04G11/06

CPC: E04G11/06

European: E04G11/06



Family:

Publication number	Publication date	Application number	Application date
GB986497 A	19650317	GB19610035746	19611004

Priority:

GB19610035746 19611004

Probable Assignee:

WALTER HERBERT

Assignee(s): (std):

WALTER HERBERT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB986497 A	19650317	LSGT	+	granted / extensions (spc, cpc, pte)	
GB986497 A	19811004	PEXP		Calculated Patent Term Expiry	

Title: Safety fence support for use during construction of multi-story building

Abstract: The inner walls (4) and floors (6) of buildings with cavity walls are constructed first, before the outer brickwork is added. During construction of the inner walls, tie-bar plates (20) are inserted to act as keys to the future outer wall. The safety fence support (50) has a hook (53) which fits into a hole through the protruding part (22) of the tie bar plate. Below the hook is a rod (54) and buffer (55) which keep the fence support vertical.

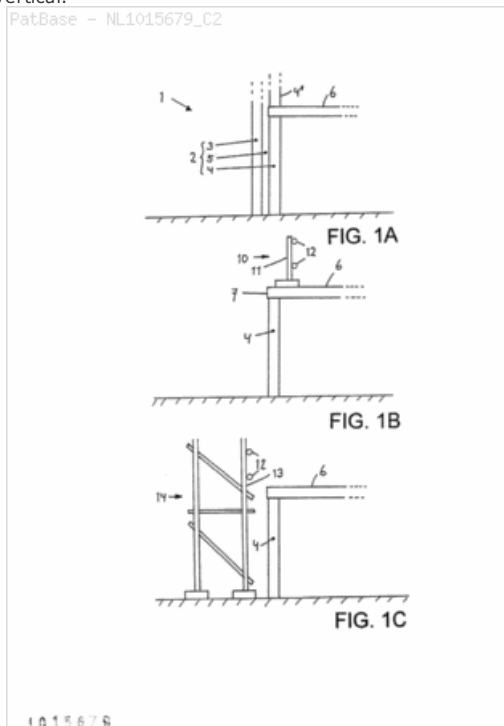
Classifications:

International (IPC 8-9): E04G21/32 (Advanced/Invention);
E04G21/32 (Core/Invention)

International (IPC 1-7): E04G21/32

CPC: E04G21/3219

European: E04G21/32B4



Family:

Publication number	Publication date	Application number	Application date
NL1015679 C2	20020114	NL20001015679	20000711

Priority:

NL20001015679 20000711

Probable Assignee: KLERX WILHELMUS MARIA ANTONIUS

Assignee(s): (std): KLERX WILHELMUS MARIA ANTONIUS ; WILHELMUS MARIA ANTONIUS KLERX

Inventor(s): (std): KLERX WILHELMUS MARIA ANTONIUS ; WILHELMUS MARIA ANTONIUS KLERX

Legal status (INPADOC)

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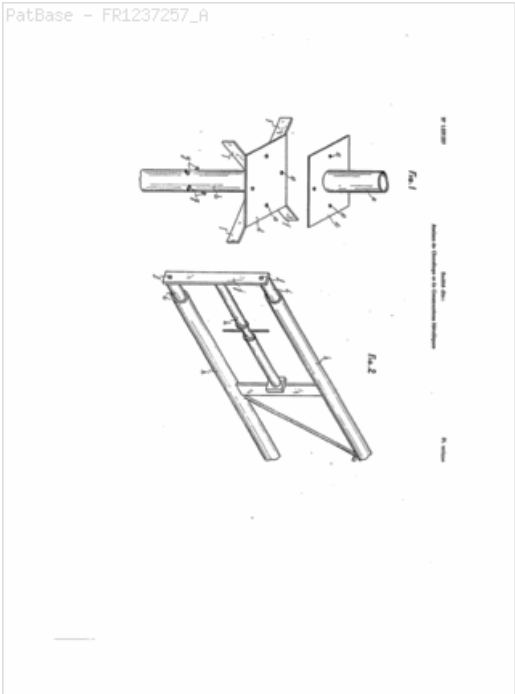
Patent	Date recorded	Event group	Code	Event	Details
NL1015679 C2	20020114	LSGT	+	granted / extensions (spc, cpc, pte)	
NL1015679 C2	20020301	LSSES	+PD2B	A SEARCH REPORT HAS BEEN DRAWN UP	
NL1015679 C2	20050401	LSLE	-VD1	LAPSED DUE TO NON-PAYMENT OF THE ANNUAL FEE	EFFECTIVE DATE : 20050201
NL1015679 C2	20200711	PEXP		Calculated Patent Term Expiry	

Title: PERFECTIONNEMENTS A LA CONSTRUCTION DE BATIMENTS A PLUSIEURS ETAGES IMPROVEMENTS TO THE CONSTRUCTION OF MULTISTAGE (Machine translation)

Abstract: Source: FR1237257A [FR] (Claim 1) 1) ou les tetons g sont constitues par les extremités de tiges traversant les poteaux. Dans l'exemple represente (fig.

Machine translation: (Claim 1) 1) or g Tetons are constituted by the ends of rods passing through the poles. In the example represented (Fig.

Classifications:
International (IPC 8-9): E04G11/56 (Advanced/Invention);
E04G11/00 (Core/Invention)
International (IPC 1-7): E04C3/32 E04G11/56
CPC: E04G11/56
European: E04G11/56



Family:

Publication number	Publication date	Application number	Application date
FR1237257 A	19600729	FR19590797769	19590617

Priority:

FR19590797769 19590617

Probable Assignee: CHAUFFAGE ET DE CONST METALLIQ

Assignee(s): (std): CHAUFFAGE ET DE CONST METALLIQ

Assignee(s): ATELIERS DE CHAUFFAGE ET DE CONSTRUCTIONS METALLIQ ; ATELIERS DE CHAUFFAGE ET DE CONSTRUCTIONS METALLIQUES

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR1237257 A	19600729	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1237257 A	19790617	PEXP		Calculated Patent Term Expiry	

Title: APPARATUS AND METHOD FOR MOUNTING A **post** TO AN ELONGATE BEAM AND A CLAMP FOR SECURING TUBULAR RAILS

Abstract: The present invention relates to a bracket (10) for mounting a **post** to an elongate beam (12) for the purposes of mounting a safety barrier to a raised platform such as a roof. The beam has upper and lower faces (14) and (16) respectively and first and second sides (18) and (20) respectively. The bracket includes an upper engaging member (22) adapted to engage the upper face (14) and a lower engaging member (24) adapted to engage the lower face 16. This engagement is primarily the means by which the bracket is secured to the beam. The bracket (10) also includes a spacing member (26) adapted to connect and maintain a predetermined separation .9g. 10 between the upper engaging member (22) and the lower engaging member The predetermined separation corresponds at least to the height of the beam as a lesser separation would not allow the upper and lower engaging members to simultaneously engage the upper and lower faces of the beam. The bracket also includes mounting means (28) adapted to secure a generally upwardly extending **post** to the bracket 15 such that a downwardly directed force on the mounting means (28) induces a corresponding torque in the bracket (10) about a generally horizontal axis tending to increase engagement of the upper and lower members (22) and (24) with the respective upper and lower faces (14) and (16) of the beam. In some preferred embodiments the **post** is releasably secured to the mounting means.

Classifications:

International (IPC 8-9): E04G21/32 E04G23/03 F16B21/04 F16B7/04 F16B7/20 F16B9/02 (Advanced/Invention);

E04G21/32 E04G23/03 F16B21/00 F16B7/00 F16B7/04 F16B9/00 (Core/Invention)

International (IPC 1-7): E04G21/32 E04G23/03 E04G3/12 F16B21/04 F16B7/04 F16B7/20 F16B9/02

Family:

Publication number	Publication date	Application number	Application date
AU186798 A0	19980312	AU1998PP01867	19980217
AU199917360 A1	19990902	AU19990017360	19990217

Priority:

AU1998PP01867 19980217 AU19990017360 19990217

Probable Assignee:

CICOLINI P

Assignee(s): (std):

CICOLINI P ; CICOLINI PAUL

Assignee(s):

PAUL CICOLINI

Inventor(s): (std):

CICOLINI PAUL

Inventor(s):

PAUL CICOLINI

Agent(s):

PAUL CICOLINI

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
AU199917360 A1	19990902	LSPB	+	published / reissued	
AU199917360 A1	20030918	LSLE	-MK5	APPLICATION LAPSED SECTION 142(2)(E) - PATENT REQUEST AND COMPL. SPECIFICATION NOT ACCEPTED	

Title: WORK PLATFORM FOR LIFT SHAFT

Abstract: 1. A work platform for use in a lift shaft of the kind including an opening in a front wall having a substantially horizontal lower edge, and an opposing rear wall, said platform comprising at least one support member to span the shaft from said lower edge to an abutment point on the rear wall displaced upwardly from said lower edge, and a substantially horizontal deck mounted with said support member. 2. A work platform according to claim 1 having two spaced apart support members in the form of struts. 3. A work platform according to claim 2 wherein each strut has at one end a foot engagable with said lower edge and at the other end abutment means for bearing against said rear wall.

Classifications:

International (IPC 8-9): B66B11/00 B66B19/00 E04G1/15

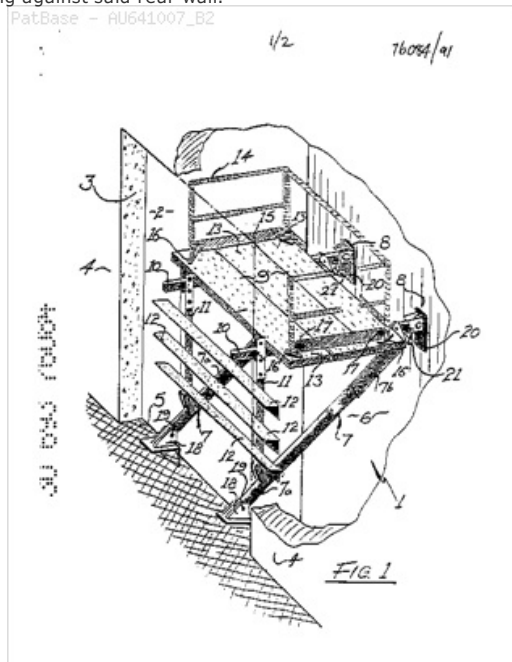
E04G1/36 (Advanced/Invention);

B66B11/00 B66B19/00 E04G1/00 E04G1/36 (Core/Invention)

International (IPC 1-7): B66B11/00 E04G1/15 E04G3/02 E21D7/00

CPC: E04G1/367 E04G1/36 B66B19/00

European: B66B19/00 E04G1/36

**Family:**

Publication number	Publication date	Application number	Application date
AU199176084 A1	19920102	AU19910076084	19910426
AU641007 B2	19930909	AU19910076084	19910426
AU7608491 A1	19920102	AU19910076084D	19910426
NZ235211 A	19930428	NZ19900235211	19900907

Priority:

AU19900000860 19900627 AU1990PK00860 19900627 NZ19900235211 19900907
 AU19910076084 19910426

Probable Assignee: OTIS ELEVATOR CO

Assignee(s): (std): OTIS ELEVATOR CO

Assignee(s): OTIS ELEVATOR COMPANY

Inventor(s): (std): BALLAND DIDIER ; BAULIEU DANIEL ; CHAPELAIN JEAN CLAUDE ; VRONTAS WILLIAMS ; ELLIS LEE RONALD ; VRONTAS WILLIAM

Inventor(s): DANIEL BAULIEU ; JEAN CLAUDE CHAPELAIN ; LEE RONALD ELLIS ; WILLIAM VRONTAS ; DIDIER BALLAND

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199176084 A1	19920102	LSPB	+	published / reissued	
AU641007 B2	19930909	LSGT	+	granted / extensions (spc, cpc, pte)	
AU641007 B2	20110426	PEXP		Calculated Patent Term Expiry	
AU7608491 A1	19920102	LSPB	+	published / reissued	
NZ235211 A	19930428	LSPB	+	published / reissued	

Title: WIRE MESH WORKING APPARATUS

Abstract: A reenforcing wire mesh placement apparatus is provided having a rotating spindle for placing a roll of tightly wound wire mesh for reenforcing concrete, or the like, and having a decontouring drum rotatably connected for unravelling the wire in a manner to decontour and flatten the rolled wire. A frame is provided which has lifting means for lifting the apparatus for the placement of wire mesh at various levels of a multi-levelled building during construction. A guard is also provided for flattening uneven spots in the wire mesh during the decontouring operation and the frame has several operable positions for working in different positions or for movement between locations. The frame can also be provided with wheels and can be power-actuated and may be connected to the work table for cutting and bending the wire mesh as desired. A power operated enlarged drum may also be added for holding the decontoured wire until ready for use or for rewinding the decontoured wire into an enlarged roll for ease in working therewith.

Classifications:

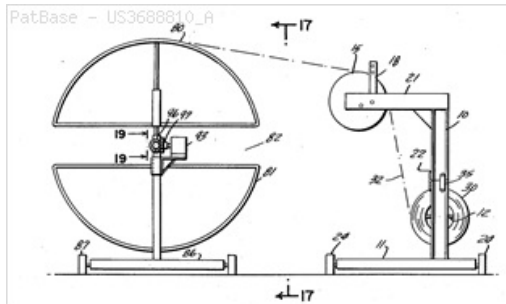
International (IPC 8-9): B21F33/00 E04G21/12 (Advanced/Invention); B21F33/00 E04G21/12 (Core/Invention)

International (IPC 1-7): B21F33/00 B28B23/02 E01C23/04 E04G21/12 E04G21/14

CPC: E04G21/169 B21F33/00 E04G21/12

European: B21F33/00 E04G21/12

US: 140/10.7 140/107 404/100 72/169 72/183

**Family:**

Publication number	Publication date	Application number	Application date
AR199384 A1	19740830	AR19720243584	19720814
AU197245556 A1	19740627	AU19720045556	19720814
AU207245556 A1	19740627	AU19720045556	19720814
AU452873 B2	19740827	AU19720045556	19720814
BE787535 A	19730214		00000000
BE787535 A1	19730214	BE19721004292	19720814
CA978446 A1	19751125	CA19720148585	19720802
DE2239465 A1	19730816	DE19722239465	19720810
DE2239465 B2	19750417	DE19722239465	19720810
DE2239465 C3	19751127	DE19722239465	19720810
JP48087631 A2	19731117	JP19720081390	19720814
US3688810 A	19720905		19700406
US3814144 A	19740604	US19720223190	19720203
ZA7205493 A	19730425	ZA19720005493	19720810

Priority:

US19700025970 19700406 US19720223190 19720203 AU19720045556 19720814

Probable Assignee: METROPOLITAN CHICAGO BAPTIST A

Assignee(s): (std): METROPOLITAN CHICAGO BAPTIST A ; OWEN C SPENCER

Assignee(s): SPENCER OWEN C ; METROPOLITAN CHICAGO BAPTIST ASS ; METROPOLITAN CHICAGO BAPTIST ASS SBC ; METROPOLITAN CHICAGO BAPTIST ASS US ; METROPOLITAN CHICAGO BAPTIST ASSOCIATION S B C ; METROPOLITAN CHICAGO BAPTIST ASSOCIATION S B C 2001 SOUTH 15TH AVENUE BROADVIEW ILLINOIS E U A ; METROPOLITAN CHICAGO BAPTIST ASSOCIATION S B C BROADVIEW ILL V ST A ; METROPOLITAN CHICAGO BAPTIST ASSOCIATION SBC

Inventor(s): (std): SPENCER O ; SPENCER O C ; SPENCER OWEN C

Inventor(s): SPENCER OWEN C BLUE ISLAND ILL V ST A ; O C SPENCER ; OC SPENCER ; OWEN C SPENCER ; SPENCER O US

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR199384 A1	19740830	LSGT	+	granted / extensions (spc, cpc, pte)	
AR199384 A1	19920814	PEXP		Calculated Patent Term Expiry	
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AU207245556 A1	19740627	LSPB	+	published / reissued	
AU452873 B2	19740827	LSGT	+	granted / extensions (spc, cpc, pte)	
BE787535 A	19730214	LSPB	+	published / reissued	
BE787535 A1	19730214	LSPB	+	published / reissued	
DE2239465 A1	19730816	LSPB	+	published / reissued	
DE2239465 B2	19750417	LSPB	+	published / reissued	
DE2239465 C3	19751127	LSGT	+	granted / extensions (spc, cpc, pte)	
DE2239465 C3	19751127	LSGT	+C3	GRANT AFTER TWO PUBLICATION STEPS (3RD PUBLICATION)	
JP48087631 A2	19731117	LSPB	+	published / reissued	

US3688810 A	19720905	LSGT	+	granted / extensions (spc, cpc, pte)
US3688810 A	19900406	PEXP		Calculated Patent Term Expiry
US3814144 A	19740604	LSGT	+	granted / extensions (spc, cpc, pte)
US3814144 A	19920203	PEXP		Calculated Patent Term Expiry
ZA7205493 A	19730425	LSGT	+	granted / extensions (spc, cpc, pte)
ZA7205493 A	19880809	PEXP		Calculated Patent Term Expiry

Title: **POST**-STRESSING OF REINFORCED CONCRETE STRUCTURES

Abstract: An apparatus for **post**-stressing cables of reinforced concrete structures, in which a template and a drift wedge are used in association with a bearing stool to retain clamping grips in registration with apertures in an anchor head and to assist in seating the grips in the apertures, when the strands of the cable are stressed by a center-hole jack.

Classifications:

International (IPC 8-9): E04C5/12 E04G21/12

F16G11/12 (Advanced/Invention);

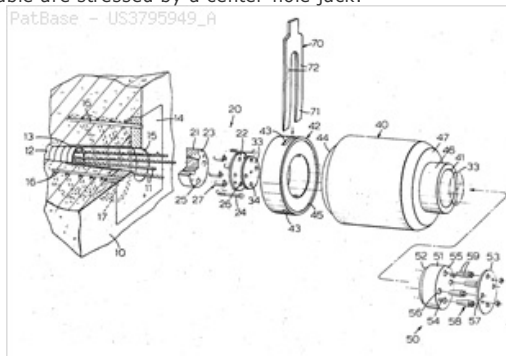
E04C5/12 E04G21/12 F16G11/00 (Core/Invention)

International (IPC 1-7): E04G21/12 F16G11/00

CPC: E04G21/121 E04C5/122 F16G11/12 Y10T24/39

European: E04C5/12B E04G21/12B F16G11/12

US: 24/11.5R 24/115R 52/223.13



Family:

Publication number	Publication date	Application number	Application date
CA973334 A1	19750826	CA19720155125	19721030
CA987476 A1	19760420		00000000
CA987476 A2	19760420	CA19750220196	19750214
GB1307513 A	19730221	GB19680060126	19681218
US3795949 A	19740312	US19710198912	19711115

Priority:

GB19680052611 19681106	GB19680060126 19681218	US19690873143 19691103
CA19710121387 19710826	US19710198912 19711115	CA19720155125 19721030
CA19750220196 19750214		

Probable Assignee: PRE STRESS PIONEERS LTD

Assignee(s): (std): PRE STRESS PIONEERS LTD

Assignee(s): PRE STRESS PIONEERS LTD CA ; SHORTER ROBERT W ; PRE STRESS PIONEERS LIMITED

Inventor(s): (std): SHORTER ROBERT W ; SHORTER R

Inventor(s): SHORTER R CA

Legal status (INPADOC)

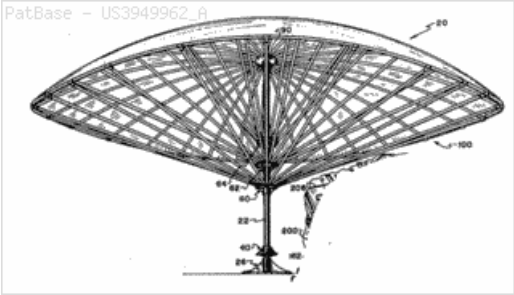
[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CA987476 A2	19760420	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1307513 A	19730221	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1307513 A	19730704	LSGT	+PS	PATENT SEALED	
GB1307513 A	19801029	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	
GB1307513 A	19881218	PEXP		Calculated Patent Term Expiry	
US3795949 A	19740312	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: COLLAPSIBLE UMBRELLA CONCRETE FORM

Abstract: A collapsible and reusable umbrella concrete form for casting a concrete shell roof in the form of a dome, the collapsible umbrella form comprising a central stem or column equipped with a base, a jack abutment plate for vertically adjusting the stem in respect to the base, the jack abutment plate being immediately above the base, a rib support connector at the top of the column, and a plurality of strut connectors slidably carried by the central portion of the column, each being axially displaceable along the column but keyed so as to be non-rotatable in respect to the column. The top connector of the column releasably receives the upper end of each rib support, each rib support being radially disposed outwardly and arcuately downwardly from said top column connector, the array of rib connectors in plan view giving the appearance of radial spokes, each equally angularly spaced from the next, and being connected one to the other by a plurality of ring members, one ring member defining the outer periphery of the form. Each rib support is held in the described arcuately depending disposition against collapse by three diagonal strut members bridging between an intermediate location along the rib support and one of the strut connectors. The degree of arc and the effective radius spanned by the rib supports may be varied within limits depending upon the relative position of the strut connectors along the length of the column. A suitable jack or like mechanism is used to position the strut connectors along the column and once said connectors are placed as desired, one or more pins may be used to retain that location. To compensate for changes in the circumference of the outer ring caused by displacement of the strut connectors a turnbuckle mechanism comprises part of the outer ring. Radial panels are flush with the top of the rib supports and span between the rib supports and the ring members over at least the distal one half of the array of ring and rib support members. These panels may be fabricated of any suitable material such as plywood to support concrete as it is placed and to leave an acceptable interior roof surface once the umbrella concrete form is removed by relaxing the rib support members as a result of lowering the strut connectors along the column. A sheet of fabric such as nylon is placed over the entire upper surface of the form and is installed in such a way as to become taut when the form is upwardly and outwardly flexed so that it not only supports concrete between the rib and ring members where no support panel exists but also leaves a suitable exposed roof surface once the form has been removed. Once assembled with the sheet of fabric across the top of the form, a thin layer of concrete is placed over the fabric and also upon precast concrete or like pre-existing structural columns disposed along the periphery of the form. The pre-existing structural columns support the concrete roof once it has set and cured and the form has been removed.

Classifications:
International (IPC 8-9): E04G11/36 (Advanced/Invention);
E04G11/00 (Core/Invention)
International (IPC 1-7): E04G11/36
CPC: E04G11/36
European: E04G11/36
US: 135/119 135/25.33 135/98 249/18 249/212 D3/5



Family:

Publication number	Publication date	Application number	Application date
US3949962 A	19760413	US19740508958	19740925

Priority:
US19740508958 19740925

Probable Assignee: WILSON ARNOLD
Assignee(s): (std): WILSON ARNOLD
Inventor(s): (std): WILSON ARNOLD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3949962 A	19760413	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: FORMWORK JIG

Abstract: A formwork jig (1) comprising a mounting member (2) and a formwork support member (3) which are interconnected by tie means (4), connections between ends of the tie means (4) and the respective members (2, 3) which connections maintain a mounting surface (6) of the mounting member (2) and a support surface (13) of the support member (3) in substantially parallel planes with said mounting member (2) in overlying relationship with a support surface (13) of the support member (3) and wherein said tie means (4) is linearly extensible and contractible and has associated retaining means (15, 16) to at least hold said mounting and support members (2, 3) in a predetermined spacial relationship and resist forces tending to move said mounting member (2) and said support member (3) apart.

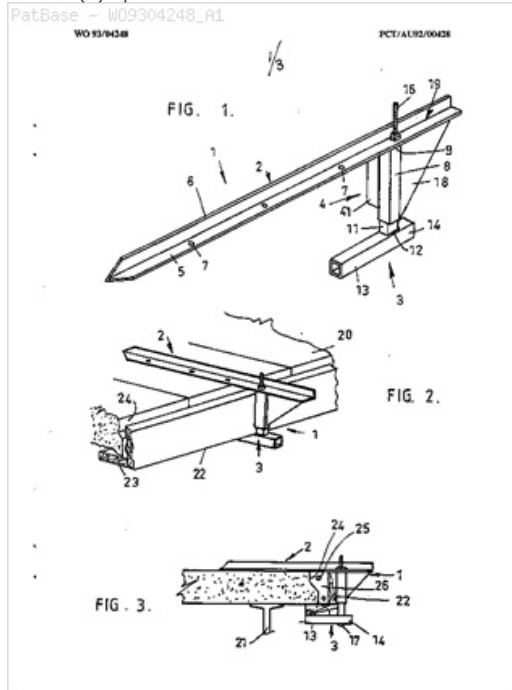
Classifications:

International (IPC 8-9): E04G11/36 E04G17/02
E04G17/04 (Advanced/Invention);
E04G11/00 E04G17/02 E04G17/04 (Core/Invention)

International (IPC 1-7): E04G17/02 E04G17/04

CPC: E04G11/365

European: E04G11/36A



Family:

Publication number	Publication date	Application number	Application date
AU199221045 A1	19930218	AU19920021045	19920812
WO9304248 A1	19930304	WO1992AU00428	19920812

Priority:

AU1991PK07711 19910812 AU19920021045 19920812

Probable Assignee: SATTler COLIN GRAHAM

Assignee(s): (std): SATTler COLIN GRAHAM

Assignee(s): COLIN GRAHAM SATTler

Inventor(s): (std): SATTler COLIN GRAHAM

Inventor(s): COLIN GRAHAM SATTler

Agent(s): ROBERT G HALLIDAY

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT LU MC NL SE US

Legal status (INPADOC)

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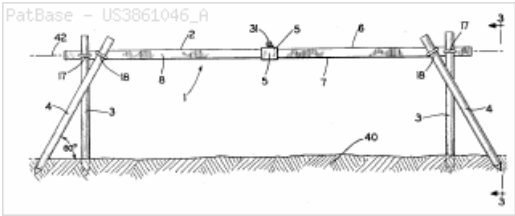
Patent	Date recorded	Event group	Code	Event	Details
AU199221045 A1	19930218	LSPB	+	published / reissued	
WO9304248 A1	19930304	LSPB	+	published / reissued	
WO9304248 A1	19940612	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : CA
WO9304248 A1	19940817	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: BATTER BOARD CONSTRUCTION

Abstract: A batter board having a horizontal tubular cross member adjustably supported at opposite ends by U-shaped brackets on a pair of vertical metal **posts** adapted to be driven into the ground. Angle braces are mounted on opposite ends of the cross member adjacent the vertical **posts** and extend outwardly downwardly in a direction generally along the longitudinal axis of the cross member to provide **reinforcement** for the cross member in a longitudinal direction. A slide member is **telescopically** mounted on the cross member and is provided with an upwardly vertically extending transit sight and construction line tie pin. A separate locking screw is provided on the slide member for clamping the slide member in adjusted position on the cross member.

Classifications:

International (IPC 8-9): E04G21/18 (Advanced/Invention);
E04G21/18 (Core/Invention)
International (IPC 1-7): E04G21/18
CPC: E04G21/1833
European: E04G21/18B6
US: 248/165 33/405 33/860



Family:

Publication number	Publication date	Application number	Application date
US3861046 A	19750121	US19740462803	19740422

Priority:

US19730359546 19730511 US19740462803 19740422

Probable Assignee: ARN KEVIN L
Assignee(s): (std): ARN KEVIN L
Inventor(s): (std): ARN KEVIN L

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3861046 A	19750121	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: PROTECTIVE CAP FOR REINFORCING STARTER BARS

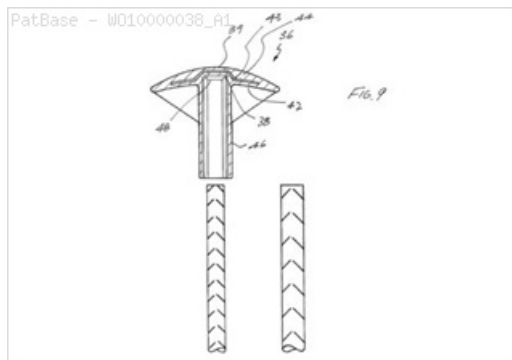
Abstract: A cap has a domed upper surface (17), a tubular stem section (18) and braces (19) extending from an underside (20) of the dome on to the tubular section (18). Moulded into the dome is a barrier plate (23) which in this case is a thin metal circular disc about 2mm thick. The plate (23) has an annular flange (24) and a central depression (25). The annular flange (24) is concave downwardly providing an internal metal barrier which is curved around its marginal edge forming the flange (24) and generally follows the curve of the dome.

Classifications:

International (IPC 8-9): B65D59/06 E04G21/24
E04G21/32 (Advanced/Invention);
B65D59/00 E04G21/24 E04G21/32 (Core/Invention)

CPC: E04C5/161 E04G21/32 E04G21/3252

European: E04C5/16A E04G21/32



Family:

Publication number	Publication date	Application number	Application date
AU2009202701 AA	20100121	AU20090202701	20090703
AU2009202701 BB	20160519	AU20090202701	20090703
GB201101136 A0	20110309	GB20110001136	20090703
GB2473794 A1	20110323	GB20110001136	20090703
GB2473794 B2	20120502	GB20110001136	20090703
NZ590597 A	20120525	NZ20090590597	20090703
WO10000038 A1	20100107	WO2009AU00865	20090703

Priority:

AU20080903435 20080704 AU20090202701 20090703 WO2009AU00865 20090703

Probable Assignee: UNDERWOOD COMPANIES HOLDINGS P

Assignee(s): (std): IRELAND BRUCE IAN ; UNDERWOOD COMPANIES HOLDINGS P ; UNDERWOOD DANIEL CHARLES ; ROGERS RYAN ; UNDERWOOD COMPANIES HOLDINGS PTY LTD ; ASH ALISTAIR ; ILLINOIS TOOL WORKS

Assignee(s): ILLINOIS TOOL WORKS INC

Inventor(s): (std): IRELAND BRUCE IAN ; ASH ALISTAIR ; UNDERWOOD DANIEL CHARLES ; ROGERS RYAN

Inventor(s): BRUCE IAN IRELAND ; ALISTAIR ASH ; RYAN ROGERS ; DANIEL CHARLES UNDERWOOD

Agent(s): INTELLEPRO; DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; INTELLEPRO ET AL

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2009202701 AA	20100121	LSPB	+	published / reissued	
AU2009202701 AA	20121011	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	PARTYTYPE : OWNER OWNER : ILLINOIS TOOL WORKS INC. OLDPARTY : FORMER APPLICANT(S): UNDERWOOD COMPANIES HOLDINGS PTY LTD
AU2009202701 BB	20160519	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2009202701 BB	20160915	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2009202701 BB	20290703	PEXP		Calculated Patent Term Expiry	
GB2473794 A1	20110323	LSPB	+	published / reissued	
GB2473794 B2	20120502	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2473794 B2	20140326	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20130703
GB2473794 B2	20290703	PEXP		Calculated Patent	

Term Expiry					
NZ590597 A	20120525	LSPB	+	published / reissued	
NZ590597 A	20120928	LSAS	ASS	CHANGE OF OWNERSHIP	PARTYTYPE : OWNER OWNER : ILLINOIS TOOL WORKS INC., US OLDPARTY : OLD OWNER(S): UNDERWOOD COMPANIES HOLDINGS PTY LTD
NZ590597 A	20120928	LSGT	+PSEA	PATENT SEALED	
NZ590597 A	20130830	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 03 JUL 2016 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20130726
NZ590597 A	20160624	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 03 JUL 2017 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20160618
NZ590597 A	20170630	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 03 JUL 2018 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20170620
NZ590597 A	20180629	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 03 JUL 2019 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20180619
NZ590597 A	20190628	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 03 JUL 2020 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20190618
WO10000038 A1	20100107	LSPB	+	published / reissued	
WO10000038 A1	20110105	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO10000038 A1	20110119	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 590597 COUNTRY OF REF DOCUMENT : NZ
WO10000038 A1	20110124	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	TEXT : PCT FILING DATE = 20090703 REF DOCUMENT NUMBER : 1101136 COUNTRY OF REF DOCUMENT : GB KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO10000038 A1	20110124	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1101136.8 COUNTRY OF REF DOCUMENT : GB
WO10000038 A1	20110914	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 09771855 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: A SUPPORT **POST** FOR A SAFETY FENCE ASSEMBLY

Abstract: A support **post** and safety fence assembly in which the **post** has a telescoping inner and outer tube and is supported on a threaded internal shaft coupled to a floor engaging end and ceiling engaging end preferably formed with claws that have a number of sharp penetrating points for firm engagement with a support surface. In one embodiment, a gravity lock assembly is provided for fixing the relative position of the inner and outer tubes. Dynamic adjustability of the support **post** is provided by internal compression springs.

Classifications:

International (IPC 8-9): E04G21/24 E04G21/32 E04G25/00 E04G25/06 E04H12/18 E04H17/14 E04H17/18 E04H17/20 E04H17/22 (Advanced/Invention);

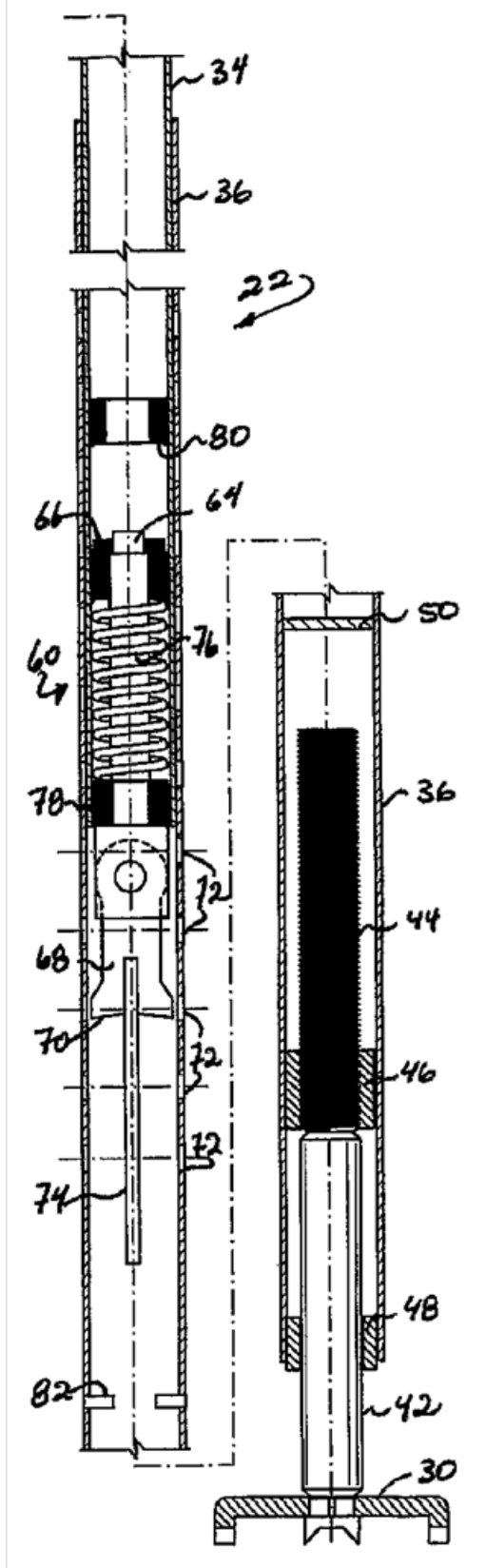
E04G21/32 E04G25/00 E04H12/00 E04H17/14 E04H17/16 (Core/Invention)

International (IPC 1-7): E04G21/32 E04G25/06 E04H12/18 E04H17/18 E04H17/20 E04H17/22

CPC: E04G2005/148 E04G25/00 E04F2011/187 E04G21/3233 E04G25/06 E04G2025/006

European: E04G21/32B6B E04G25/00 E04G25/06 P04F11/18T1

PatBase - W006010270_A1



Family:

Publication number	Publication date	Application number	Application date
AU2005266809 AA	20060202	AU20050266809	20050727

AU2005266809 BB	20100909	AU20050266809	20050727
CA2475997 AA	20060128	CA20042475997	20040728
CA2475997 C	20130409	CA20042475997	20040728
CA2803836 AA	20060128	CA20042803836	20040728
CA2803836 C	20141014	CA20042803836	20040728
CN100523418 C	20090805	CN200580025457	20050727
CN101068995 A	20071107	CN200580025457	20050727
EP1778935 A1	20070502	EP20050770399	20050727
EP1778935 A4	20081105	EP20050770399	20050727
IN00707DN2007 A	20070427	IN2007DN00707	20070125
IN270621 B	20160108	IN2007DN00707	20070125
NO20070508 A	20070221	NO20070000508	20070126
NO20070508 L	20070221	NO20070000508	20070126
WO06010270 A1	20060202	WO2005CA01188	20050727

Priority:
CA20042475997 20040728 CA20042803836 20040728 WO2005CA01188 20050727
CA20132475997 20130211

Probable Assignee: MELIC JONATHAN JONNY

Assignee(s): (std): JONASSEN MAREK JONNY ; JONATHAN MELIC ; JONNY MELIC ; MELIC JONNY JONATHON ; MELIC JONATHON JONNY

Assignee(s): MELIC JONATHON JONNYP.O. BOX 162GRIMSBYO1L3M 4G3CA ; PNC IP GROUP PROFESSIONAL CORP ; DELL CORE EDGE PROTECTION LTD ; MAREK JONNY JONASSEN ; MELIC JONATHAN JONNY

Inventor(s): (std): MELIC JONATHON JONNY ; JONASSEN MAREK JONNY ; MELIC JONATHAN JONNY ; MELIC JONNY JONATHON

Inventor(s): JONNY JONATHON MELIC ; JONATHAN JONNY MELIC ; MAREK JONNY JONASSEN ; MELIC JONATHON JONNYP.O. BOX 162GRIMSBYO1L3M 4G3CA

Agent(s): SHELSTON IP PTY LTD; PROTECTMYIDEACOMAU; SHELSTON IP; GOWLING LAFLEUR HENDERSON LLP; RIDOUT AND MAYBEE LLP; PNC IP GROUP PROFESSIONAL CORP

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

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

Patent	Date recorded	Event group	Code	Event	Details
AU2005266809 AA	20060202	LSPB	+	published / reissued	
AU2005266809 AA	20090702	LSRE	DA3	AMENDMENTS MADE SECTION 104	TEXT : THE NATURE OF THE AMENDMENT IS: AMEND THE INVENTOR NAME FROM MELIC, JONNY JONATHON TO MELIC, JONATHAN JONNY
AU2005266809 BB	20100909	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2005266809 BB	20110113	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2005266809 BB	20190613	LSAS	PC	ASSIGNMENT REGISTERED	PARTYTYPE : OWNER OWNER : DELL-CORE EDGE PROTECTION LTD. OLDPARTY : FORMER OWNER(S): MELIC, JONATHAN
AU2005266809 BB	20250727	PEXP		Calculated Patent Term Expiry	
CA2475997 AA	20060128	LSPB	+	published / reissued	
CA2475997 AA	20090723	LSES	+EEER	EXAMINATION REQUEST	
CA2475997 C	20130409	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2475997 C	20240728	PEXP		Calculated Patent Term Expiry	
CA2803836 AA	20060128	LSPB	+	published / reissued	
CA2803836 AA	20130227	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20130125
CA2803836 AA	20130301	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20130125
CA2803836 C	20141014	LSGT	+	granted / extensions (spc, cpc, pte)	

CA2803836 C	20240728	PEXP		Calculated Patent Term Expiry	
CN100523418 C	20090805	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100523418 C	20090805	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN100523418 C	20090812	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	
CN100523418 C	20090812	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	PARTYTYPE : OWNER OWNER : JONATHAN JONNY MALIK OLDPARTY : FORMER NAME: JONNY JONATHAN MALIK
CN100523418 C	20250727	PEXP		Calculated Patent Term Expiry	
CN101068995 A	20071107	LSPB	+	published / reissued	
CN101068995 A	20071107	LSPB	+C06	PUBLICATION	
EP1778935 A1	20070502	LSPB	+	published / reissued	
EP1778935 A1	20070502	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070222
EP1778935 A4	20081105	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20081008
EP1778935 A4	20081203	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : MELIC, JONATHAN JONNY
EP1778935 A4	20090304	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20090205
EP1778935 A4	20160427	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20151103
IN00707DN2007 A	20070427	LSPB	+	published / reissued	
IN270621 B	20160108	LSGT	+	granted / extensions (spc, cpc, pte)	
IN270621 B	20270125	PEXP		Calculated Patent Term Expiry	
NO20070508 A	20070221	LSPB	+	published / reissued	
NO20070508 A	20140224	LSRV	-FC2A	WITHDRAWAL, REJECTION OR DISMISSAL OF LAID OPEN PATENT APPLICATION	
WO06010270 A1	20060202	LSPB	+	published / reissued	
WO06010270 A1	20070124	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005266809 COUNTRY OF REF DOCUMENT : AU
WO06010270 A1	20070124	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 552846 COUNTRY OF REF DOCUMENT : NZ
WO06010270 A1	20070125	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 707/DELNP/2007 COUNTRY OF REF DOCUMENT : IN
WO06010270 A1	20070126	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005770399 COUNTRY OF REF DOCUMENT : EP
WO06010270 A1	20070129	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580025457.7 COUNTRY OF REF DOCUMENT : CN
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WO06010270 A1	20070222	LSNP	ENP	PHASE IN:	
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WO06010270 A1	20070502	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005770399 COUNTRY OF REF DOCUMENT : EP

Title: CABLE GUIDE SYSTEM FOR A MOLD FORMING AND EXTRUDING MACHINE AND A METHOD OF USE

Abstract: A cable guide system and method are disclosed for a mold forming and extruding machine. The machine has a pair of spaced apart vertical members. The cable guide system includes a support shaft secured to the pair of vertical members. The support shaft retains a first stop member, a tensioning device, a spool loaded with a flexible **reinforcement** cable, and a second stop member. The spool cooperates with the tensioning device to prevent the cable from prematurely unraveling. The cable guide system further includes a guide member located below and forward of the spool and in horizontal alignment with a plunger. The guide member is capable of changing the direction of the flexible **reinforcement** cable as it is unwound from the spool. The plunger is capable of extruding a moldable substance from the machine while allowing the flexible **reinforcement** cable to pass through an aperture formed therein.

Classifications:

International (IPC 8-9): B29C47/02 B29C47/08 E01C11/22

E01C19/00 E04B1/06 E04G11/22 (Advanced/Invention);

E01F9/053 (Advanced/Non-invention);

E04B1/02 E04G11/00 (Core/Invention)

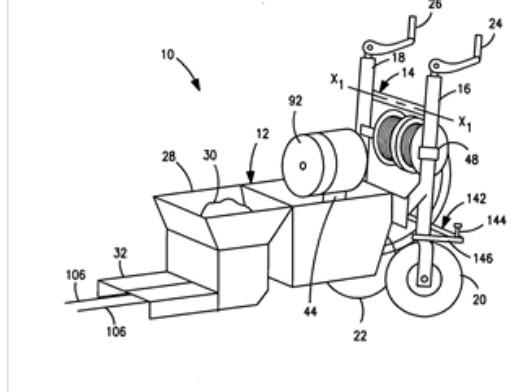
CPC: E04G11/34 E04G21/04

European: E04G11/34 E04G21/04

US: 264/171.13 264/171.130P 264/33 264/33P 264/35 425/113

425/113S 425/114 425/122 425/185 425/64 425/65 425/65S

PatBase - US2010225015_AA



Family:

Publication number	Publication date	Application number	Application date
US2010225015 AA	20100909	US20090381040	20090306
US2011079935 AA	20110407	US20100928209	20101206
US7871256 BB	20110118	US20090381040	20090306

Priority:

US20090381040 20090306 US20100928209 20101206

Probable Assignee: CURB SOLUTIONS LLC

Assignee(s): (std): CURB SOLUTIONS LLC

Inventor(s): (std): TECHLIN AARON A ; CONRADT GRAHAM M ; TECHLIN TYLER N

Agent(s): WILHELM LAW SERVICE SC; THOMAS J; WILHELM LAW SC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2010225015 AA	20100909	LSPB	+	published / reissued	
US2011079935 AA	20110407	LSPB	+	published / reissued	
US2011079935 AA	20101206	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CURB SOLUTIONS, LLC, WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:TECHLIN, AARON A.; CONRADT, GRAHAM M.; TECHLIN, TYLER N.; REEL/FRAME:025485/0955 EFFECTIVE DATE : 20090306
US2011079935 AA	20120206	LSWD	-ABD2	Abandoned -- Failure to Pay Issue Fee	
US7871256 BB	20110118	LSGT	+	granted / extensions (spc, cpc, pte)	
US7871256 BB	20090306	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CURB SOLUTIONS, LLC, WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:TECHLIN, AARON A.; CONRADT, GRAHAM M.; TECHLIN, TYLER N.; REEL/FRAME:022425/0617 EFFECTIVE DATE : 20090306
US7871256 BB	20150118	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	

US7871256 BB	20150216	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7871256 BB	20150216	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7871256 BB	20150310	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20150118
US7871256 BB	20290306	PEXP		Calculated Patent Term Expiry	

Title: GERUEST MIT EINER IN DER HOEHE VERSTELLBAREN ARBEITSBUEHNE

Abstract: Source: FR2139441A [FR] (Claim 1) REVENDICATIONS 10) Echafaudage comportant un dispositif elevateur mobile et comprenant une plate-forme porteuse de charges, des montants d'angle relies au dispositif elevateur, des cremailles placees sur les montants, des arbres prevus sur le dispositif elevateur et portant des pignons qui engr8aent avec les cremailles, et un dispositif assurant la rotation des arbres pour faire monter ou descendre le dispositif elevateur sur les montants, ehfaudage caracterisd en ce qu'il est prevu, a chaque angle du dispositif elevateur, un bras vertical oomportant une ouverture de section droite suffisante pour que chaque bras puisse monter ou descendre librement par rapport a son montant, et en ce que chaque bras comporte une ouverture laterale a travers laquelle chaque pignon peut engrener avec la oreialere associee.

Machine translation: (Claim 1) CLAIMS 10) scaffold with an elevator device comprising a mobile platform carrying loads, of the corner device connected to the elevator, racks placed on the amounts provided for trees on the elevator and carrying device gable engr8aent with the racks, and a provision ensuring the rotation of the shafts to raise or lower the device elevation on the amounts, ehfaudage caracterisd in that it is expected, at each corner of the elevator device, a vertical arm oomportant an opening of sufficient cross section so that each arm can go up or down freely in relation to its amount, and in that each arm has a side opening through which each gear can mesh with the associated oreialere.

Classifications:

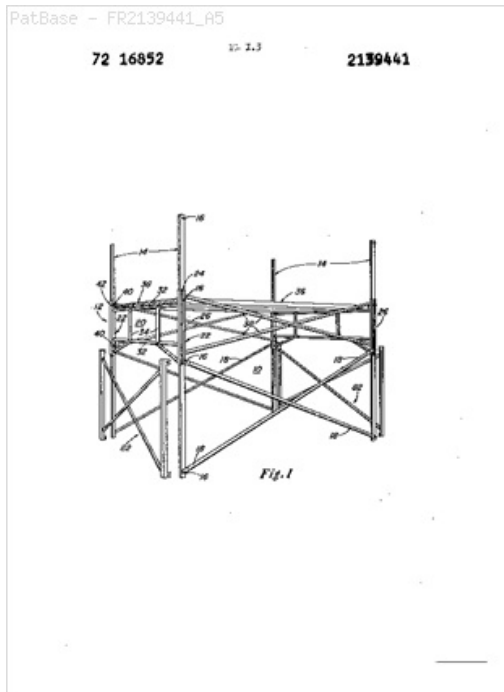
International (IPC 8-9): E04G1/22 (Advanced/Invention);

E04G1/18 (Core/Invention)

International (IPC 1-7): E04G1/00 E04G1/22 E04G3/00 E04G3/10

CPC: E04G1/22

European: E04G1/22



Family:

Publication number	Publication date	Application number	Application date
AR195668 A1	19731031	AR19720241780	19720503
AU197242065 A1	19731220	AU19720042065	19720509
DE2222130 A1	19721123	DE19722222130	19720505
FR2139441 A5	19730105	FR19720016852	19720510
IL39377 A0	19720726	IL19720039377	19720508
IT957775 A	19731020	IT19720050135	19720509

Priority:

US19710141566 19710510

Probable Assignee: BRESTON M

Assignee(s): (std): BRESTON M ; BRESTON M P ; READY CO ; BRESTON MICHAEL P ; READY C ; READY CO MIDHAD BRESTON ; READY D

Assignee(s): READY CO AND MICHAEL P BEESTON ; READY CO AND BRESTON M P

Inventor(s): (std): READY DELBERT L ; READY CLEO F ; F READY CLEO ; L READY DELBERT

Inventor(s): DELBERT L READY ; CLEO F READY ; DELBERT L READY AND CLEO F READY

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR195668 A1	19731031	LSGT	+	granted / extensions (spc, cpc, pte)	
AR195668 A1	19920503	PEXP		Calculated Patent Term Expiry	
AU197242065 A1	19731220	LSPB	+	published / reissued	
DE2222130 A1	19721123	LSPB	+	published / reissued	
FR2139441 A5	19730105	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2139441 A5	19740712	LSLE	-ST	NOTIFICATION OF LAPSE	

FR2139441 A5	19920510	PEXP		Calculated Patent Term Expiry
IT957775 A	19731020	LSGT	+	granted / extensions (spc, cpc, pte)
IT957775 A	19920509	PEXP		Calculated Patent Term Expiry

Title: METHOD FOR INSTALLING A HANGING SCAFFOLDING TO A BUILDING FRONT AND SYSTEM FOR IMPLEMENTING SAME

Abstract: The invention concerns a method for installing a hanging scaffolding to a building front and system for implementing said method. The system is characterised in that it comprises a device for lifting assembled scaffolding elements (22, 29) and consists of first scaffolding elements (2) hooked manually on the building front (1) anchoring pins, from ground level, with a pole controlled by an operator remaining at ground level, the lifting device enabling the operator to lift the assembled scaffolding elements (22, 29) to a predetermined height for use. The invention is applicable in the building industry.

Classifications:

International (IPC 8-9): E04G3/20 E04G3/26 E04G3/28 E04G5/04 (Advanced/Invention);

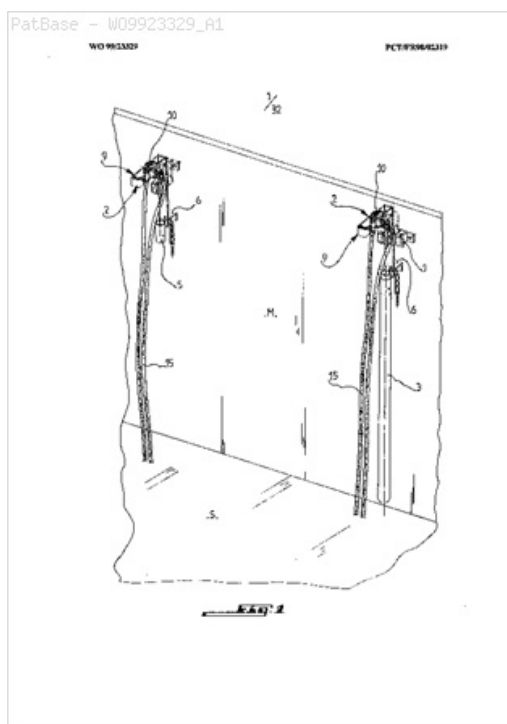
E04G3/20 E04G3/24 E04G3/28 E04G5/00 (Core/Invention)

International (IPC 1-7): E04G3/00 E04G3/08 E04G3/10 E04G5/04

CPC: E04G5/046 E04G3/26 E04G3/20 E04G3/28 E04G5/04

E04G2001/155 E04G5/041 E04G5/045

European: E04G3/00D E04G3/00F E04G3/00G E04G3/20 E04G3/26 E04G3/28 E04G5/04



Family:

Publication number	Publication date	Application number	Application date
EP1027512 A1	20000816	EP19980952815	19981029
FR2770554 A1	19990507	FR19970013731	19971031
FR2770554 B1	20000107	FR19970013731	19971031
WO9923329 A1	19990514	WO1998FR02319	19981029

Priority:

FR19970013731 19971031 WO1998FR02319 19981029

Probable Assignee: FRENEHARD AND MICHAUX SA

Assignee(s): (std): FRENEHARD AND MICHAUX SA ; FRENEHARD ET MICHAUX ETS ; HURE GABRIEL MAURICE MICHEL ; NARDIN VINCENT PIERRE

Assignee(s): GABRIEL MAURICE MICHEL HURE ; ETS FRENEHARD ET MICHAUX ; ETS FRENEHARD ET MICHAUX S A ; FRENEHARD ET MICHAUX ETS SA

Inventor(s): (std): HURE GABRIEL MAURICE MICHEL ; NARDIN VINCENT PIERRE

Inventor(s): GABRIEL MAURICE MICHEL HURE

Agent(s): CABINET WEINSTEIN

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP1027512 A1	20000816	LSPB	+	published / reissued	
EP1027512 A1	20000816	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20000531
EP1027512 A1	20010620	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20010507
EP1027512 A1	20081001	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20080411
FR2770554 A1	19990507	LSPB	+	published / reissued	
FR2770554 B1	20000107	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2770554 B1	20151027	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT

					: 19
FR2770554 B1	20161012	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 20
FR2770554 B1	20171031	PEXP		Calculated Patent Term Expiry	
WO9923329 A1	19990514	LSPB	+	published / reissued	
WO9923329 A1	20000303	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1998952815 COUNTRY OF REF DOCUMENT : EP
WO9923329 A1	20000428	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 09559970 COUNTRY OF REF DOCUMENT : US
WO9923329 A1	20000816	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1998952815 COUNTRY OF REF DOCUMENT : EP
WO9923329 A1	20010430	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : CA
WO9923329 A1	20080411	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1998952815 COUNTRY OF REF DOCUMENT : EP

Title: BINDING MACHINE FOR ELONGATED OBJECTS, E.G. CONCRETE REINFORCING BARS, HAS CLAWS FOR GUIDING WIRE TO FORM BRACKET AROUND THREE SIDES OF OBJECTS AND DEVICE FOR BENDING BRACKET ARMS TOWARDS OBJECTS

Abstract: Two claws for guiding the binding wire are located on opposite sides of the objects being tied together and a mechanism is provided for supplying the wire to the first claw and then along a guide surface on the first claw to the second claw. The wire is shaped to form a bracket extending around three sides of the objects and the bracket arms are secured together on the fourth side. A device which can be moved towards the objects whilst they are in contact with the end sections of the bracket arms after the wire has been tied, causing the arms to be bent towards the objects.

Classifications:

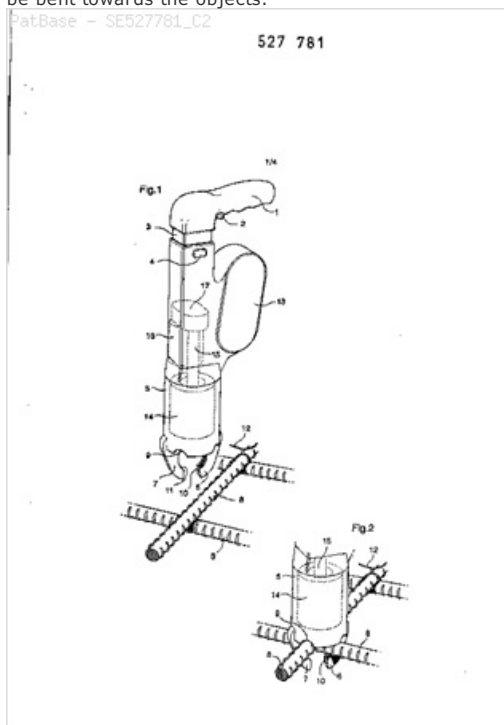
International (IPC 8-9): E04G21/12 (Advanced/Invention);

E04G E04G21/12 (Core/Invention);

E04G (Subclass/Invention)

CPC: E04G21/122

European: E04G21/12C



Family:

Publication number	Publication date	Application number	Application date
SE200402664 A	20060504	SE20040002664	20041103
SE200402664 A0	20041103	SE20040002664	20041103
SE200402664 L	20060504	SE20040002664	20041103
SE527781 C2	20060607	SE20040002664	20041103

Priority:

SE20040002664 20041103

Probable Assignee:

HOYAUKIN PETER

Assignee(s): (std):

HOYAUKIN PETER

Assignee(s):

PETER HOYAUKIN

Inventor(s): (std):

HOYAUKIN PETER ; PETER HOYAUKIN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
SE200402664 A	20060504	LSPB	+	published / reissued	
SE527781 C2	20060607	LSGT	+	granted / extensions (spc, cpc, pte)	
SE527781 C2	20080715	LSLE	-NUG	PATENT HAS LAPSED	
SE527781 C2	20241103	PEXP		Calculated Patent Term Expiry	

Title: METHOD FOR SLIP-FORMING WALLS OF ASYMMETRICAL TRANSVERSE CROSS SECTION

Abstract: ABSTRACT OF THE DISCLOSURE The invention pertains to a method for forming elongated concrete structures, such as walls and the like, by slip forming. In particular, the invention is directed to the concept of slip-forming walls of asymmetrical transverse cross section as required in the forming of highway barrier walls. The concrete slip form includes opposite sidewalls and open front and rear ends. At least one of the sidewalls is vertically adjustable wherein the sidewall configuration being formed thereby may have a height variance with respect to the opposite sidewall being formed. The form includes fixed wall portions associating with the adjustable wall portion and power means permit adjustment of the vertical adjustable wall. It is also within the scope of the invention to provide a form wherein both sidewalls are vertically adjustable, and the form includes means for introducing steel **reinforcement** into the formed wall, and periodically permitting accessory equipment to be embedded into the wall.

Classifications:

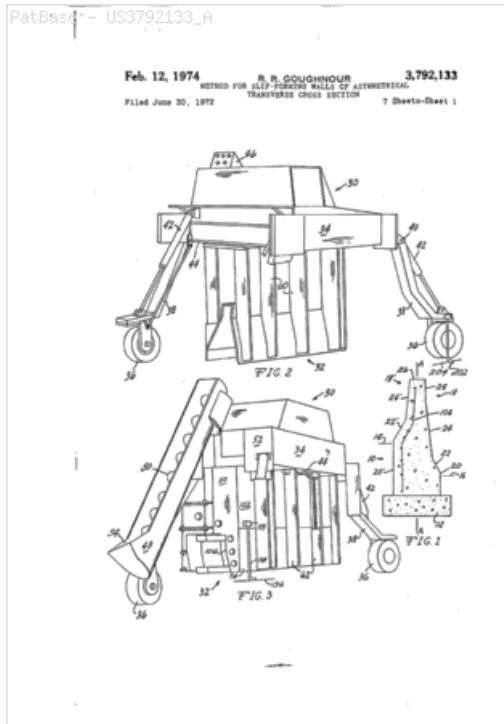
International (IPC 8-9): E01C19/48 E04G11/34 (Advanced/Invention); E01C19/00 E04G11/00 (Core/Invention)

International (IPC 1-7): B28B13/02 B28B15/00 E04B1/16

CPC: E01C19/4893 E04G11/34

European: E01C19/48H5 E04G11/34

US: 264/33 264/40.5 264/70 404/98 425/135 425/219 425/63 425/64



Family:

Publication number	Publication date	Application number	Application date
US3792133 A	19740212	US19720268159	19720630
US4014633 A	19770329	US19730376718	19730705

Priority:

US19720268159 19720630 US19730376718 19730705

Probable Assignee: AUKERMAN CO A C

Assignee(s): (std): AUKERMAN A CO ; AUKERMAN CO A C

Assignee(s): A C AUKERMAN CO ; AUKERMAN A CO US

Inventor(s): (std): GOUGHNOUR ROY ROBERT ; GOUGHNOUR R

Inventor(s): GOUGHNOUR R US

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US3792133 A	19740212	LSGT	+	granted / extensions (spc, cpc, pte)	
US4014633 A	19770329	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: METHOD FOR ESTABLISHING A FOUNDATION IN PARTICULAR FOR A TOWER OF A WIND ENERGY PLANT

Abstract: The invention relates to a method for building a foundation for a structure comprising a plurality of segments, in particular for a wind turbine tower, a foundation segment for use in such method, and a wind turbine. In order to create a stable foundation, a method comprising the following steps is proposed on the basis of experience gained: excavating a foundation bed, building a stable, substantially level and horizontal subbase in a foundation bed, setting down a foundation segment of the structure on the subbase, wherein at least three vertically adjustable support poles are fixedly attached to said foundation segment by means of a supporting bracket mounted at the end of the support poles in such a way that only the support poles are placed onto predetermined points of support on the subbase, producing a reinforcement on the subbase, filling the remainder of the foundation bed with foundation mass, in particular concrete, to a level above the bottom rim of the foundation segment.

Classifications:

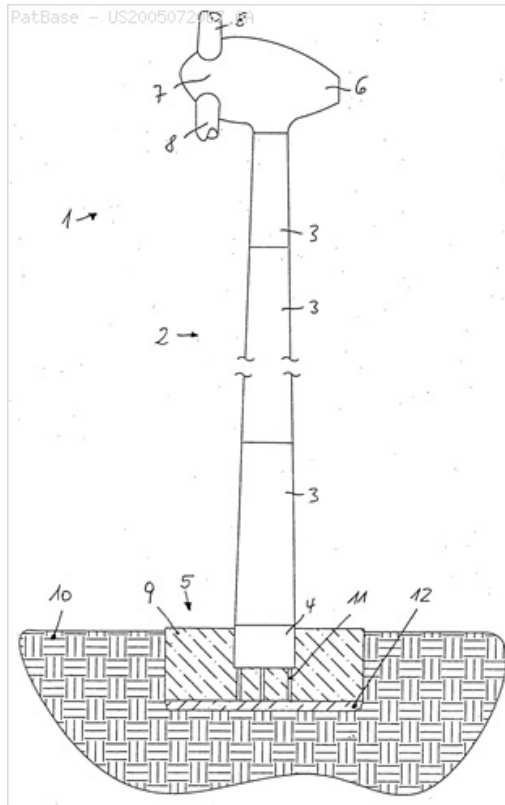
International (IPC 8-9): E02D27/01 E02D27/16 E02D27/32
E02D27/42 E04B1/00 E04G1/22 F03D1/00 F03D11/04 F03D13/20
F16M11/00 (Advanced/Invention);
E02D27/32 (Advanced/Non-Invention);
E02D27/01 E02D27/12 E02D27/32 E04B1/00 E04G1/18 F03D1/00
F16M11/00 (Core/Invention)

International (IPC 1-7): E02D27/00 E02D27/01 E02D27/32
E02D27/42 F03D11/04

CPC: E02D27/32 E02D27/425 E02D27/42 F03D13/22 Y02B10/30
Y02E10/728 Y02P70/523 Y10S416/06

European: E02D27/42 F03D11/04B Y02B10/30 Y02E10/72
Y02E10/72N

US: 248/125.8 248/156 416/DIG.6 52/126.1 52/155 52/155P
52/169.9 52/169.900S 52/296 52/299 52/299P 52/40 52/741.14
52/741.15



Family:

Publication number	Publication date	Application number	Application date
AR036769 AA	20040929	AR2002P103798	20021009
AT403043 E	20080815	AT20020800568T	20020924
AU2002362779 AA	20030422	AU20020362779	20020924
AU2002362779 BB	20051013	AU20020362779	20020924
BRPI0213161 A	20040914	BR2002PI13161	20020924
BRPI0213161 B1	20121127	BR2002PI13161	20020924
CA2463253 AA	20030417	CA20022463253	20020924
CA2463253 C	20080819	CA20022463253	20020924
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DE10226996 A1	20030410	DE20021026996	20020618
DE10226996 B4	20140703	DE20021026996	20020618
DE50212584 D1	20080911	DE20025012584	20020924
DK1442175 T3	20081124	DK20020800568T	20020924
EP1442175 A1	20040804	EP20020800568	20020924
EP1442175 B1	20080730	EP20020800568	20020924
ES2310219 T3	20090101	ES20020800568T	20020924
IN00752CN2004 A	20060113	IN2004CN00752	20040408
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PT1442175 T	20080902	PT20020800568T	20020924
US2005072067 AA	20050407	US20040492103	20041018
US2009235597 AA	20090924	US20090479654	20090605

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US7900406 BB	20110308	US20090479654	20090605
WO03031733 A1	20030417	WO2002EP10673	20020924
ZA200403177 A	20040927	ZA20040003177	20030428

Priority:

DE20011049669	20011009	DE20021000728	20020111	DE20021000728	20020211
DE20021026996	20020618	DE20025012584	20020924	EP20020800568	20020924
WO2002EP10673	20020924	US20020492103	20020924	WO2002EP10673	20040408
US20040492103	20041018	US20090479654	20090605		

Probable Assignee: WOBLEN ALOYS

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR036769 AA	20040929	LSPB	+	published / reissued	
AR036769 AA	20090921	LSGT	+FG	GRANT, REGISTRATION	
AT403043 E	20080815	LSGT	+	granted / extensions (spc, cpc, pte)	
AT403043 E	20220924	PEXP		Calculated Patent Term Expiry	
AU2002362779 AA	20030422	LSPB	+	published / reissued	
AU2002362779 BB	20051013	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2002362779 BB	20060216	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2002362779 BB	20190418	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2002362779 BB	20220924	PEXP		Calculated Patent Term Expiry	
BRPI0213161 A	20040914	LSPB	+	published / reissued	
BRPI0213161 A	20100803	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI0213161 A	20120731	LSGT	B09A	DECISION: INTENTION TO GRANT	
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CA2463253 AA	20040408	LSES	+EEER	EXAMINATION REQUEST	
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CA2463253 C	20220924	PEXP		Calculated Patent Term Expiry	

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DE10226996 A1	20090903	LSSES	+8110	REQUEST FOR EXAMINATION PARAGRAPH 44	
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DE10226996 B4	20180307	LSAL	R006	APPEAL FILED	
DE10226996 B4	20180323	LSOP	R008	CASE PENDING AT FEDERAL PATENT COURT	
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DK1442175 T3	20220924	PEXP		Calculated Patent Term Expiry	
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EP1442175 A1	20040804	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20040510
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EP1442175 B1	20190731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

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EP1442175 B1	20190830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20180930
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ES2310219 T3	20220924	PEXP		Calculated Patent Term Expiry	
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IN247450 B	20240408	PEXP		Calculated Patent Term Expiry	
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JP2005515321 T2	20060524	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20060523
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JP2005515321 T2	20070223	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20070222
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JP2005515321 T2	20070607	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20070529
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JP3966857 B2	20070605	LSFE	R100	特許料納付書 (Patent fee payment form)	
JP3966857 B2	20100603	LSFE	R20	特許料納付書 (Patent fee payment form)	
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JP3966857 B2	20140529	LSFE	R20	特許料納付書 (Patent fee payment form)	
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KR100713584 B1	20070802	LSOP	-O035	OPPOSITION [PATENT]: REQUEST FOR OPPOSITION	
KR100713584 B1	20070927	LSOP	O132	DECISION ON OPPOSITION [PATENT]	
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KR20040037263 A	20060420	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
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KR20040037263 A	20070425	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
MA26339 A1	20041001	LSPB	+	published / reissued	
MA26339 A1	20240407	PEXP		Calculated Patent Term Expiry	

MXPA04003343 A1	20040708	LSPB	+	published / reissued	
MXPA04003343 A1	20110216	LSGT	+FG	GRANT OR REGISTRATION	
NO20041876 A	20040507	LSPB	+	published / reissued	
NO337912 B1	20160711	LSGT	+	granted / extensions (spc, cpc, pte)	
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PL202716 B1	20090731	LSGT	+	granted / extensions (spc, cpc, pte)	
PL368454 A1	20050321	LSPB	+	published / reissued	
PT1442175 T	20080902	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1442175 T	20220924	PEXP		Calculated Patent Term Expiry	
US2005072067 AA	20050407	LSPB	+	published / reissued	
US2005072067 AA	20091021	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2009235597 AA	20090924	LSPB	+	published / reissued	
US2009235597 AA	20110216	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7614200 BB	20091110	LSGT	+	granted / extensions (spc, cpc, pte)	
US7614200 BB	20091021	LSGT	PAT1	Patented Case	
US7614200 BB	20100525	LSRE	CC	CERTIFICATE OF CORRECTION	
US7614200 BB	20101019	LSRE	CC	CERTIFICATE OF CORRECTION	
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US7900406 BB	20290605	PEXP		Calculated Patent Term Expiry	
WO03031733 A1	20030417	LSPB	+	published /	

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WO03031733 A1	20040407	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2004/003343 COUNTRY OF REF DOCUMENT : MX
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ZA200403177 A	20230427	PEXP		Calculated Patent Term Expiry	

Title: CORNER CLIMBER

Abstract: The present invention is a novel device for climbing inside corners, outside corners, and a variety of surfaces. The technology presented herein relies on high friction materials, suction devices, adhesive materials, pneumatic devices, etc. Specifically, embodiments of the present invention are designed to clamp onto inside or outside corners such that the devices weight, and an optional load, can be supported. Further embodiments allow the device to climb up, down, and across corners. Moreover, embodiments that can scale flat, rough, or jagged surfaces are also disclosed.

Classifications:

International (IPC 8-9): A47F5/00 A47F5/08 A63B27/00 A63B29/00 E04G21/32 (Advanced/Invention);

A47F5/00 A47F5/08 A63B27/00 A63B29/00 (Core/Invention)

International (IPC 1-7): A47F5/08 A63B71/00 E06C7/18

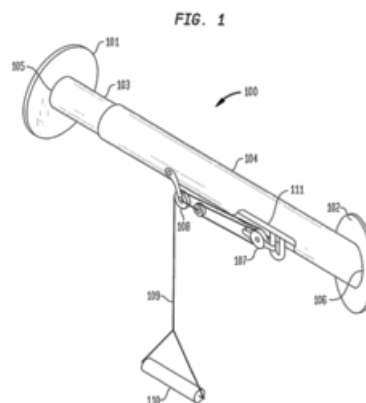
CPC: Y10S248/925 E04G21/32 A63B29/00 A63B27/00 A63B2208/12 A63B2225/055

European: A63B27/00 A63B29/00 K63B208/12 K63B225/05F

US: 248/200.1 248/229.1 248/231.9 248/231.91 248/231.910P 248/694 248/925 254/242

PatBase - US2003209642_AA

Patent Application Publication Nov. 13, 2003 Sheet 1 of 80 US 2003/0209642 A1



Family:

Publication number	Publication date	Application number	Application date
US2003209642 AA	20031113	US20020142738	20020509
US2005167556 AA	20050804	US20040969272	20041020
US2005263658 AA	20051201	US20050197385	20050804
US2006065799 AA	20060330	US20050280765	20051116
US7717381 BB	20100518	US20050280765	20051116
US7793911 BB	20100914	US20040969272	20041020
US7823845 BB	20101102	US20020142738	20020509
US7871049 BB	20110118	US20050197385	20050804
USRE46299 E	20170207	US20120494580	20120612

Priority:

US20020142738 20020509 US20040969272 20041020 US20050197385 20050804
US20050280765 20051116 US20120494580 20120612

Probable Assignee: DMR HOLDING GROUP LLC

Assignee(s): (std): DMR HOLDING GROUP LLC ; FONTANA RICHARD ; REINFELD DAVID

Assignee(s): CFG HOLDING CO

Inventor(s): (std): FONTANA RICHARD ; REINFELD DAVID

Agent(s): WARD AND OLIVO; KELLEY DRYE AND WARREN LLP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2003209642 AA	20031113	LSPB	+	published / reissued	
US2003209642 AA	20090213	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DMR HOLDING GROUP, LLC, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: SHELFWORKS TECHNOLOGIES, LLC; REEL/FRA: 022254/0162 EFFECTIVE DATE : 20090101
US2005167556 AA	20050804	LSPB	+	published / reissued	

US2005167556 AA	20090217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DMR HOLDING GROUP, LLC, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:REINFELD, DAVID M.; FONTANA, RICHARD R.; REEL/FRAME:022264/0009 EFFECTIVE DATE : 20090101
US2005167556 AA	20090217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DMR HOLDING GROUP, LLC, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:REINFELD, DAVID M.; FONTANA, RICHARD R.; REEL/FRAME:022264/0009 EFFECTIVE DATE : 20090101
US2005167556 AA	20100825	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2005263658 AA	20051201	LSPB	+	published / reissued	
US2005263658 AA	20090217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DMR HOLDING GROUP, LLC, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:REINFELD, DAVID M.; FONTANA, RICHARD R.; REEL/FRAME:022264/0009 EFFECTIVE DATE : 20090101
US2005263658 AA	20090217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DMR HOLDING GROUP, LLC, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:REINFELD, DAVID M.; FONTANA, RICHARD R.; REEL/FRAME:022264/0009 EFFECTIVE DATE : 20090101
US2005263658 AA	20101228	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
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US7717381 BB	20100428	LSGT	PAT1	Patented Case	
US7717381 BB	20131018	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7717381 BB	20180101	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
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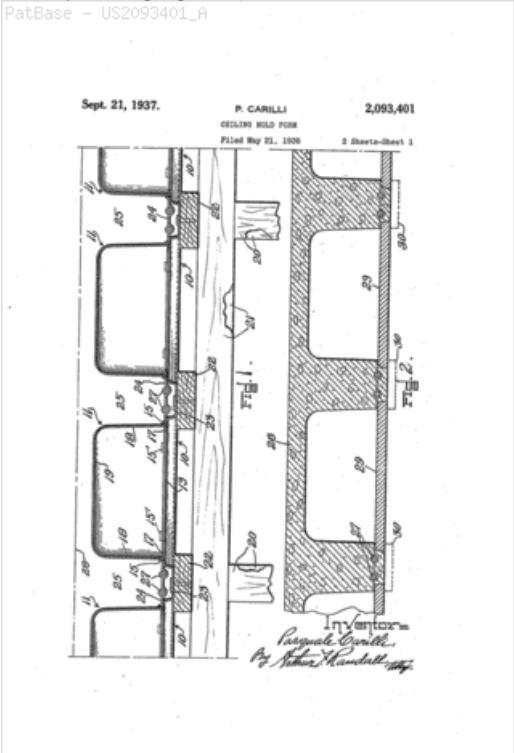
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US7823845 BB	20030620	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CFG HOLDING COMPANY, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FONTANA, RICHARD; REINFELD, DAVID; REEL/FRAME:014199/0023; SIGNING DATES FROM 20030311 TO 20030612
US7823845 BB	20030620	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CFG HOLDING COMPANY, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FONTANA, RICHARD; REINFELD, DAVID; SIGNING DATES FROM 20030311 TO 20030612; REEL/FRAME:014199/0023
US7823845 BB	20101013	LSGT	PAT1	Patented Case	
US7823845 BB	20140408	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7823845 BB	20180618	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7823845 BB	20181210	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US7823845 BB	20181210	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7823845 BB	20181210	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7823845 BB	20190101	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20181102
US7823845 BB	20230325	PEXP		Calculated Patent Term Expiry (PTA 320 days)	
US7871049 BB	20110118	LSGT	+	granted / extensions (spc, cpc, pte)	
US7871049 BB	20101228	LSGT	PAT1	Patented Case	
US7871049 BB	20140612	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7871049 BB	20180301	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7871049 BB	20291113	PEXP		Calculated Patent Term Expiry (PTA 1562 days)	
USRE46299 E	20170118	LSGT	PAT1	Patented Case	
USRE46299 E	20180301	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8

Title: CEILING MOLD FORM

Abstract: 1. A mold unit of the character described comprising a, base section of relatively small height and also of relatively large area as viewed in plan for forming a panel-receiving countersink in the ceiling from which it is removable when the ceiling is finished, said base section consisting of a single piece of sheet metal pressed to provide the same with a rectangular outer marginal flange, with an elevated flat top wall having upstanding positioning lugs adjacent to its outer marginal portion and with side walls connecting said top wall and flange which slope upwardly and inwardly from said flange to said top wall to afford draft for the removal of said base section from the finished ceiling and an upper section separably supported by said base section and positioned relatively thereto by said upstanding lugs.

Classifications:

International (IPC 8-9): E04G11/46 (Advanced/Invention);
E04G11/00 (Core/Invention)
International (IPC 1-7): E04B5/18 E04G11/46
CPC: E04G11/46
European: E04G11/46
US: 249/30 249/31



Family:

Publication number	Publication date	Application number	Application date
US2093401 A	19370921	US19360080939	19360521

Priority:

US19360080939 19360521

Probable Assignee: PASQUALE CARILLI
Assignee(s): (std): PASQUALE CARILLI
Inventor(s): (std): PASQUALE CARILLI
Inventor(s): CARILLI PASQUALE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2093401 A	19370921	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: METHOD AND DEVICE FOR LINKING SCREED AREAS SEPARATED BY A JOINT

Abstract: The invention relates to a method and to a device for linking screed areas that are separated by a joint. The aim of the invention is to interlink screed zones (2, 3) that are separated by a joint (4) and to anchor them in the floor (20), either during application of the screed or when the screed has already been applied. To this end, two aligned incisions (25, 26) are made into the applied screed zones (2, 3) across the joint (4) and substantially at an angle thereto. A connector (1) is inserted into the incisions (25, 26) and is fixated in the zone of the joint (4) with a center part thereof on a floor (20) and with anchor sections (5, 6) in the screed zones (25, 26), while the embedded anchor sections (5, 6) remain laterally and longitudinally displaceable with respect to each other. When the screed sections (25, 26) are applied to a floor (20), the connector (1) can be fixated already beforehand in the zone of a future joint (4) and at an angle thereto, and the anchor sections (5, 6) are anchored in the screed sections (2, 3) as those are applied. To this end, the connector (1) comprises a center part (8) with a device for fixating it on the floor (20). The anchor sections (5, 6) can be axially displaced against the force of a spring (7) also after they have been anchored in the floor.

Classifications:**International (IPC 8-9):** C01G51/08 C01G53/08 C22B3/00

E01C11/14 E01C23/02 E04B1/48 E04B1/61 E04F15/14

E04G21/12 (Advanced/Invention);

C01G51/00 C01G53/00 C22B3/00 E01C11/02 E01C23/00 E04B1/48

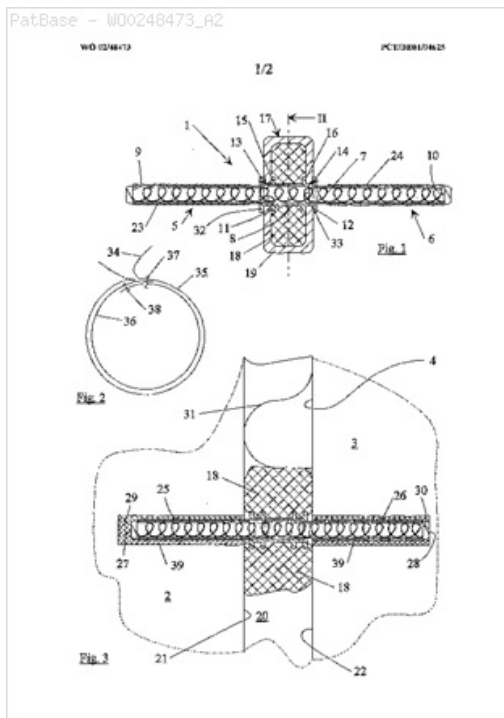
E04B1/61 E04F15/12 E04G21/12 (Core/Invention)

International (IPC 1-7): C01G51/08 C01G53/08 C22B3/00 E04B1/48

E04B1/61 E04B1/68 E04F15/14

CPC: E04B1/483 E04G21/125 E01C11/14 E01C23/026 E04F15/14**European:** C22B23/04 C22B23/04A1A E01C11/14 E01C23/02E

E04B1/48 E04F15/14 E04G21/12D

**Family:**

Publication number	Publication date	Application number	Application date
AT401476 E	20080815	AT20010994601T	20011211
AU2002224747 AA	20020624	AU20020224747	20011211
AU200224747 A1	20020624	AU20020024747	20011211
AU200224747 A5	20020624	AU20020024747	20011211
DE10061861 A1	20020613	DE20001061861	20001212
DE10195423 D2	20031106	DE20011095423	20011211
DE50114134 D1	20080828	DE20015014134	20011211
EP1343944 A2	20030917	EP20010994601	20011211
EP1343944 B1	20080716	EP20010994601	20011211
WO0248473 A2	20020620	WO2001DE04625	20011211
WO0248473 A3	20030123	WO2001DE04625	20011211

Priority:

DE20001061861 20001212 DE20011095423 20011211 WO2001DE04625 20011211

Probable Assignee: ICI AUSTRALIA LTD**Assignee(s):** (std): ERNST KARL HEINZ**Assignee(s):** ICI AUSTRALIA LTD ; KARL HEINZ ERNST**Inventor(s):** (std): ERNST KARL HEINZ**Inventor(s):** KARL HEINZ ERNST ; COLDREY PETER WALLACE**Agent(s):** FLUEGGE CHRISTIAN

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH 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
AT401476 E	20080815	LSGT	+	granted / extensions (spc, cpc, pte)	
AT401476 E	20100315	LSLE	-REN	CEASED DUE TO NON-	

				PAYMENT OF THE ANNUAL FEE	
AT401476 E	20211211	PEXP		Calculated Patent Term Expiry	
AU2002224747 AA	20020624	LSPB	+	published / reissued	
AU200224747 A1	20020624	LSPB	+	published / reissued	
DE10061861 A1	20020613	LSPB	+	published / reissued	
DE10061861 A1	20031002	LSWD	-8143	WITHDRAWN DUE TO CLAIMING INTERNAL PRIORITY	
DE10195423 D2	20051013	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	
DE50114134 D1	20090604	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE50114134 D1	20101216	LSGT	+8365	FULLY VALID AFTER OPPOSITION PROCEEDINGS	
DE50114134 D1	20110414	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : QUITTMANN, JUERGEN, 16928 HELLE, DE
EP1343944 A2	20030917	LSPB	+	published / reissued	
EP1343944 A2	20030917	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030526
EP1343944 A2	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20161105 YEAR OF FEE PAYMENT : 16
EP1343944 B1	20080716	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1343944 B1	20080716	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D TEXT : NOT ENGLISH
EP1343944 B1	20080731	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1343944 B1	20080903	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D TEXT : LANGUAGE OF EP DOCUMENT: GERMAN
EP1343944 B1	20090105	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
EP1343944 B1	20090130	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081027
EP1343944 B1	20090130	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 : 20080716
EP1343944 B1	20090130	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081216
EP1343944 B1	20090227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO

				EPO]	PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080716
EP1343944 B1	20090304	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FD4D
EP1343944 B1	20090422	LSOP	-26	OPPOSITION FILED	PARTYTYPE : OPPONENT OPPONENT : FLIESEN & FUSSBODEN-TECHNIK E. UNGER GMBH EFFECTIVE DATE : 20090317
EP1343944 B1	20090430	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 : 20080716
EP1343944 B1	20090430	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080716
EP1343944 B1	20090630	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : ERNST, KARL- HEINZ EFFECTIVE DATE : 20081231
EP1343944 B1	20090731	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 : 20081231
EP1343944 B1	20090731	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1343944 B1	20090826	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20081211
EP1343944 B1	20090831	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080716
EP1343944 B1	20090930	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 : 20081231
EP1343944 B1	20091002	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20090831
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EP1343944 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 20081231
EP1343944 B1	20091130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES

EP1343944 B1	20100129	LSLE	-PG25	NATIONAL OFFICE TO EPO] LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	LAPSED DATE : 20081211 COUNTRY OF REF DOCUMENT : SE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081016
EP1343944 B1	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20081231
EP1343944 B1	20100630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20081211
EP1343944 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080716
EP1343944 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20081211
EP1343944 B1	20100831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080716
EP1343944 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081017
EP1343944 B1	20101103	LSRE	+270	OPPOSITION REJECTED	EFFECTIVE DATE : 20100819
EP1343944 B1	20110414	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTY TYPE : OWNER REF COUNTRY CODE : DE OWNER : QUITTMANN, JUERGEN, DE REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 50114134 COUNTRY OF REF DOCUMENT : DE OLD PARTY : FORMER OWNER: ERNST, KARL-HEINZ, 37696 MARIENMUNSTER, DE EFFECTIVE DATE : 20110208
EP1343944 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20171204 YEAR OF FEE PAYMENT : 17
EP1343944 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20181201 YEAR OF FEE PAYMENT : 18
EP1343944 B1	20211211	PEXP		Calculated Patent Term Expiry	
WO0248473 A2	20020620	LSPB	+	published / reissued	
WO0248473 A3	20030426	LSNP	+WWE	WIPO INFORMATION:	REF DOCUMENT NUMBER :

				ENTRY INTO NATIONAL PHASE	2001994601 COUNTRY OF REF DOCUMENT : EP
WO0248473 A3	20030917	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001994601 COUNTRY OF REF DOCUMENT : EP
WO0248473 A3	20031106	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10195423 COUNTRY OF REF DOCUMENT : DE
WO0248473 A3	20060118	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO0248473 A3	20060118	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : JP
WO0248473 A3	20080716	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001994601 COUNTRY OF REF DOCUMENT : EP

Title: Support base

Abstract: A support base for distributing a concentrated load over a contact surface is disclosed. The support base includes a body formed of moldable polymeric material having a top surface and a generally planar bottom surface. At least one recess is integrally formed in the top surface for receiving a support member. The support member transfers the concentrated load to the planar body. Furthermore, at least one through bore is provided in the support base, and the through bore extends from the top surface to the bottom surface of the support base for receiving a fastener. The through bore has a shaft portion and a relatively oversized cavity portion adjacent to the bottom surface for receiving fasteners such as nuts for securing bolts, as well as, bolt heads of different sizes and configurations. The support base has many advantages over the prior art for example, the base may be attached to different interface bracketry without be modified.

Classifications:

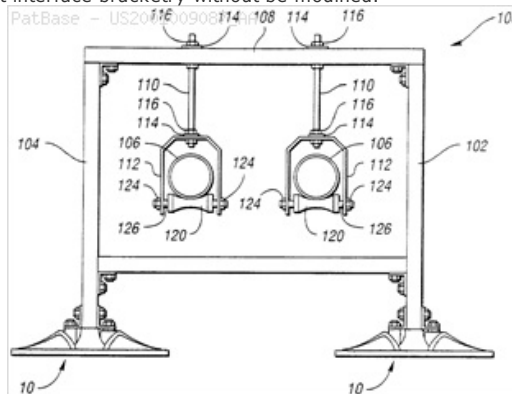
International (IPC 8-9): E04D13/12 E04G1/24 E04G5/00
E04G5/02 (Advanced/Invention)

International (IPC 1-7): A47F5/00 A47F5/12 E02D27/42 E04G
F16L3/00

CPC: E04D13/12 E04G1/24 E04G5/00 E04G5/02

European: E04D13/12 E04G1/24 E04G1/26 E04G5/00 E04G5/02

US: 248/125.8 248/133 248/346.01 248/354.1 248/354.100P 248/49
248/49S 248/519 52/116 52/116S 52/298 52/298P 52/704 52/704S
522/980



Family:

Publication number	Publication date	Application number	Application date
AU200143093 A1	20010618	AU20010043093	20001204
AU200143093 A5	20010618	AU20010043093	20001204
US2001009087 AA	20010726	US20010802439	20010309
US2002125395 AA	20020912	US20020128078	20020423
US2004084596 AA	20040506	US20030682680	20031009
US6324800 BA	20011204	US19990455075	19991206
US6663070 BB	20031216	US20020128078	20020423
US6863253 BB	20050308	US20030682680	20031009
WO0142590 A2	20010614	WO2000US42516	20001204
WO0142590 A3	20011213	WO2000US42516	20001204

Priority:

US19990455075 19991206 WO2000US42516 20001204 US20010802439 20010309
US20020128078 20020423 US20030682680 20031009

Probable Assignee: VALENTZ FAMILY PARTNERSHIP LTD

Assignee(s): (std): PORTABLE PIPE HANGERS INC ; VALENTZ ARTHUR J ; NEMAZI JOHN E ; VALENTZ FAMILY LTD PARTNERSHIP

Assignee(s): VALENTZ FAMILY PARTNERSHIP LTD ; PORTABLE PINE HANGERS INC ; VALENTZ FAMILY LIMITED PARTNERSHIP ; VALENTZ FAMILY LTD

Inventor(s): (std): VALENTZ ARTHUR J ; NEMAZI JOHN E

Inventor(s): ARTHUR J VALENTZ ; JOHN E NEMAZI

Agent(s): BROOKS KUSHMAN PC

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)

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Patent	Date recorded	Event group	Code	Event	Details
AU200143093 A1	20010618	LSPB	+	published / reissued	
AU200143093 A5	20020815	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
US2001009087 AA	20010726	LSPB	+	published / reissued	
US2001009087 AA	20020603	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2001009087 AA	20040927	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PORTABLE PIPE HANGERS INC., TEXAS

					OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VALENTZ, ARTHUR J.; NEMAZI, JOHN E.; REEL/FRAME:015185/0362; SIGNING DATES FROM 19991202 TO 19991206
US2001009087 AA	20041202	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VALENTZ FAMILY LIMITED PARTNERSHIP, TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PORTABLE PIPE HANGERS, INC.; REEL/FRAME:015411/0547 EFFECTIVE DATE : 20041020
US2002125395 AA	20020912	LSPB	+	published / reissued	
US2002125395 AA	20031125	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2004084596 AA	20040506	LSPB	+	published / reissued	
US2004084596 AA	20041202	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VALENTZ FAMILY LIMITED PARTNERSHIP, TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PORTABLE PIPE HANGERS, INC.; REEL/FRAME:015411/0547 EFFECTIVE DATE : 20041020
US2004084596 AA	20050216	LSGT	PAT1	Patented Case	
US2004084596 AA	20050216	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6324800 BA	20011204	LSGT	+	granted / extensions (spc, cpc, pte)	
US6324800 BA	19991206	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PORTABLE PINE HANGERS, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VALENTZ, ARTHUR J.; NEMAZI, JOHN E.; REEL/FRAME:010464/0879; SIGNING DATES FROM 19991202 TO 19991206
US6324800 BA	20011116	LSGT	PAT1	Patented Case	
US6324800 BA	20011116	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6324800 BA	20041202	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VALENTZ FAMILY LIMITED PARTNERSHIP, TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PORTABLE PIPE HANGERS, INC.; REEL/FRAME:015411/0547 EFFECTIVE DATE : 20041020
US6324800 BA	20050301	LSRE	CC	CERTIFICATE OF CORRECTION	
US6324800 BA	20050317	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6324800 BA	20090506	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6324800 BA	20130221	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6324800 BA	20191206	PEXP		Calculated Patent Term Expiry	
US6663070 BB	20031216	LSGT	+	granted / extensions (spc, cpc, pte)	
US6663070 BB	20031125	LSGT	PAT1	Patented Case	
US6663070 BB	20041202	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VALENTZ FAMILY LIMITED PARTNERSHIP, TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PORTABLE PIPE HANGERS, INC.; REEL/FRAME:015411/0547

EFFECTIVE DATE : 20041020					
US6663070 BB	20050222	LSRE	CC	CERTIFICATE OF CORRECTION	
US6663070 BB	20070425	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6663070 BB	20110616	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6663070 BB	20150616	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6663070 BB	20220423	PEXP		Calculated Patent Term Expiry	
US6863253 BB	20050308	LSGT	+	granted / extensions (spc, cpc, pte)	
US6863253 BB	20050510	LSRE	CC	CERTIFICATE OF CORRECTION	
US6863253 BB	20081017	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6863253 BB	20120910	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6863253 BB	20160908	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6863253 BB	20231009	PEXP		Calculated Patent Term Expiry	
WO0142590 A2	20010614	LSPB	+	published / reissued	
WO0142590 A3	20021114	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0142590 A3	20030226	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO0142590 A3	20040908	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP

Title: LONG TRAVEL LIFT SYSTEM, APPARATUS, AND METHOD

Abstract: A long travel lift system, apparatus, and method enables users to raise a structural cap from a structural bottom for creating a fillable space between the structural cap and structural bottom for receiving a second, cap-supporting construction intermediate the structural cap and structural bottom. The long travel lift system incorporates a series of lift apparatuses, each of which include a telescopic tube construction and winch assembly for imparting a lift force to an inner tube of the telescopic tube construction for extending the inner tube relative to an outer tube. The load lifting force is transmitted to the inner tube from the winch assembly via a pulley assembly and lengthwise slot formed in the outer tube of the tube construction. The outer tube is reinforced with various structures in view of the slot formation. The winch assembly is outfitted with a transmission for enhancing rotational speed of the winch assembly.

Classifications:

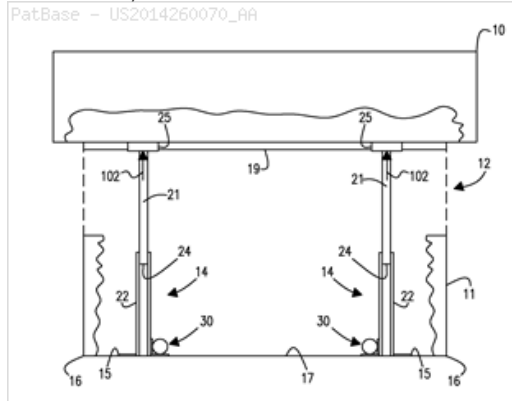
International (IPC 8-9): B66F3/10 E04B1/35

E04G23/02 (Advanced/Invention);

E04B1/35 (Advanced/Non-invention)

CPC: E04G23/0266 E04B1/3527 B66F3/00 E04G21/163 B66F3/44 E04G23/06

US: 1/1 254/278 254/89R 52/741.1



Family:

Publication number	Publication date	Application number	Application date
US2014260070 AA	20140918	US20140214217	20140314
US9140025 BB	20150922	US20140214217	20140314

Priority:

US20130781470P 20130314 US20140214217 20140314

Probable Assignee:

BARCROFT VICTOR N

Assignee(s): (std):

BARCROFT VICTOR N

Inventor(s): (std):

BARCROFT VICTOR N

Agent(s):

MERONI AND MERONI PC; CHARLES F

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2014260070 AA	20140918	LSPB	+	published / reissued	
US2014260070 AA	20150902	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US9140025 BB	20150922	LSGT	+	granted / extensions (spc, cpc, pte)	
US9140025 BB	20150902	LSGT	PAT1	Patented Case	
US9140025 BB	20190513	LSFE	FEPF	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: MICROENTITY
US9140025 BB	20191028	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: MICROENTITY
US9140025 BB	20191028	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US9140025 BB	20191028	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US9140025 BB	20191119	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190922
US9140025 BB	20340314	PEXP		Calculated Patent Term Expiry	

Title: Improvements relating to bridges and bridge-like structures and structural elements

Abstract: 693,423. Bridges; hangars; beams; floors. HAMILTON, A. M. Sept. 7, 1949 [Sept. 13, 1948], No. 24011/48. Classes 20(i), 20(ii) and 20(iv) Bridges or bridge-like structures such as hangers which extend across a considerable free span comprise a hollow tubular shell of rigid material filled with gas under pressure e.g. hydrogen or helium. The shell may be metal and may be reinforced by longitudinal or circumferential wire winding which may cause initial compression in the shell. The longitudinal wire may be secured by circumferential wire 78, Fig. 18, and at both ends by welding c. into a ring 77. The whole may be welded, metal sprayed c. The wire may be woven into a mesh. The tubular element may be formed from rivetted or welded helical strip. The shell may comprise a number of sections fitted end to end. The shell may be lined with rubber. Pressure may be maintained by pumps, chemical action, a reservoir or a volatile liquid. Fig. 1 shows a bridge comprising two curved tubular beams 13 from which the deck 16 is suspended by cables 17. The beams may be built section by section having interfitting hemispherical ends by a crane moving on the already constructed part and longitudinal wiring attached as the work proceeds. Modified bridges comprise a single tube supporting a footway or a road externally and a roadway internally. A further modification comprises a number of tubes arranged side by side diminishing in diameter from the centre. In a suspension bridge dual towers are connected by bracing and have deck girders formed of the gas-filled shells and the gas may be helium or hydrogen. A bridge may be launched with the aid of the reaction of a downwardly directed high velocity gas jet. Floors of bridges are constructed of two sheets 66 of corrugated metal, Fig. 15, secured by bolts on clamping bars at 67 to form a series of cylinders 65 which are charged with gas under pressure. The sheets may have wire mesh **reinforcement**. The whole may be covered with concrete 70 bonded to the bolts 67. Hangars are formed of ribs 60, Fig. 13. and purlins 63 formed of the gas-filled shells. The Provisional Specification describes the invention applied to beams which may be thickened at places of stress and may be of plastic sheets joined by solvents.

Classifications:

International (IPC 8-9): E01D1/00 E01D11/02 E01D2/02 E01D4/00 E04G21/12 E04H12/02 E04H12/08 E04H15/20 (Advanced/Invention); E01D1/00 E01D11/00 E01D2/00 E01D4/00 E04G21/12 E04H12/00 E04H15/20 (Core/Invention)

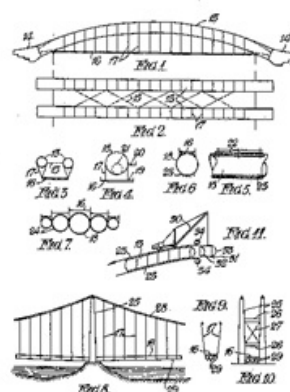
International (IPC 1-7): E01D9/04 E04C3/10 E04G21/12 E04H12/00

CPC: E01D1/005 E01D2/02 E01D4/00 E01D11/02 E01D2101/32

E04G21/12 E04H12/02 E04H12/08 E04H15/20 E04H2015/204

European: E01D1/00C E01D11/02 E01D2/02 E01D4/00 E04G21/12 E04H12/02 E04H12/08 E04H15/20

PatBase - GB693423_A



Family:

Publication number	Publication date	Application number	Application date
GB693423 A	19530701	GB19480024011	19480913
GB693467 A	19530701	GB19510009188	19480913

Priority:

GB19480024011 19480913

Probable Assignee:

ARCHIBALD MILNE HAMILTON

Assignee(s): (std):

ARCHIBALD MILNE HAMILTON

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB693423 A	19530701	LSGT	+	granted / extensions (spc, cpc, pte)	
GB693423 A	19680913	PEXP		Calculated Patent Term Expiry	
GB693467 A	19530701	LSGT	+	granted / extensions (spc, cpc, pte)	
GB693467 A	19680913	PEXP		Calculated Patent Term Expiry	

Title: BUILDING CONSTRUCTION SHORES

Abstract: An adjustable building construction shore has an inner tubular member extending internally of an outer tubular member and displaceable longitudinally of the outer tubular member, the inner and outer members having projecting and recessed longitudinal portions slidably interengaged and preventing relative rotation of the inner and outer tubular members. Openings extending transversely through the inner and outer tubular members are spaced apart longitudinally of the inner and outer tubular members, and retainer members extend through the openings for securing the inner and outer tubular members against relative longitudinal movement. A screw jack supports a lower end of the shore.

Classifications:

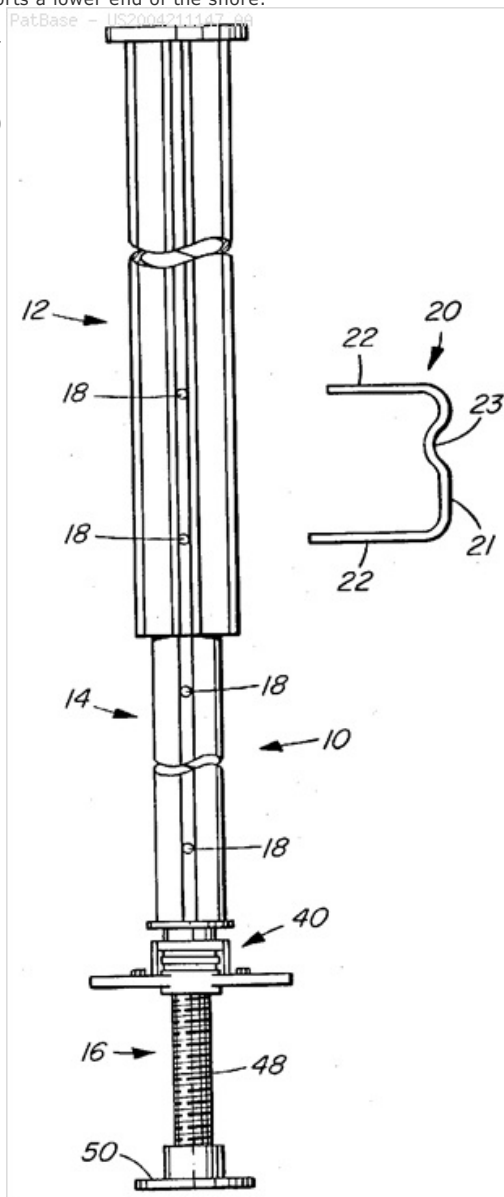
International (IPC 8-9): E02D17/08 E04B9/00 E04G11/48 E04G25/04 E04G25/06 E04G7/30 F16B7/10 (Advanced/Invention); E02D17/06 E04B9/00 E04G11/00 E04G25/00 E04G7/00 F16B7/00 (Core/Invention)

International (IPC 1-7): B66C23/06 E02D17/08 E04G25/04 F16B7/10

CPC: E04G25/061 E04G11/48 E04G7/307 E04G25/06

European: E04G11/48 E04G25/06 E04G7/30C3B

US: 182/141 182/178.6 182/186.6 248/241 248/354.3 52/126.6 52/638 52/720.1 52/79.1 52/791 52/831

**Family:**

Publication number	Publication date	Application number	Application date
CA2450165 AA	20041024	CA20032450165	20031119
CA2450165 C	20071009	CA20032450165	20031119
US2004211147 AA	20041028	US20030421724	20030424
US7165361 BB	20070123	US20030421724	20030424

Priority:

US20030421724 20030424 CA20032450165 20031119

Probable Assignee: HY RISE SCAFFOLDING LTD

Assignee(s): (std): HY RISE SCAFFOLDING LTD ; VANAGAN PETER

Inventor(s): (std): VANAGAN PETER

Agent(s): LONG AND CAMERON; BRIAN M

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2450165 AA	20041024	LSPB	+	published / reissued	

CA2450165 AA	20031119	LSES	+EEER	EXAMINATION REQUEST		
CA2450165 C	20071009	LSGT	+	granted / extensions (spc, cpc, pte)		
CA2450165 C	20231119	PEXP		Calculated Patent Term Expiry		
US2004211147 AA	20041028	LSPB	+	published / reissued		
US7165361 BB	20070123	LSGT	+	granted / extensions (spc, cpc, pte)		
US7165361 BB	20070103	LSGT	PAT1	Patented Case		
US7165361 BB	20100617	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7165361 BB	20140617	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US7165361 BB	20180910	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY	
US7165361 BB	20190225	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY	
US7165361 BB	20190225	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362		
US7165361 BB	20190225	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362	
US7165361 BB	20190319	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190123	
US7165361 BB	20240225	PEXP		Calculated Patent Term Expiry (PTA 307 days)		

Title: BRACE FOR DECK RAILING

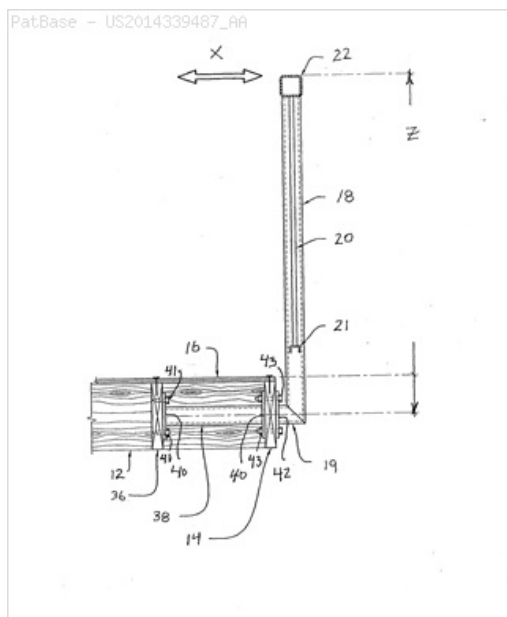
Abstract: A brace for deck railing is provided in which blocking is secured between the joists and a metal brace is fastened at one end to the blocking and at the other end to the **post** and rim board. The brace may be adjustable in length. According to a further variant the brace has a vertical piece attached to a plate which is secured to the **post**. In an alternate arrangement, the vertical element is attached to a sliding sleeve which slides on the brace to permit the placing of the **post** to be varied.

Classifications:

International (IPC 8-9): E04B5/00 E04F11/18 E04G21/32
E04H17/22 (Advanced/Invention)

CPC: E04F11/1812 E04F15/02183 E04G21/3223 E04B5/00
E04F11/1817 E04F2011/1819 E04H17/22

US: 256/65.14



Family:

Publication number	Publication date	Application number	Application date
CA2847200 AA	20140228	CA20122847200	20120906
CA2847200 C	20191015	CA20122847200	20120906
US2014339487 AA	20141120	US20120241914	20120906
WO13033826 A1	20130314	WO2012CA00828	20120906

Priority:

US20110531768P 20110907 US20120241914 20120906 WO2012CA00828 20120906

Probable Assignee: ROBINSON CAMERON K

Assignee(s): (std): ROBINSON CAMERON K

Inventor(s): (std): ROBINSON CAMERON K

Agent(s): OYEN WIGGS GREEN AND MUTALA LLP; GREEN BRUCE M 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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2847200 AA	20140228	LSPB	+	published / reissued	
CA2847200 AA	20170818	LSSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20170810
CA2847200 C	20191015	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2847200 C	20320906	PEXP		Calculated Patent Term Expiry	
US2014339487 AA	20141120	LSPB	+	published / reissued	
US2014339487 AA	20150630	LSSES	NFA1	Non Final Action Mailed	
US2014339487 AA	20160919	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO13033826 A1	20130314	LSPB	+	published / reissued	
WO13033826 A1	20140228	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2847200 COUNTRY OF REF DOCUMENT : CA
WO13033826 A1	20140307	LSNE	NENP	NON-ENTRY INTO THE NATIONAL	REF COUNTRY CODE

PHASE IN:				: DE	
WO13033826 A1	20140611	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14241914 COUNTRY OF REF DOCUMENT : US
WO13033826 A1	20150812	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12829406 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

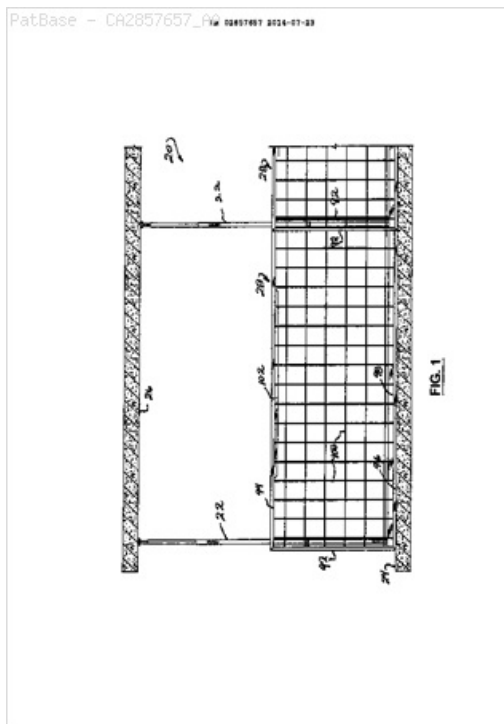
Title: GUARD RAIL SAFETY SYSTEM

Abstract: A support **post** and safety fence assembly in which the **post** has a telescoping inner and outer tube and is supported on a threaded internal shaft coupled to a floor engaging end and ceiling engaging end preferably formed with claws that have a number of sharp penetrating points for firm engagement with a support surface. In one embodiment, a gravity lock assembly is provided for fixing the relative position of the inner and outer tubes. Dynamic adjustability of the support **post** is provided by internal compression springs.

Classifications:

International (IPC 8-9): E04G21/24 E04G21/32 E04H17/14 E04H17/20 (Advanced/Invention)

CPC: E04G25/00 E04F2011/187 E04G21/3233 E04G25/06 E04G2005/148 E04G2025/006



Family:

Publication number	Publication date	Application number	Application date
CA2857657 AA	20060128	CA20042857657	20040728

Priority:

CA20042475997 20040728 CA20042803836 20040728 CA20042857657 20040728
CA20142803836 20141022

Probable Assignee: MELIC JONATHON JONNY

Assignee(s): (std): MELIC JONATHON JONNY

Assignee(s): MELIC JONATHON JONNYP.O. BOX 162GRIMSBYO1L3M 4G3CA

Inventor(s): (std): MELIC JONATHON JONNY

Inventor(s): MELIC JONATHON JONNYP.O. BOX 162GRIMSBYO1L3M 4G3CA

Agent(s): RIDOUT AND MAYBEE LLP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2857657 AA	20060128	LSPB	+	published / reissued	
CA2857657 AA	20141028	LSSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20140723
CA2857657 AA	20170627	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20170516

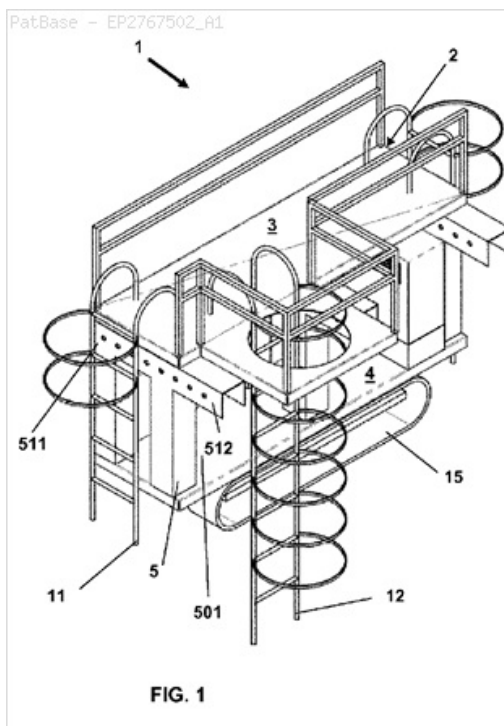
Title: SELF-MOVING CAR, PARTICULARLY SUITABLE TO SUPPORT SUSPENDED SCAFFOLDING VOITURE AUTO-MOBILE, PARTICULIEREMENT ADAPTEE POUR SOUTENIR UN ECHAFAUDAGE SUSPEND

Abstract: A self-moving car (1) for assembling and using suspended scaffoldings or platforms, comprising: - a bearing structure (2) in metal frame, defining a raised trampling work floor (3) and bearing supporting beams (51-71) projecting in a cantilevered manner and which can be connected directly to the scaffolding; and - tracked-type locomotion means (15), whereon the bearing structure (2) is mounted, wherein the whole configuration is so as to allow processings on scaffoldings arranged both above and below the trampling work floor (3) (Fig. 1).

Classifications:

International (IPC 8-9): B66F11/04 E04G1/24
E04G3/34 (Advanced/Invention)

CPC: B66F11/04 E04G3/34 E01D19/106 E04G2001/244
E04G2003/283



Family:

Publication number	Publication date	Application number	Application date
EP2767502 A1	20140820	EP20140154951	20140213
ITRM20130084 A1	20140814	IT2013RM00084	20130213

Priority:

IT2013RM00084 20130213

Probable Assignee: SFC IMPRESA S R L S

Assignee(s): (std): SFC IMPRESA S R L S

Assignee(s): SFC IMPRESA SRLS

Inventor(s): (std): CARRARO STEFANIA

Agent(s): PAPA ELISABETTA

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO
PL PT RO RS SE SI SK SM TR

Legal status (INPADOC)

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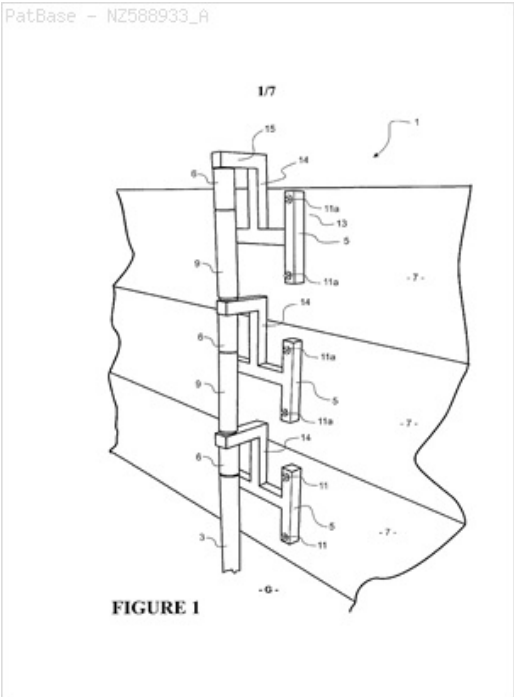
Patent	Date recorded	Event group	Code	Event	Details
EP2767502 A1	20140820	LSPB	+	published / reissued	
EP2767502 A1	20140820	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20140213
EP2767502 A1	20150826	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20150221
ITRM20130084 A1	20140814	LSPB	+	published / reissued	

Title: Boxing support for supporting vertical boxing with bracket pivotable supported on ground anchor for pivoting about upright axis

Abstract: The boxing support 1 is for supporting boxing 7 in a vertical plane during laying of a poured concrete foundation and has: a ground anchor 3 having a ground anchor portion and a bracket supporting portion; a boxing support bracket 5 pivotally mounted on the bracket supporting portion so that the at least one boxing support bracket is pivotable about an upright axis and the ground anchor can accommodate downward vertical loading from the bracket 5. Further brackets 5 can be stacked as shown.

Classifications:

International (IPC 8-9): E04G11/06 E04G17/14 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
NZ588933 A	20111222	NZ20100588933	20101101

Priority:

NZ20100588933 20101101

Probable Assignee:

SKIDROC HOLDINGS LTD

Assignee(s): (std):

SKIDROC HOLDINGS LTD

Assignee(s):

SKIDROC HOLDINGS LIMITED

Inventor(s): (std):

HURIA MARK THOMAS

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
NZ588933 A	20111222	LSPB	+	published / reissued	
NZ588933 A	20120427	LSGT	+PSEA	PATENT SEALED	
NZ588933 A	20140926	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 7 YEARS UNTIL 01 NOV 2030 BY AJ PARK EFFECTIVE DATE : 20140909
NZ588933 A	20140926	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 01 NOV 2023 BY AJ PARK EFFECTIVE DATE : 20140909
NZ588933 A	20140926	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 01 NOV 2017 BY AJ PARK EFFECTIVE DATE : 20140909
NZ588933 A	20140926	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 01 NOV 2020 BY AJ PARK EFFECTIVE DATE : 20140909

Title: SAFETY NET SYSTEM

Abstract: A safety net system for multi-story building construction includes a plurality of **post** assemblies spaced around the perimeter of the building, each with a horizontal shaft at its lower end pivoted to a bracket attached to a lower floor of the building, and a safety net suspended between the outer, free ends of the **post** assemblies and the adjacent upper floor of the building. The horizontal shaft at the inner end of each **post** assembly is received in annular bearings having inner and outer sleeves and an elastic core therebetween. The bearings are releasably clamped about the horizontal shaft to restrain the **post** assembly against rotation and lock it in an upright, stowed position or an inclined, deployed position. The resiliency of the elastic core permits limited, upward rotation of the **post** assembly to absorb shocks from falling debris.

Classifications:

International (IPC 8-9): E04G21/32 (Advanced/Invention);
E04G21/32 (Core/Invention)

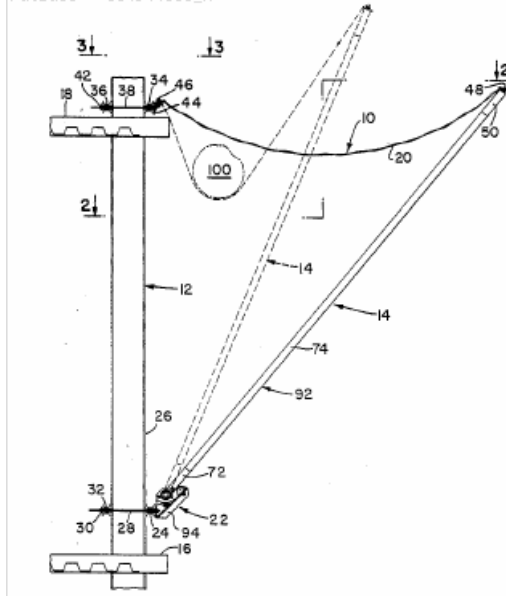
International (IPC 1-7): E04G21/32

CPC: E04G21/3266 E04G21/3261

European: E04G21/32F

US: 182/138 182/82

PatBase - US4944365_A

**Family:**

Publication number	Publication date	Application number	Application date
US4944365 A	19900731	US19890388580	19890801

Priority:

US19890388580 19890801

Probable Assignee: UNIVERSAL BUILDERS SUPPLY INC

Assignee(s): (std): UNIVERSAL BUILDERS SUPPLY INC

Assignee(s): UNIVERSAL BUILDERS SUPPLY INC A NEW YORK CORP

Inventor(s): (std): SHALDERS ALAN J

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4944365 A	19900731	LSGT	+	granted / extensions (spc, cpc, pte)	
US4944365 A	19890801	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL BUILDERS SUPPLY, INC., 216 SOUTH TERRACE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:SHALDERS, ALAN J.; REEL/FRAME:005112/0735 EFFECTIVE DATE : 19890731
US4944365 A	19900606	LSGT	PAT1	Patented Case	
US4944365 A	19940103	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4944365 A	19980802	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4944365 A	19981013	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19980731
US4944365 A	20180129	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4944365 A	20180129	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

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PEXP

Calculated Patent Term
Expiry