

Search history

Search 1: FT=(MASONRY~ AND BUILDING~ AND OPENWORK~ WALL~) (Results 0)

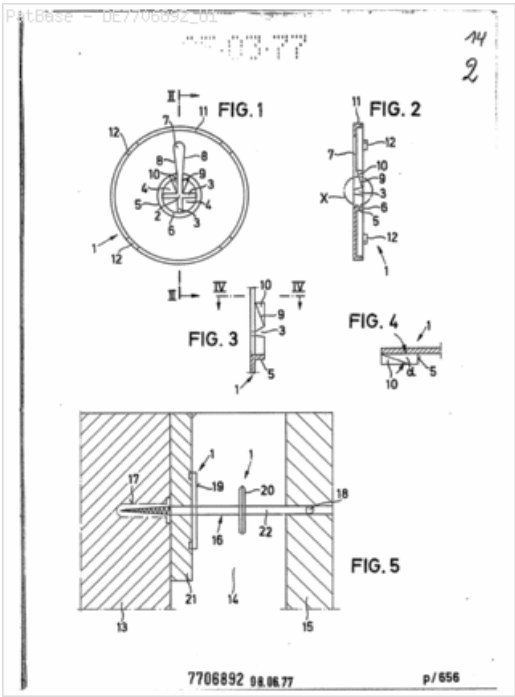
Search 2: FT=(MASONRY~ AND BUILDING~ AND OPENWORK~ AND WALL~) (Results 69)

Title: SCHEIBENKOERPER, INSBESONDERE FUER DRAHTANKER SCHEIBENKOERPER, ESPECIALLY FOR WIRE ANCHOR
(Machine translation)

Abstract: Source: DE7706892U1 [DE] (Claim 1) 1. Scheibenkoerper, insbesondere fuer Drahtanker mit einer mittigen oeffnung zur Aufnahme des Ankerschaftes, von der aus radial verlaufende Schlitze ausgehen, d a - d u r c h g e k e n n z e i e h n e t, dass ein Schlitz (3) eine Schlitzverlaengerung (7) mit divergierenden Schlitzraendern (8) aufweist, wobei der dem Rand des Scheibenkoerpers (1) zugewandte Endbereich der Schlitz- verlaengerung (7) eine zumindest dem Durchmesser des Ankers entsprechende Schlitzbreite aufweist.

Machine translation: (Claim 1) 1 Scheibenkoerper, particularly for wire armature with a central opening for receiving the anchor shank, start from the radially extending slits, d HNEt a-durchgekennz eie that a slot (3) a Schlitzverlaengerung (7) with divergent Schlitzraendern (8), wherein the the edge of the Scheibenkoerpers (1) facing the end of the slot extension (7) has an at least equivalent to the diameter of the anchor slot width.

Classifications:
International (IPC 8-9): E04B2/30 E04F13/08 (Advanced/Invention);
E04B2/28 E04F13/08 (Core/Invention)
International (IPC 1-7): E04B2/30 E04F13/08



Family:

Publication number	Publication date	Application number	Application date
DE7706892 U1	19770608	DE19770006892U	19770305

Priority:

DE19770006892U 19770305

Probable Assignee: REUSS GMBH AND CO KG
Assignee(s): (std): REUSS GMBH AND CO KG
Assignee(s): REUSS GMBH AND CO KG 5600 WUPPERTAL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE7706892 U1	19770608	LSGT	+	granted / extensions (spc, cpc, pte)	

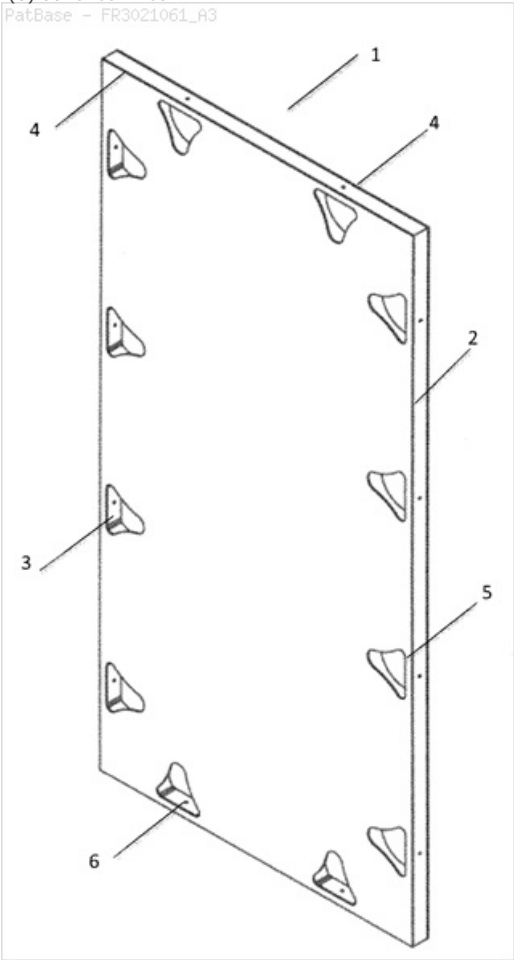
Title: PANNEAU SANDWICH MODULAIRE ET SES MOYENS DE FIXATION RAPIDE

Abstract: Source: FR3021061B [FR] L'activite inventive renseigne sur un procede de fabrication d'un panneau sandwich modulaire amovible et ses moyens d'assemblages et de fixations rapides destine aux decors de cinema ou de theatre, a la construction de cloisons separatives ou a des modules spatiaux pour le batiment. Panneau sandwich modulaire et ses moyens de fixation rapide (1) est forme d'une ceinture en bois massif (2), d'une ame en polystyrene expanse M1 classe 4 (20 kg/m3) (3) et de deux parements (4) en medium de contre-plaque, pourvu d'ouvertures ergonomiques (5) sur le pourtour peripherique pour acceder aux perforations d'interconnexion (6) dans les rives.

Classifications:

International (IPC 8-9): E04C2/24 (Advanced/Invention)

CPC: E04C2/243 E04C2/386



Family:

Publication number	Publication date	Application number	Application date
FR3021061 A3	20151120	FR20140001069	20140513
FR3021061 B3	20170901	FR20140001069	20140513

Priority:

FR20140001069 20140513

Probable Assignee:

CRUCIFORMES

Assignee(s): (std):

CRUCIFORMES ; MARTEL LAURENT

Assignee(s):

LAURENT MARTEL

Inventor(s): (std):

MARTEL LAURENT

Inventor(s):

LAURENT MARTEL

Agent(s):

GUY LAZZARINO; CRUCIFORMES

Legal status (INPADOC)

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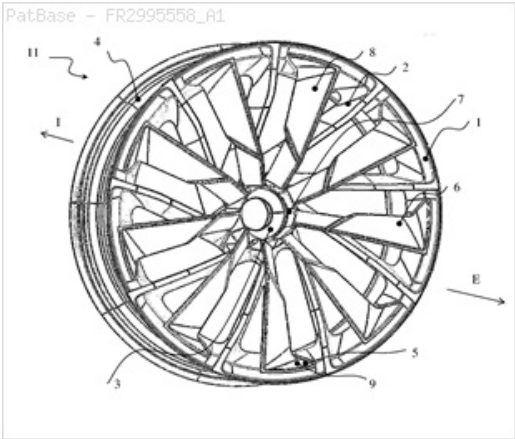
Patent	Date recorded	Event group	Code	Event	Details
FR3021061 A3	20151120	LSPB	+	published / reissued	
FR3021061 A3	20150520	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 2
FR3021061 A3	20160511	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 3
FR3021061 A3	20170425	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

FR3021061 B3	20170901	LSGT	+	granted / extensions (spc, cpc, pte)		
FR3021061 B3	20180519	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 5	
FR3021061 B3	20190604	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 6	
FR3021061 B3	20200513	PEXP		Calculated Patent Term Expiry		

Title: CAR WHEEL, HAS WHEEL PART COMPRISING WHEEL HUB ELEMENT AND BRANCHES THAT PROJECT AROUND HUB ELEMENT TOWARD RIM, WHERE BRANCHES ARE POSITIONED ALTERNATELY WITH BRANCHES OF ANOTHER WHEEL PART THAT IS MADE FROM ALUMINUM OR ALUMINUM ALLOY

Abstract: The wheel (11) has a reinforcement wheel part (1) i.e. slit-and-tongue joint, comprising a rim (4), and another wheel part (6) assembled with the former wheel part to be used to as a reinforcement, which is contained in an interior volume delimited by the rim. The former wheel part has hollow-web branches (2) connecting the rim to a wheel hub element (3). The latter wheel part comprises another wheel hub element (7) and branches (8) projecting around the latter hub element toward the rim. The branches of the latter wheel part are positioned alternately with the branches of the former part. The latter wheel part is made from a lighter material, carbon or a carbon containing composite or Kevlar (RTM: para-aramid synthetic fiber).

Classifications:
International (IPC 8-9): B60B1/00 (Advanced/Invention)
CPC: B60B3/10 B60B3/12 B60B5/02 B60B7/002 B60B7/0086 B60B2310/318 B60B2360/104 B60B2360/106 B60B2360/34 B60B2360/341 B60B2360/3416 B60B2360/36 B60B2900/111 B60B3/08



Family:

Publication number	Publication date	Application number	Application date
FR2995558 A1	20140321	FR20120058661	20120914

Priority:

FR20120058661 20120914

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA
Assignee(s): (std) PEUGEOT CITROEN AUTOMOBILES SA
Inventor(s): (std) PISSONNIER YANN
Inventor(s): YANN PISSONNIER
Agent(s): PEUGEOT CITROEN AUTOMOBILES SA

Legal status (INPADOC)

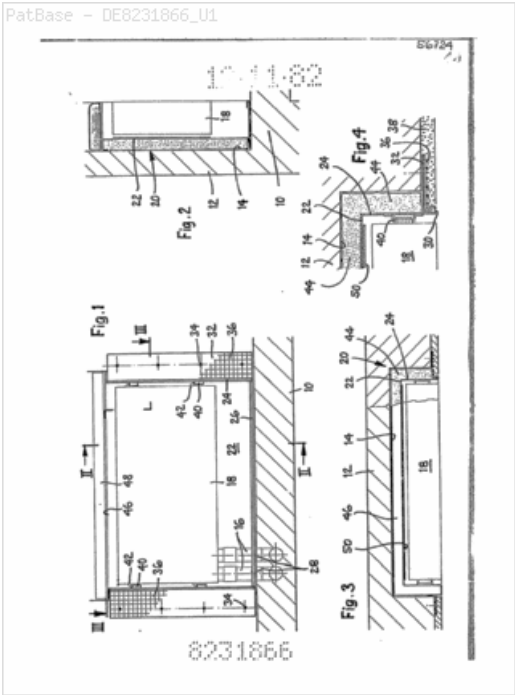
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Patent	Date recorded	Event group	Code	Event	Details
FR2995558 A1	20140321	LSPB	+	published / reissued	
FR2995558 A1	20130920	LSFE	PLFP	Fee Payment (FEE PAYMENT)	PAYMENT DATE : 20130920 YEAR OF FEE PAYMENT : 2
FR2995558 A1	20150218	LSRV	PLAR	APPLICATION REFUSED	

Abstract: Source: DE8231866U1 [DE] (Claim 1) 1. Auskleidung fuer eine Heizkoerpernische (14) mit einer Isolierstoffschicht (44), dadurch gekennzeichnet, dass die Isolierstoffschicht (44) an einem selbsttragenden Wandelement (d) angeordnet ist, das Aufhaengungen (40) fuer einen Heizkoerper (18) aufweist.

Machine translation: (Claim 1) 1 Lining for a Heizkoerpernische (14) with a Isolierstoffschicht (44), characterized in that the Isolierstoffschicht (44) to a self-supporting **wall** element (d) is arranged, the suspension brackets (40) for a radiator (18) has.

Classifications:
International (IPC 8-9): F28F9/00 (Advanced/Invention);
F28F9/00 (Core/Invention)
International (IPC 1-7): F28F9/00



Family:

Publication number	Publication date	Application number	Application date
DE8231866 U1	19830609	DE19820331866U	19821112
Probable Assignee: HUETTLIN HERBERT 7853 STEINEN DE			
Assignee(s): (std): HUETTLIN HERBERT 7853 STEINEN DE			

Legal status (INPADOC)
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Patent	Date recorded	Event group	Code	Event	Details
DE8231866 U1	19830609	LSGT	+	granted / extensions (spc, cpc, pte)	

Abstract: Source: FR1572217A [FR] (Claim 1) 1. Un cadre indeformable en deux montants et deux traverses, a son panneau entre son quadrilatere interieur, garni de bandes metalliques ajourees;

Machine translation: (Claim 1) 1. Foam and a framework in two amounts and two ties, the panel has between his quadrilateral inside, topped with strips of metal **openwork**

Classifications:

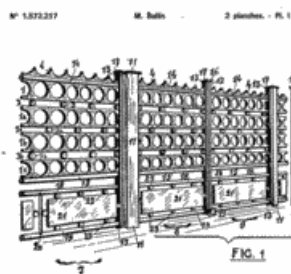
International (IPC 8-9): E04F11/18 E04H17/16 (Advanced/Invention);
E04F11/18 E04H17/16 (Core/Invention)

International (IPC 1-7): E04H17/14

CPC: E04F11/1851 E04H17/165

European: E04F11/18F6 E04H17/16C

PatBase - FR1572217_A



Family:

Publication number	Publication date	Application number	Application date
FR1572217 A	19690627	FR19680136925	19680122

Priority:

FR19680136925 19680122

Legal status (INPADOC)

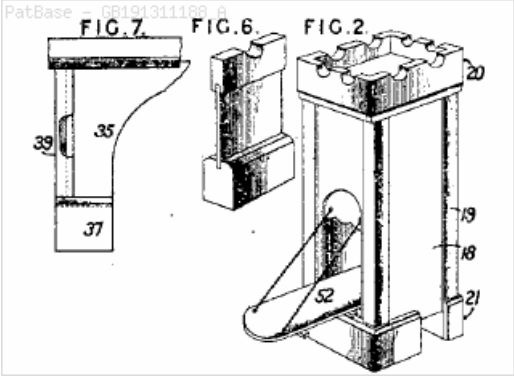
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Patent	Date recorded	Event group	Code	Event	Details
FR1572217 A	19690627	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1572217 A	19750314	LSLE	-ST	NOTIFICATION OF LAPSE	
FR1572217 A	19880122	PEXP		Calculated Patent Term Expiry	

Title: Improvements in Toys.

Abstract: 11,188. Schwarz, O. C. May 13. **Building**-blocks.-Relates to. toy **building**- elements comprising **wall** units, posts, and towers, adapted to be arranged side by side in matched relation, the **wall** units and towers being composed of separate parts detachably fitted together. Fig. 2 shows a tower having grooved posts 19, panels 18, and detachable top and bottom parts 20, 21. An opening in the base of the tower permits an adjoining **wall** section to fit up against the tower panel. One of the panels is fitted with a counterbalanced draw-bridge 52. Fig. 6 illustrates a **wall** unit, comprising grooved top and bottom parts and an intermediate panel, and Fig. 7 part of a gateway. The panel 35, Fig. 7, is arched and there are two bottom parts 37, the gateway being completed by side posts 39. Additional **wall** units of lattice-work are also used, their side pieces overlapping the panels of adjoining sections. The parts may be coated in imitation of stonework.

Classifications:
International (IPC 8-9): A63H33/04 (Advanced/Invention);
A63H33/04 (Core/Invention)
CPC: A63H33/044
European: A63H33/04H



Family:

Publication number	Publication date	Application number	Application date
GB191311188 A	19130911		00000000

Priority:

19130513

Probable Assignee:	SCHWARZ OTTO CARL
Assignee(s): (std):	SCHWARZ OTTO CARL
Assignee(s):	OTTO CARL SCHWARZ
Inventor(s): (std):	SCHWARZ OTTO CARL
Inventor(s):	OTTO CARL SCHWARZ

Legal status (INPADOC)

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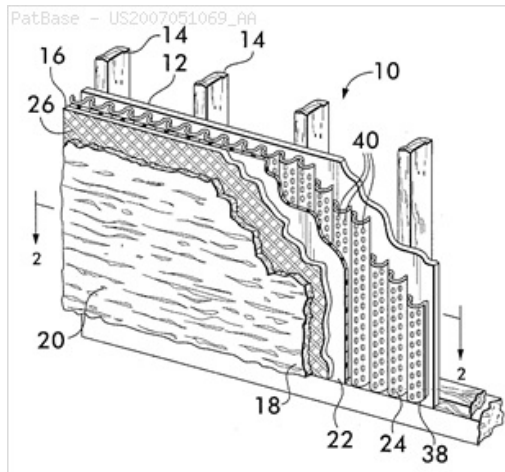
Patent	Date recorded	Event group	Code	Event	Details
GB191311188 A	19130911	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: COMPOSITE **BUILDING** MATERIAL FOR CEMENTITIOUS MATERIAL **WALL** ASSEMBLY

Abstract: A composite **building** material includes at least one membrane, a spacer material bonded to one face of the membrane, and a lath bonded to an opposite face of the membrane. The components of the composite **building** material are installed simultaneously as an integral unit within a **wall**, roof or like assembly. The lath is preferably made of plastic or metal and is used to support cementitious material such as stucco, mortar, plaster, concrete and the like. The spacer material provides ventilation and drainage passages and is preferably provided as separate or integrally-formed spacer elements, an **openwork** mat, a corrugated material, or the like. Preferably, the membrane is **building** paper, tar paper, roofing felt, house-wrap material or like weather-resistive material. A **wall**/roof assembly and a method of assembling a **wall**/roof structure are also disclosed.

Classifications:

International (IPC 8-9): B32B13/00 B32B7/08 D06N5/00 E04C2/00 E04C2/54 (Advanced/Invention);
E04C2/00 E04C2/54 (Core/Invention)
CPC: E04B1/7069 E04B2/707 E04F13/04
European: E04B1/70V E04B2/70C1 E04F13/04
US: 52/506.01 52/506.010S 52/782.1 52/782.100P



Family:

Publication number	Publication date	Application number	Application date
CA2559160 AA	20070307	CA20062559160	20060906
US2007051069 AA	20070308	US20060470427	20060906

Priority:

US20050714882P 20050907 CA20062559160 20060906 US20060470427 20060906

Probable Assignee: BENJAMIN OBDYKE INC

Assignee(s): (std): BENJAMIN OBDYKE INC ; OBDYKE BENJAMIN INC

Assignee(s): GRIMES MELISSA

Inventor(s): (std): GRIMES MELISSA

Agent(s): FINLAYSON AND SINGLEHURST; HOWSON AND HOWSON

Legal status (INPADOC)

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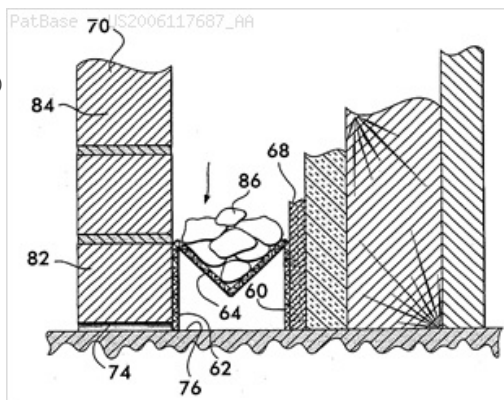
Patent	Date recorded	Event group	Code	Event	Details
CA2559160 AA	20070307	LSPB	+	published / reissued	
CA2559160 AA	20100907	LSLE	-FZDE	DEAD	
US2007051069 AA	20070308	LSPB	+	published / reissued	
US2007051069 AA	20060908	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENJAMIN OBDYKE INCORPORATED, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:GRIMES, MELISSA; REEL/FRAME:018238/0401 EFFECTIVE DATE : 20051021
US2007051069 AA	20070913	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENJAMIN OBDYKE INCORPORATED, PENNSYLVANIA OLDPARTY : MERGER; ASSIGNOR:BENJAMIN OBDYKE INCORPORATED; REEL/FRAME:019817/0605 EFFECTIVE DATE : 20070831
US2007051069 AA	20090413	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	

Title: **MASONRY** CAVITY **WALL** AND METHOD OF ASSEMBLY

Abstract: A mortar and debris collection device for use within a cavity **wall** to prevent the blockage of weep holes at the base of the **wall**. The cavity **wall** assembly includes a **masonry wall**, an adjacent inner **wall**, a **wall** cavity therebetween, and a free-standing elongate strip of **openwork** material located within the cavity forming a debris collection surface a spaced distance above a base surface of the cavity. Preferably, the **openwork** material is inserted and positioned within the cavity after the inner **wall** and only a base portion of the outer **masonry wall** is constructed. Thereafter, the upper portion of the outer **masonry wall** is constructed and any mortar or debris falling into the cavity is caught and supported on the debris collection surface.

Classifications:

International (IPC 8-9): E02D19/00 E04B1/70 E04B2/28 E04C2/20 E04C2/30 E04G21/24 (Advanced/Invention);
E02D19/00 E04B1/70 E04C2/10 E04C2/30 E04G21/24 (Core/Invention)
CPC: E04B1/7061 E04B2/707 E04B2002/565
European: E04B1/70S6 E04B2/70C1
US: 52/169.5 52/302.1 52/302.100 52/302.3 52/309.4 52/717.03 52/741.3 521/695 523/23



Family:

Publication number	Publication date	Application number	Application date
CA2527467 AA	20060523	CA20052527467	20051122
US2006117687 AA	20060608	US20050274685	20051115
US2009126290 AA	20090521	US20090357599	20090122
US7526900 BB	20090505	US20050274685	20051115
US7810292 BB	20101012	US20090357599	20090122

Priority:

US20040630390P 20041123 US20050274685 20051115 CA20052527467 20051122
US20090357599 20090122

Probable Assignee: BENJAMIN OBDYKE INC

Assignee(s): (std): BENJAMIN OBDYKE INC ; OBDYKE BENJAMIN INC

Assignee(s): RANDELLO NATHAN L ; COULTON MICHAEL S ; EHRMAN GEOFFREY N

Inventor(s): (std): EHRMAN GEOFFREY N ; COULTON MICHAEL S ; RANDELLO NATHAN L

Inventor(s): RANDELLO NATHAN ; EHRMAN GEOFFREY ; COULTON MICHAEL

Agent(s): FINLAYSON AND SINGLEHURST; HOWSON AND HOWSON; HOWSON AND HOWSON LLP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2527467 AA	20060523	LSPB	+	published / reissued	
CA2527467 AA	20101122	LSLE	-FZDE	DEAD	
US2006117687 AA	20060608	LSPB	+	published / reissued	
US2006117687 AA	20070913	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENJAMIN OBDYKE INCORPORATED, PENNSYLVANIA OLDPARTY : MERGER; ASSIGNOR: BENJAMIN OBDYKE INCORPORATED; REEL/FRAME: 019817/0605 EFFECTIVE DATE : 20070831
US2006117687 AA	20090415	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2009126290 AA	20090521	LSPB	+	published / reissued	
US2009126290 AA	20100922	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7526900 BB	20090505	LSGT	+	granted / extensions (spc, cpc, pte)	
US7526900 BB	20060104	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : BENJAMIN OBDYKE INCORPORATED, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EHRMAN, GEOFFREY N.; COULTON, MICHAEL S.; RANDELLO, NATHAN L.; REEL/FRAME:017162/0597 EFFECTIVE DATE : 20051111	
US7526900 BB	20090415	LSGT	PAT1	Patented Case		
US7526900 BB	20121105	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7526900 BB	20161020	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US7526900 BB	20270216	PEXP			Calculated Patent Term Expiry (PTA 458 days)	
US7810292 BB	20101012	LSGT	+	granted / extensions (spc, cpc, pte)		
US7810292 BB	20090122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENJAMIN OBDYKE INCORPORATED, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EHRMAN, GEOFFREY N.; COULTON, MICHAEL S.; RANDELLO, NATHAN L.; REEL/FRAME:022152/0463 EFFECTIVE DATE : 20051111	
US7810292 BB	20090128	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENJAMIN OBDYKE INCORPORATED, PENNSYLVANIA OLDPARTY : MERGER; ASSIGNOR:BENJAMIN OBDYKE INCORPORATED; REEL/FRAME:022187/0341 EFFECTIVE DATE : 20070831	
US7810292 BB	20100922	LSGT	PAT1	Patented Case		
US7810292 BB	20140312	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7810292 BB	20180403	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US7810292 BB	20290319	PEXP			Calculated Patent Term Expiry (PTA 56 days)	

Title: Perfectionnements aux silencieux pour banc d'essai de moteurs a helice Improvements on silent rig engines propeller (Machine translation)

Abstract: Source: FR1512615A [FR] (Claim 1) 1. Perfectionnements aux silencieux pour banc d'essai de moteurs a helice, constitue d'un couloir divise en une cellule centrale d'essai prece- dee par une entree et suivie d'une sortie caracterises par le fait que l'entree et la sortie sont constituees par des cylindres formant un ensemble amovible, dans lesquels sont disposes des elements insonorisants, le cylindre d'entree. se raccordant au voisinage du diametre exterieur de l'helice par un tronc de cone susceptible de s'emboiter dans le cylindre en executant un deplacement horizontal de maniere a pouvoir laisser un acces a l'helice.

Machine translation: (Claim 1) 1. Improvements on silent rig engines propeller, a corridor is divided into a central cell test-dee by a previous input and output followed by a CHARACTERIZED by the fact that the input and output are consist of cylinders forming a removable assembly, in which soundproofing elements are arranged, the inlet cylinder. connecting adjacent to the outer diameter of the helix by a truncated cone likely to follow suit in the cylinder by executing a horizontal displacement so as to be able to leave an access to the propeller.

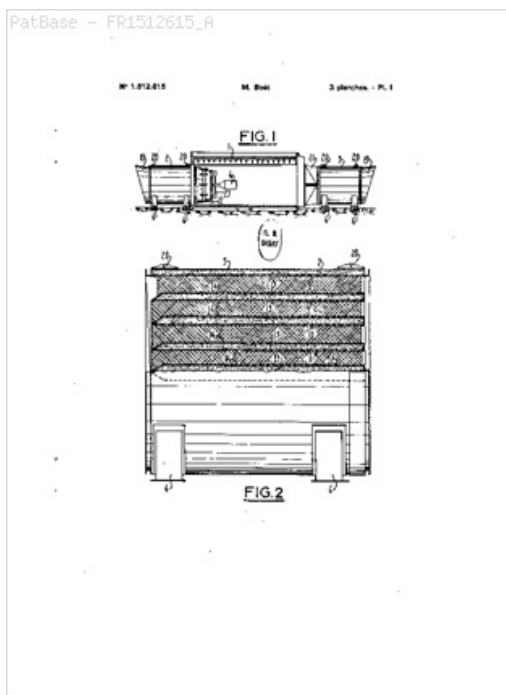
Classifications:

International (IPC 8-9): B64F1/26 (Advanced/Invention)

International (IPC 1-7): G01M15/00

CPC: B64F1/26

European: B64F1/26



Family:

Publication number	Publication date	Application number	Application date
FR1512615 A	19680209	FR19665918806	19661229

Priority:

FR19665918806 19661229

Inventor(s): (std):

BOET ANDRE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR1512615 A	19680209	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1512615 A	19861229	PEXP		Calculated Patent Term Expiry	

Title: PROCEDE DE CONSTRUCTION DE BATIMENTS ET BATIMENT REALISE SUIVANT CE PROCEDE **BUILDING** CONSTRUCTION AND **BUILDING** PROCESS MADE FOLLOWING THIS METHOD (Machine translation)

Abstract: Source: FR1523474A [FR] (Claim 1) 1. Un procede de construction de batiments consistant, pour fabriquer chacune des cloisons dudit batiment, a realiser une ossature en beton comprenant au moins deux elements de support paralleles et situes dans un meme plan, a relier lesdits elements supports par au moins une feuille de metal ajoure pour former au moins une nappe plane s'etendant entre lesdits elements sur toute la surface separant ceux-ci, a fixer ladite feuille a chacun desdits elements supports et a enduire la feuille metallique, a partir de l'une des faces de celle-ci, d'au moins une couche continue de mortier formant paroi, le passage d'une partie du mortier de ladite couche sur la face opposee de la feuille metallique au travers des orifices de celle-ci, assurant l'ancrage du mortier sur ladite feuille.

Machine translation: (Claim 1) 1. A method of **building** construction consisting, for each make of that **building** partition **walls**, a concrete realize a frame comprising two parallel support members and situated in the same plane, a connecting said media elements by at least one sheet metal **openwork** to form at least one ply extending between said flat over the entire surface elements separating them, to fix said sheet media to each of said coating and the metal foil, from one side of thereof, at least one continuous layer of mortar forming **wall**, the passage of a portion of said layer of mortar on the opposite side of the sheet metal through the orifices thereof, ensuring the anchoring of mortar on said sheet.

Classifications:

International (IPC 8-9): E04B1/16 E04B2/64

E04F13/02 (Advanced/Invention);

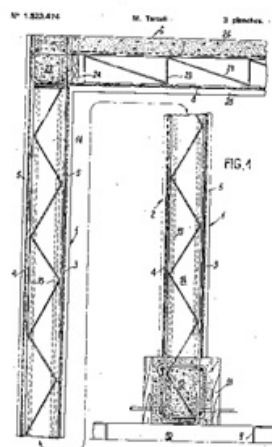
E04B1/16 E04B2/64 E04F13/02 (Core/Invention)

International (IPC 1-7): E04B1/16

CPC: E04B1/16 E04B2/64 E04F13/02

European: E04B1/16 E04B2/64 E04F13/02

PatBase - FR1523474_A



Family:

Publication number	Publication date	Application number	Application date
FR1523474 A	19680503	FR19670100184	19670324

Priority:

FR19670100184 19670324

Inventor(s): (std):

TARCALI GEORGES

Legal status (INPADOC)

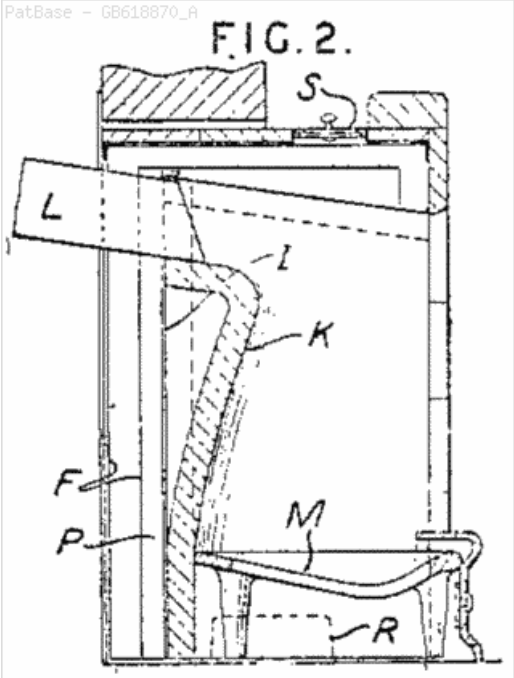
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Patent	Date recorded	Event group	Code	Event	Details
FR1523474 A	19680503	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1523474 A	19870324	PEXP		Calculated Patent Term Expiry	

Title: Improvements in or relating to domestic stoves

Abstract: 4312. [Class 64(iii)] A portable self-contained air heating stove unit which may be used in conjunction with a normal open fireplace or in any position where a flue is available comprises an open fronted box-like structure provided with an internal grate and a rearwardly disposed fume outlet and having hollow top, side, and back walls, which collectively define the air heating chamber and which are at least in part exposed to the surrounding air to heat it by conduction. The outer casing and inner shell F and I respectively; define a cavity P into which air is admitted at R and after heating escapes through openings S. The inner shell accommodates a refractory fire-back K and has an outlet pipe L to carry fumes from solid fuel burnt on grate M. The stove may have handles for carrying it from room to room, and doors enable it to be carried with a fire in the grate. A separate damper-controlled flue extending through chamber P from the back of the ashpit and terminating adjacent to fume outlet L may be included to provide a down-draught through the fire.

Classifications:
International (IPC 8-9): F24B1/18 (Advanced/Invention); F24B1/00 (Core/Invention)
International (IPC 1-7): F24B1/18
CPC: F24B1/18
European: F24B1/18



Family:

Publication number	Publication date	Application number	Application date
GB618870 A	19490301	GB19460004312	19460212

Priority:

GB19460004312 19460212

Probable Assignee: ERIC LEYLAND LOWE
Assignee(s): (std): BAILEY HARRY ; ERIC LEYLAND LOWE
Assignee(s): HARRY BAILEY

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB618870 A	19490301	LSGT	+	granted / extensions (spc, cpc, pte)	
GB618870 A	19660212	PEXP		Calculated Patent Term Expiry	

Title: STRUCTURAL COMPONENT FOR AGGLOMERATED OR MASSIVE WOOD BEARING **WALL** IN E.G. PASSIVE **BUILDING**, HAS CONCRETE BLOCKS AND PLANKS FORMED WITH SAME SECTIONS INTEGRATING INSULATING CORE INSTALLED IN ZIGZAG MANNER AT UPPER AND LOWER SURFACES

Abstract: The component has concrete blocks and planks (1) integrating an insulating core to folded or installed in zigzag manner one another at upper surfaces and lower surfaces. The insulating cores are sandwiched between multiple derived or wood strips/sections. The short block or wood rectangle parallelepiped plank is formed with variable thickness and height and same sections. Each insulator core is integrated to obtain and increase a heat insulation coefficient that is complementary to the wood thermal insulation to realize **walls** for passive **building**.

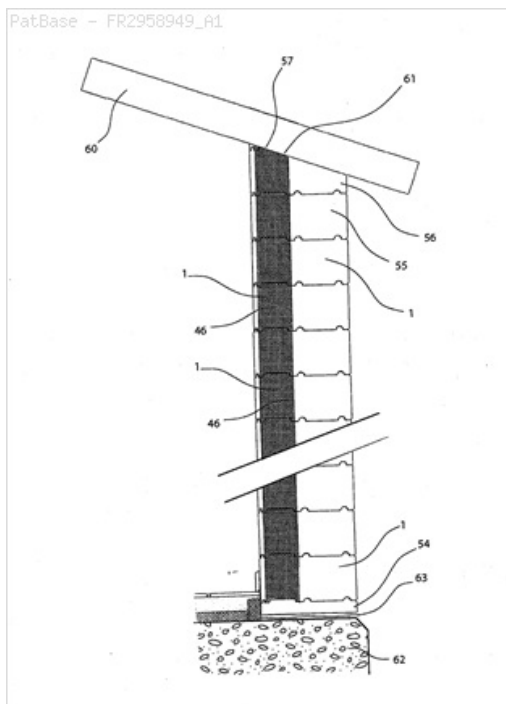
Classifications:

International (IPC 8-9): E04B2/08 E04C1/40 E04C3/12

E04C3/29 (Advanced/Invention)

CPC: E04B2/704 E04B2/702 E04B2002/0226 E04B2002/0234

European: E04B1/14 E04B2/70B1 E04B2/70B3 P04B2/02M1F P04B2/02M2A



Family:

Publication number	Publication date	Application number	Application date
FR2958949 A1	20111021	FR20100001615	20100416

Priority:

FR20100001615 20100416

Probable Assignee:

BIBAY DAVID STANLEY LUDOVIC

Assignee(s): (std):

BIBAY DAVID STANLEY LUDOVIC

Assignee(s):

DAVID STANLEY LUDOVIC BIBAY

Inventor(s): (std):

BIBAY DAVID STANLEY LUDOVIC

Inventor(s):

DAVID STANLEY LUDOVIC BIBAY

Agent(s):

DAVID BIBAY

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2958949 A1	20111021	LSPB	+	published / reissued	
FR2958949 A1	20120411	LSFE	PLFP	Fee Payment (FEE PAYMENT)	PAYMENT DATE : 20120411 YEAR OF FEE PAYMENT : 3
FR2958949 A1	20130430	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2958949 A1	20140131	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20131231

Title: LINER FOR CONCRETE FORMS

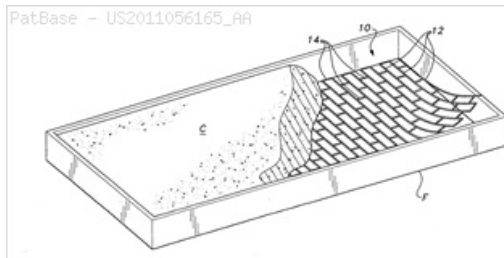
Abstract: The liner for concrete forms is a plastic matrix for simulating the mortar grooves conventionally formed in **masonry** construction. The liner is placed within a concrete form, and the concrete is poured thereover. The form is removed after the concrete sets, thereby exposing the surface with the liner still remaining therein. The surface of the concrete panel may then be treated as desired to produce a surface finish resembling brick or other **masonry** construction, e.g., sandblasted or coated with stucco or other material, with the liner remaining in place to protect the simulated mortar grooves. Once the surface of the concrete panel has been treated as desired, the liner is removed to expose the natural concrete surface within the grooves, with this natural concrete surface closely resembling the mortar joints in a **masonry wall**.

Classifications:**International (IPC 8-9):** B28B11/24 B28B7/36 B44F7/00

E04B5/04 (Advanced/Invention)

CPC: B28B7/0026 B28B7/0073 B28B7/364 B28B11/001 B28B11/08**European:** B28B7/00A7D B28B7/00F3 B28B7/36C L28B11/00B

L28B11/08

US: 249/16 249/16S 249/214 52/314 52/605 52/742.14 52/742.140P 52/745.19 52/745.190S**Family:**

Publication number	Publication date	Application number	Application date
US2011056165 AA	20110310	US20090654118	20091210
US8201373 BB	20120619	US20090654118	20091210

Priority:

US20090276185P 20090909

US20090654118 20091210

Probable Assignee:

CHARLES JR KENNETH L

Assignee(s): (std):

CHARLES JR KENNETH L

Inventor(s): (std):

CHARLES JR KENNETH L

Agent(s):

RICHARD C

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

Patent	Date recorded	Event group	Code	Event	Details
US2011056165 AA	20110310	LSPB	+	published / reissued	
US8201373 BB	20120619	LSGT	+	granted / extensions (spc, cpc, pte)	
US8201373 BB	20120530	LSGT	PAT1	Patented Case	
US8201373 BB	20160619	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US8201373 BB	20160718	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8201373 BB	20160718	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US8201373 BB	20160809	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160619
US8201373 BB	20300920	PEXP		Calculated Patent Term Expiry (PTA 284 days)	

Title: A TIDYING DEVICE FOR TIDYING BETWEEN TWO BUILT **WALLS**

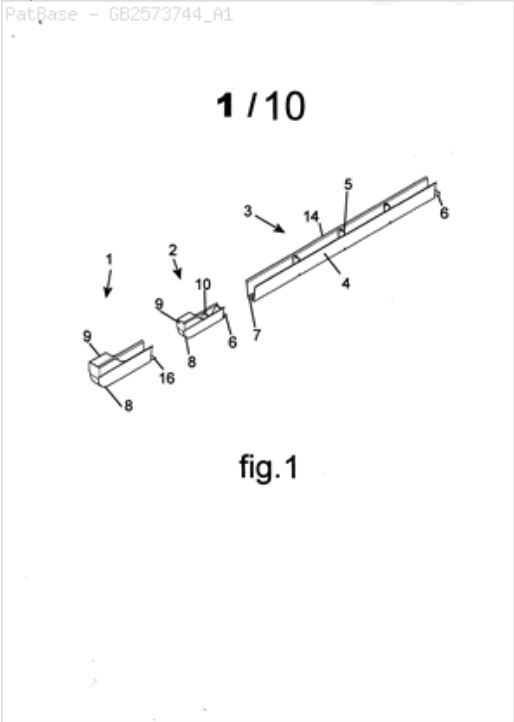
Abstract: A **wall** cavity cleaner tray comprises a tray 4 formed from 900mm sections of hardened plastic for collecting and removing mortar between cavity **walls**. The device has an open top which collects excess mortar. A disruptor device (fig 6b) may also be attached to the tray, and may include a chain (20, fig 6b). The tray may have internal fins 5, and one section may include a scoop 9. The device reduces the risk of mortar bridging the cavity gap and covering the weep holes. The device is extracted each day, cleaned and ready for use the following day

Classifications:

International (IPC 8-9): B08B1/00 B08B9/00

E04B1/70 (Advanced/Invention)

CPC: E04B1/7061 B08B1/008 B08B9/00



Family:

Publication number	Publication date	Application number	Application date
GB201806286 A0	20180530	GB20180006286	20180418
GB2573744 A1	20191120	GB20180006286	20180418

Priority:

GB20180006286 20180418

Probable Assignee: WILLIAMS ASHLEY THOMAS

Assignee(s): (std): ASHLEY THOMAS WILLIAMS ; WILLIAMS ASHLEY THOMAS

Inventor(s): (std): ASHLEY THOMAS WILLIAMS

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB2573744 A1	20191120	LSPB	+	published / reissued	

Title: PREFABRICATED **MASONRY** UNIT, SYSTEM AND METHOD FOR **BUILDING** A JALOUSIE-TYPE SUPPORTING STRUCTURE

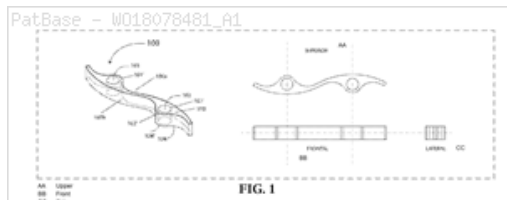
Abstract: The invention relates to a **masonry** unit of the structural prefabricated type, to a method and to a system for **building** a structural **wall** or facade without being confined, relating to stackable jalousie-type construction elements that can be produced from a variety of conventionally used materials such as: cement, concrete blocks, clay, rock, adobe, brick, plastic, wood, metal, composite materials and other suitable materials and combinations of same. The modular **masonry** jalousie-type units are grouped together by means of a shiplap or locking system generating different facade configurations. The design of said jalousie-type **masonry** units allows different facade configurations depending on the rotation of same, either vertically or horizontally, always respecting the position of the vertical holes. In some cases, it allows modulation with jalousie-type **masonry** units of different families. It has a wide variety of shapes and the type of framework defines the level of privacy that can be obtained from one space to another, as well as for ventilation and light transmission and diffusion purposes, which results in the rapid construction of a jalousie-type supporting structure with anti-seismic properties. The designs are created as sets of textures that allow the passage of light and air, some as horizontal holes and others as solid parts which, when grouped together, create spaces between each other for the passage of light and air, generating an environment with play of shadows, lights and ventilation.

Classifications:

International (IPC 8-9): E01D101/22 E04B1/00 E04B1/04 E04B1/62 E04B1/74 E04B2/00 E04B2/02 E04B2/14 E04B2/16 E04C1/00 E04C1/39 E04C5/00 E04C5/16 (Advanced/Invention)

International (IPC 1-7): E04B1/00 E04B1/04 E04B1/62 E04B1/74 E04B2/00 E04B2/02 E04B2/14 E04B2/16 E04C1/00 E04C1/39 E04C5/00 E04C5/16

CPC: E04B1/00 E04B1/04 E04B1/62 E04B1/74 E04B2/00 E04B2/02 E04B2/14 E04B2/16 E04C1/00 E04C1/39 E04C5/00 E04C5/16



Family:

Publication number	Publication date	Application number	Application date
BR112019008383 A2	20190709	BR20191108383	20171014
CO20160003361 A1	20170818	CO20160003361	20161025
MX2019004789 A1	20190812	MX20190004789	20171014
WO18078481 A1	20180503	WO20171B56387	20171014

Priority:

CO20160003361 20161025 WO20171B56387 20171014

Probable Assignee: HURTADO OCHOA HECTOR EDUARDO

Assignee(s): (std): HECTOR EDUARDO HURTADO OCHOA ; HURTADO OCHOA HECTOR EDUARDO

Inventor(s): (std): HECTOR EDUARDO HURTADO OCHOA ; HURTADO OCHOA HECTOR EDUARDO ; RUIZ POSADA OSCAR ALFREDO ; OSCAR ALFREDO RUIZ POSADA

Inventor(s): OSCAR ALFREDO RUIZ POSADO

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

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Patent	Date recorded	Event group	Code	Event	Details
CO20160003361 A1	20170818	LSPB	+	published / reissued	
MX2019004789 A1	20190812	LSPB	+	published / reissued	
WO18078481 A1	20180503	LSPB	+	published / reissued	
WO18078481 A1	20190426	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO18078481 A1	20190709	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 112019008383 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20190425
WO18078481 A1	20191120	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 17864824 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: MORTARLESS **MASONRY**

Abstract: 1. A method of **building** up refractory **masonry** in a furnace which comprises laying up refractory bricks without mortar filling the spaces between adjacent bricks, while leaving open spaces between adjacent bricks sufficient to allow for expansion of the bricks during a heating up step, inserting flat **openwork** metallic structures into said open spaces, said structures being incapable of diminution of effective thickness of the structure as a whole, between said bricks. by expansion of said bricks, said structures reaching to that edge of the bricks which will be next to the source of heat when the furnace is used; the metal of said structures being capable of becoming softened and oxidized at high temperatures, and said metal and its oxide being free from deleterious action on the refractory quality of said bricks, and heating up the thus built up brickwork assemblage sufficiently to cause expansion of the bricks and consequent reduction of the spaces between said bricks, thereby at least partly pressing the said metallic structures into the adjacent surfaces of said bricks, and thereafter continuing the heating sufficiently to soften the metal of said structures and to cause oxidation of said softened metal while said metal is hot. , ' » ,

Classifications:

International (IPC 8-9): E04B2/10 F27D1/00

F27D1/16 (Advanced/Invention);

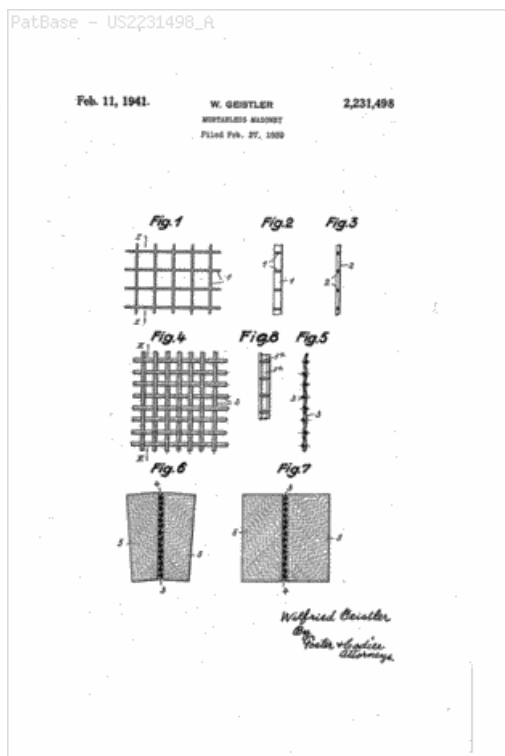
E04B2/04 F27D1/00 F27D1/16 (Core/Invention)

International (IPC 1-7): B21F27/20 B28B23/00 C04B35/00 F23M5/02

CPC: E04B2/10 F27D1/0026 F27D1/1621

European: E04B2/10 F27D1/00A2B F27D1/16B

US: 110/338 266/285 432/119 432/251 52/408



Family:

Publication number	Publication date	Application number	Application date
US2231498 A	19410211	US19390258796	19390227

Priority:

US19390258796 19390227

Probable Assignee: OESTERREICHISCHE MAGNESIT AG

Assignee(s): (std): OESTERREICHISCHE MAGNESIT AG

Assignee(s): OESTERREICHISCHE MAGNESIT AKTIENGESELLSCHAFT

Inventor(s): (std): WILFRIED GEISTLER

Inventor(s): GEISTLER WILFRIED

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2231498 A	19410211	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: **BUILDING** MEMBRANE WITH DRAINAGE MATRIX AND HORIZONTAL ADHESIVE PORTIONS

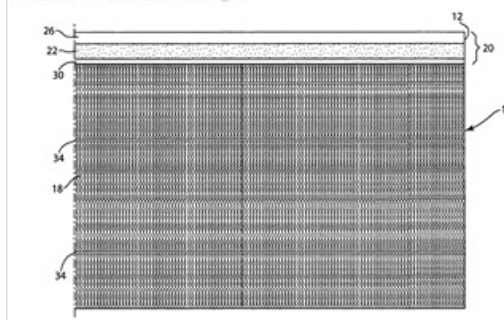
Abstract: A **building** wrap membrane comprising a sheet of spunbonded polypropylene fabric member with integral adhesive attachment strips mounted on the front and back of the sheet and a drainage matrix secured to the sheet front surface comprised of individual thermoplastic threads randomly laid down to form a net and secured together by heat bonding with the threads formed into spaced rows with a plurality of expansion joints formed across matrix rows.

Classifications:

International (IPC 8-9): B32B27/08 B32B27/12 B32B27/32
B32B27/34 B32B27/36 B32B3/08 B32B3/16 B32B5/02 B32B5/26
B32B7/06 B32B7/12 E04B1/62 E04B1/64 E04C1/00
E04D11/02 (Advanced/Invention);
B32B5/02 B32B7/12 E04D11/00 (Advanced/Non-invention)
CPC: E04B1/625 B32B7/12 B32B2419/00 B32B5/022 B32B5/26
B32B7/06 B32B27/12 B32B27/08 B32B27/32 B32B27/34 B32B27/36
B32B2262/0253 B32B2262/0261 B32B2307/724 B32B2307/7265
B32B5/028 B32B3/085 B32B2250/03 B32B2307/712 B32B2307/7242
B32B2307/726 B32B2419/06 E04D11/02 E04D11/002 B32B5/02
Y10T428/1471

US: 1/1 428/41.3 52/309.1

PatBase - US2016002914_AA



Family:

Publication number	Publication date	Application number	Application date
CA2887478 AA	20160101	CA20152887478	20150407
CA2887478 C	20180102	CA20152887478	20150407
US2016002914 AA	20160107	US20150662040	20150318
US2018066427 AA	20180308	US20170727125	20171006
US9783980 BB	20171010	US20150662040	20150318
US10125489 BB	20181113	US20170727125	20171006

Priority:

US20140998542P 20140701 US20150662040 20150318 US20170727125 20171006

Probable Assignee: VAPROSHIELD LLC

Assignee(s): (std): VAPROSHIELD LLC

Assignee(s): NOLAN KEVIN ; SNYDER LELAND D ; VAPROSHIELD CANADA ULC

Inventor(s): (std): NOLAN KEVIN ; SNYDER LELAND D

Agent(s): MOFFAT AND CO; JOHN S; GIPPLE AND HALE; HALE JOHN S

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2887478 AA	20160101	LSPB	+	published / reissued	
CA2887478 AA	20160218	LSSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20160211
CA2887478 C	20180102	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2887478 C	20350407	PEXP		Calculated Patent Term Expiry	
US10125489 BB	20181113	LSGT	+	granted / extensions (spc, cpc, pte)	
US10125489 BB	20171006	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VAPROSHIELD, LLC, WASHINGTON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SNYDER, LELAND D.; REEL/FRAME:043807/0745 EFFECTIVE DATE : 20171006
US10125489 BB	20171006	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : ENTITY STATUS SET TO UNDISCOUNTED (ORIGINAL EVENT CODE: BIG.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US10125489 BB	20171023	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : ENTITY STATUS SET TO SMALL (ORIGINAL EVENT CODE: SMAL); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US10125489 BB	20181024	LSGT	PAT1	Patented Case	
US10125489 BB	20371006	PEXP		Calculated Patent Term Expiry (a terminal disclaimer)	

					has been filed)
US2016002914 AA	20160107	LSPB	+	published / reissued	
US2016002914 AA	20170627	LSSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2016002914 AA	20170905	LSFE	+PPR1	Publications -- Issue Fee Payment Received	
US2016002914 AA	20170906	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US2016002914 AA	20170920	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2018066427 AA	20180308	LSPB	+	published / reissued	
US2018066427 AA	20171211	LSSES	NFA1	Non Final Action Mailed	
US2018066427 AA	20180426	LSSES	NFA1	Non Final Action Mailed	
US2018066427 AA	20180730	LSSES	+ALW 2	Allowed -- Notice of Allowance Not Yet Mailed	
US2018066427 AA	20180730	LSSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2018066427 AA	20181024	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US9783980 BB	20171010	LSGT	+	granted / extensions (spc, cpc, pte)	
US9783980 BB	20150318	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VAPROSHIELD, LLC, WASHINGTON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SNYDER, LELAND D.; NOLAN, KEVIN; REEL/FRAME:035196/0322 EFFECTIVE DATE : 20150318
US9783980 BB	20170920	LSGT	PAT1	Patented Case	
US9783980 BB	20350716	PEXP		Calculated Patent Term Expiry (PTA 120 days)	

Title: PORTAIL A SYSTEME DE VERROUILLAGE MAGNETIQUE D'ACCES

Abstract: The portal has a set of left tubular posts (18) in which one post comprises an interior access door (46) for installing an access control of the post and a locking unit (56). A rabbet (40) has wall portions (50, 54) with an opening (52) permitting to access interior of the other left posts (18) for controlling a mechanical locking unit (62). The opening is masked, the unit (62) is inaccessible and an access to the access control and to the unit (62) is not allowed, when the portal is in closed position.

Classifications:

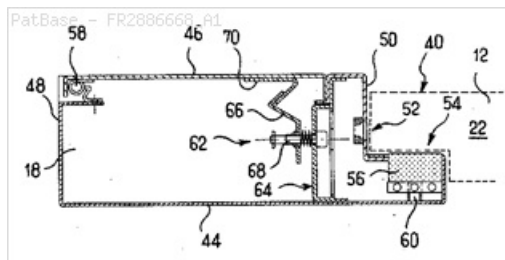
International (IPC 8-9): E05C19/16 E06B1/04

E06B11/02 (Advanced/Invention);

E05C19/00 E06B1/04 E06B11/00 (Core/Invention)

CPC: E05B65/0007 E05C19/166 E06B1/52 E06B11/02

European: E05C19/16E E06B11/02 P05B65/00B P06B1/52



Family:

Publication number	Publication date	Application number	Application date
FR2886668 A1	20061208	FR20050005716	20050606
FR2886668 B1	20070824	FR20050005716	20050606

Priority:

FR20050005716 20050606

Probable Assignee: BROGLIE IND SOC PAR ACTIONS SI

Assignee(s): (std): BROGLIE IND SOC PAR ACTIONS SI

Assignee(s): BROGLIE INDUSTRIE ; BROGLIE INDUSTRIE SOC PAR ACTIONS SIMPLIFIEE ; BROGLIE INDUSTRIE SOCIETE PAR ACTIONS SIMPLIFIEE

Inventor(s): (std): BERTAUX GILLES ; FOUGERON FREDERIC

Inventor(s): FREDERIC FOUGERON ; GILLES BERTAUX

Agent(s): CABINET FEDIT LORIOT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2886668 A1	20061208	LSPB	+	published / reissued	
FR2886668 A1	20081024	LSAS	TP	TRANSMISSION OF PROPERTY	
FR2886668 A1	20150423	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 11
FR2886668 A1	20170331	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20170228
FR2886668 B1	20070824	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2886668 B1	20250606	PEXP		Calculated Patent Term Expiry	

Title: MULDENROSTFEUERUNG MIT VERBINDUNGSKANAELEN IM MAUERWERK ZWISCHEN DEN FUELLSCHAECHTEN UND DEM VERBRENNUNGSRAUM MULDENROSTFEUERUNG WITH VERBINDUNGSKANAELEN IN **MASONRY** BETWEEN HOPPERS AND THE BURNING ROOM (Machine translation)

Abstract: Source: DE380765A [DE] (Claim 1) 1. PATENT-ANSPRUCH: Muldenrostfeuerung mit Verbindungskae nalen im Mauerwerk zwischen den Fue ll schaechten und dem Verbrennungsraum, da durch gekennzeichnet, dass die Seiten waende (f) der den Rost ueberwoelbenden Verbrennungskammer aus jalousieartig an gebrachten Schwelplatten (g) bestehen, die voll oder durchbrochen sind, und in die Kohlschaechte hineinragen.

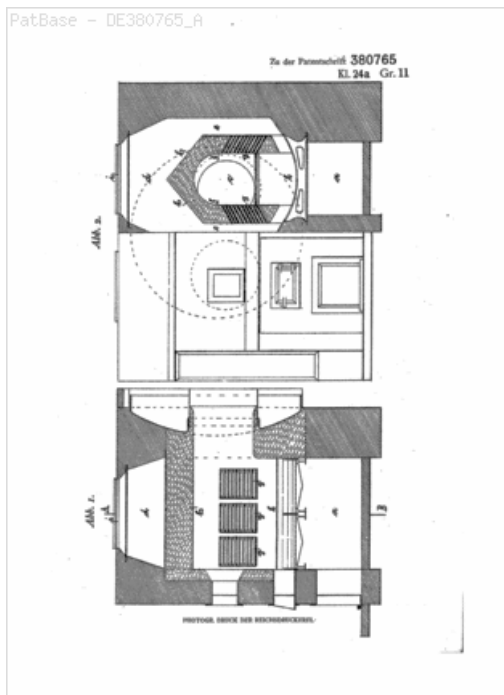
Machine translation: (Claim 1) 1 PATENT CLAIM: Muldenrostfeuerung with wire connections ducts in the **wall**-skin real between Fue ll and the combustion chamber, since in that the side **walls** (F) of the rust-arching combustion chamber consist of blind-like to put Schwelplatten (g), which are broken full or, and protrude into the carbon damage rights.

Classifications:

International (IPC 1-7): F23B1/28 F23K1/04

CPC: F23B60/00 F23B2700/011

European: F23B1/02 F23B60/00 R23B700/011



Family:

Publication number	Publication date	Application number	Application date
DE380765 A	19230911		00000000

Probable Assignee: ARTHUR WEINHOLD

Assignee(s): (std): ARTHUR WEINHOLD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE380765 A	19230911	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: BLOC-CROISEE**Abstract:** Source: BE458504A [FR] [Source: Claim 1] 1.**Classifications:****International (IPC 8-9):** B03B1/02 C22B1/02 C22B1/14 E04B1/16 E04C3/02 E04F21/00 E04G15/02 E04G17/14 E04G21/16 E06B1/24 H01T13/54 (Advanced/Invention);

E04B2/86 (Advanced/Non-invention);

B03B1/00 C22B1/00 C22B1/14 E04B1/16 E04C3/02 E04F21/00

E04G15/00 E04G17/14 E04G21/16 E06B1/04

H01T13/00 (Core/Invention);

E04B2/86 (Core/Non-invention)

CPC: E04G17/14 E04G21/16 E04B1/163 E04B2/8605 E04B2002/8688

E04G15/02 H01T13/54 B03B1/02 C22B1/02 C22B1/14 E04F21/0015

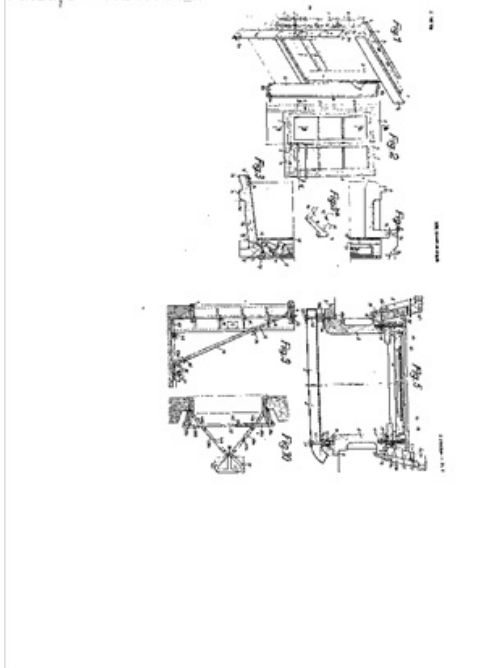
E06B1/24 E04C3/02 E04C2003/023

European: B03B1/02 C22B1/02 C22B1/14 E04B1/16B E04C3/02

E04F21/00B E04G15/02 E04G17/14 E04G21/16 E06B1/24 H01T13/54

P04B2/86D P04B2/86S P04C3/02A

PatBase - FR907704_A

**Family:**

Publication number	Publication date	Application number	Application date
BE458504 A	19450531		19450412
BE470502 A	19470228		19470113
FR53962 E	19470114		00000000
FR54011 E	19470327		19450111
FR55972 E	19520910		00000000
FR56349 E	19520922		19450730
FR907704 A	19460320		19441109

Priority:

19441109 19450111 19450730

Inventor(s): (std): ANGELI EUNO ; CROIZAT JOANNES ; PAUL ROGER ANTOINE EUGENE ; PERLIER ROSAIRE JOSEPH RAOUL L**Inventor(s):** PERLIER ROSAIRE JOSEPH RAOUL LE**Legal status (INPADOC)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
BE458504 A	19450531	LSPB	+	published / reissued	
BE458504 A	19650412	PEXP		Calculated Patent Term Expiry	
BE470502 A	19470228	LSPB	+	published / reissued	
BE470502 A	19670113	PEXP		Calculated Patent Term Expiry	
FR907704 A	19460320	LSGT	+	granted / extensions (spc, cpc, pte)	
FR907704 A	19641109	PEXP		Calculated Patent Term Expiry	

Title: REUSABLE FORMWORK SYSTEM

Abstract: Multiple-use reusable formwork system made up of formwork elements and of the elements for assembling them.
 - Each formwork element is made up of a surround formed of U-section longitudinal members (20) that form stiffeners and at least one hollow panel (10), the edge of which is reduced in thickness so that the longitudinal members (20) can sit atop them. The thickness of the edges of the longitudinal members (20) corresponding to the reduction in thickness of the edges of the panel (10). The panel having, passing through it, a network of passages and the edges of the panel (10) orifices for the assembly of the longitudinal members (20). Connecting members (30) for removably assembling the longitudinal members (20) with the panel (10).

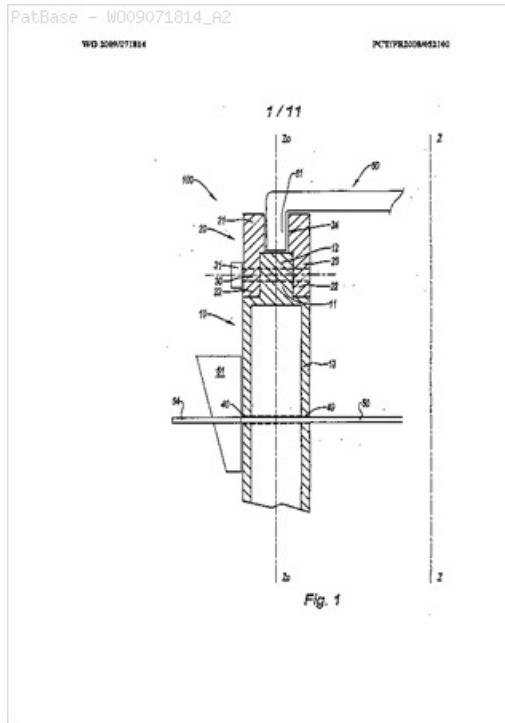
Classifications:

International (IPC 8-9): E04G11/14 E04G17/075 E04G9/00
 E04G9/02 (Advanced/Invention);

E04G11/00 E04G17/06 E04G9/00 E04G9/02 (Core/Invention)

CPC: E04G2017/0646 E04G11/14 E04G17/0752

European: E04G11/14 E04G17/075B2

**Family:**

Publication number	Publication date	Application number	Application date
EP2217777 A2	20100818	EP20080857285	20081121
FR2924455 A1	20090605	FR20070059431	20071129
FR2924455 B1	20130906	FR20070059431	20071129
WO09071814 A2	20090611	WO2008FR52100	20081121
WO09071814 A3	20090813	WO2008FR52100	20081121

Priority:

FR20070059431 20071129 WO2008FR52100 20081121

Probable Assignee: AUGER RICHARD

Assignee(s): (std): AUGER RICHARD

Assignee(s): RICHARD AUGER

Inventor(s): (std): AUGER RICHARD

Inventor(s): RICHARD AUGER

Agent(s): CABINET HERRBURGER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN 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
EP2217777 A2	20100818	LSPB	+	published / reissued	
EP2217777 A2	20100818	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100504
EP2217777 A2	20110406	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20100827
FR2924455 A1	20090605	LSPB	+	published / reissued	
FR2924455 A1	20120817	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE

						DATE : 20120731
FR2924455 A1	20121001	LSWD	RR	Recours en restauration ou en annulation (WITHDRAWAL OR COMPLETE RENUNCIATION)		REGISTERED NUMBER : 0191830 BOPI DATE : 2012-44
FR2924455 A1	20121102	LSRE	RN	APPLICATION FOR RESTORATION		EFFECTIVE DATE : 20121001
FR2924455 A1	20121127	LSFE	PLFP	Fee Payment (FEE PAYMENT)		PAYMENT DATE : 20121127 YEAR OF FEE PAYMENT : 6
FR2924455 A1	20121130	LSRE	FC	FAVOURABLE DECISION OF INPI DIRECTOR GENERAL ON AN APPLICATION FOR RESTAURATION.		EFFECTIVE DATE : 20121029
FR2924455 B1	20130906	LSGT	+	granted / extensions (spc, cpc, pte)		
FR2924455 B1	20131202	LSLE	-ST	NOTIFICATION OF LAPSE		
FR2924455 B1	20140822	LSLE	-ST	NOTIFICATION OF LAPSE		EFFECTIVE DATE : 20140731
FR2924455 B1	20271129	PEXP		Calculated Patent Term Expiry		
WO09071814 A2	20090611	LSPB	+	published / reissued		
WO09071814 A3	20100504	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE		REF DOCUMENT NUMBER : 2008857285 COUNTRY OF REF DOCUMENT : EP
WO09071814 A3	20100601	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE		REF COUNTRY CODE : DE

Title: Improvements in and relating to protecting devices for window and door openings

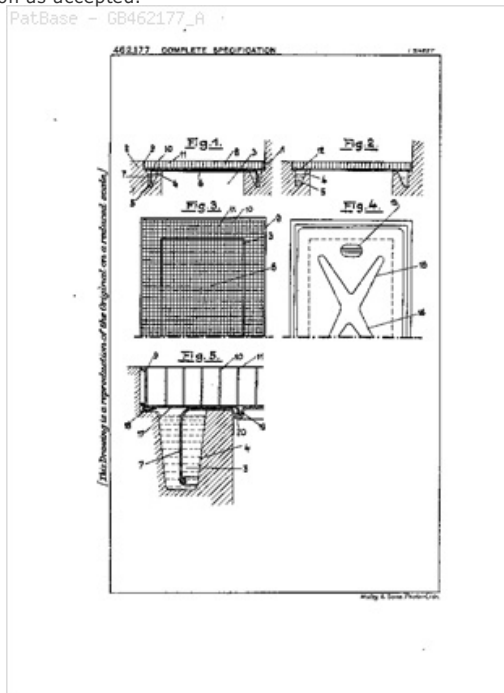
Abstract: 462,177. Cellar covers and gratings. MANNESMANNROHREN - WERKE, and DIETEL, R. Aug. 30, 1935, No. 24305. Convention date, Aug. 30, 1934. [Classes 20 (i) and 107] The light shaft 3, Fig. 1, of a house cellar is covered by a grating 8, and by a dipping-bell 6 which dips into a sealing liquid contained in a peripheral groove 4 in the surrounding masonry, the combined arrangement forming a closure which is splinter-proof and secure against the ingress of poisonous gases. The dipping-bell is intended for use only in the case of an aerial attack, and the grating is therefore provided with a plate 12 which normally covers the groove 4. In a modification, Fig. 5, the plate is formed as a separate unit and has a peripheral lip 19 which engages in a groove 20 in the dipping-bell. The latter is formed with reinforcing ribs and is provided with handles for lifting purposes. The liquid seal may be effected by two or more grooves and by a corresponding number of rims on the dipping-bell. The Specification as open to inspection under Sect. 91 describes also a modification in which the groove is formed in a metal frame anchored to the surrounding masonry. In another arrangement, the seal is effected by a plate which is raised and lowered by chain tackle and which is used alone in place of a door which is normally used to cover the cellar opening. This subject-matter does not appear in the Specification as accepted.

Classifications:

International (IPC 8-9): E06B5/14 H01T13/36 (Advanced/Invention)

CPC: E06B5/14 H01T13/36

European: E06B5/14 H01T13/36



Family:

Publication number	Publication date	Application number	Application date
GB462177 A	19370301	GB19350024305	19350830
GB467316 A	19370615	GB19360029090	19361026

Probable Assignee: RUDOLF DIETEL

Assignee(s): (std): MANNESMANN AG ; RUDOLF DIETEL

Assignee(s): MANNESMANNROEHREN WERKE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB462177 A	19370301	LSGT	+	granted / extensions (spc, cpc, pte)	
GB462177 A	19550830	PEXP		Calculated Patent Term Expiry	
GB467316 A	19370615	LSGT	+	granted / extensions (spc, cpc, pte)	
GB467316 A	19561026	PEXP		Calculated Patent Term Expiry	

Title: MOLD AND MILDEW RESISTANT **OPENWORK BUILDING** MATERIAL

Abstract: A roll-form **building** material spacer product providing air space and drainage passageways within a **building** structure. The **building** material spacer has an **openwork** structure and carries an antifungal agent which prevents the growth of mold and mildew within a **building** structure in which the spacer is installed. Preferably, the antifungal agent is dispersed evenly throughout the **openwork** material either within the material or coated on the material. A **building** structure assembly having the **openwork** spacer and methods of making an **openwork** spacer and making a **building** structure with the spacer are also provided.

Classifications:

International (IPC 8-9): B32B27/18 B32B5/02 E04B1/62 E04B1/682 E04B1/70 E04B7/00 E04D12/00 E04D13/17 E04F13/00

F16L59/12 (Advanced/Invention);

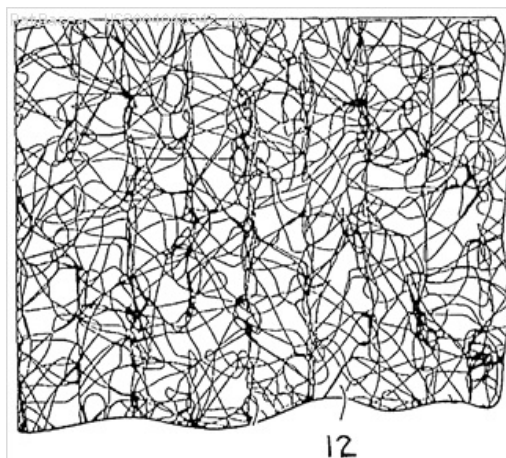
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International (IPC 1-7): E04B1/62 E04B1/682 E04B7/00 E04D12/00 E04D13/17 E04F15/14 F16L59/12

CPC: B32B5/26 B32B3/30 B32B13/12 B32B21/10 B32B2419/00 B32B5/02 B32B27/18 E04B1/70 E04B1/7069 E04D12/002 E04D13/17 E04F13/007

European: B32B27/18 B32B5/02 E04B1/70 E04B1/70V E04D12/00B E04D13/17 E04F13/00B

US: 52/396.02



Family:

Publication number	Publication date	Application number	Application date
CA2439223 AA	20040305	CA20032439223	20030903
US2004045242 AA	20040311	US20020235128	20020905

Priority:

US20020235128 20020905 CA20032439223 20030903

Probable Assignee: BENJAMIN OBDYKE INC

Assignee(s): (std): BENJAMIN OBDYKE INC ; LAKE CHARLES W ; OBDYKE BENJAMIN INC

Inventor(s): (std): LAKE CHARLES W

Agent(s): FINLAYSON AND SINGLEHURST

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2439223 AA	20040305	LSPB	+	published / reissued	
CA2439223 AA	20070904	LSLE	-FZDE	DEAD	
US2004045242 AA	20040311	LSPB	+	published / reissued	
US2004045242 AA	20021016	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENJAMIN OBDYKE INCORPORATED, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LAKE, CHARLES W.; REEL/FRAME:013731/0251 EFFECTIVE DATE : 20020903
US2004045242 AA	20060120	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	

Title: **WALL** ELEMENT WITH A HEAT-INSULATING CORE

Abstract: A **wall** element with heat-insulating core made of heat-insulating materials with strength sufficient to enable formation of supporting matrix, for which, during its production, it forms part of a mould, it contains at least two internal blocks (3) the widths of which (A1, A2) at the point of contingency of the joint (11) or (17) or transverse **wall** (15) to their longitudinal surface is smaller than the distance (B) between the joint or transverse **wall** abutting the longitudinal surface of the block on one side and the joint or transverse **wall** abutting the longitudinal surface of that block on the other side, whereas the direct joints and perpendicular transverse **walls** or oblique joints that connect one pair of adjacent longitudinal **walls** are spaced from the middle of the element at a distance different from the distance between the middle of the element and joints or **walls** that connect the next pair of adjacent longitudinal **walls**.

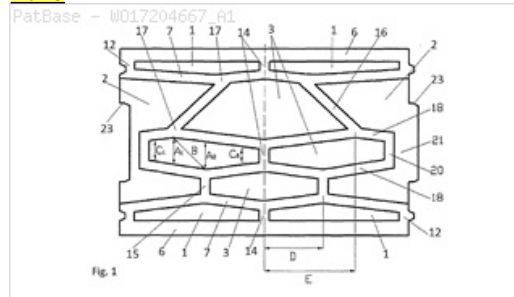
Classifications:

International (IPC 8-9): E04B2/02 E04B2/08 E04B2/14

E04C 1/41 (Advanced/Invention);

E04B2/02 (Advanced/Non-invention)

CPC: E04B2/18 E04B2002/0208 E04C 1/41



Family:

Publication number	Publication date	Application number	Application date
EP3464743 A1	20190410	EP20170787663	20170524
PL233036 B1	20190830	PL20160417310	20160524
PL417310 A1	20171204	PL20160417310	20160524
WO17204667 A1	20171130	WO2017PL00055	20170524

Priority:

PL20160417310 20160524 WO2017PL00055 20170524

Probable Assignee: DOLINSKI SZYMON

Assignee(s): (std): DOLINSKI SZYMON ; TRZASKOMA MALGORZATA

Inventor(s): (std): DOLINSKI SZYMON ; TRZASKOMA MALGORZATA

Agent(s): LAMPART JERZY

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC 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
EP3464743 A1	20190410	LSPB	+	published / reissued	
EP3464743 A1	20190410	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20181114
PL233036 B1	20190830	LSGT	+	granted / extensions (spc, cpc, pte)	
PL417310 A1	20171204	LSPB	+	published / reissued	
WO17204667 A1	20171130	LSPB	+	published / reissued	
WO17204667 A1	20181127	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO17204667 A1	20190104	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2017787663 COUNTRY OF REF DOCUMENT : EP EFFECTIVE DATE : 20190102

Title: FRAME FOR REINFORCING ELEMENTS HAVING AN INORGANIC MATRIX

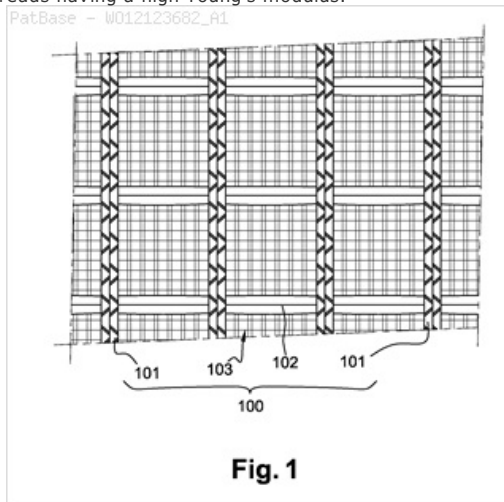
Abstract: The invention relates to a frame for reinforcing composite elements having an inorganic or resin matrix, consisting of a unidirectional, bidirectional, or multidirectional reinforcement, which is combined, by means of textile weaving, with an anti-cracking structure (103) consisting of a textile produced using threads having a high Young's modulus.

Classifications:

International (IPC 8-9): B28B23/00 B29C70/22 D04B21/14 D04B21/16 E04C2/06 E04C5/07 E04G23/02 (Advanced/Invention); E04C2/06 (Advanced/Non-invention)

CPC: D04B21/16 D10B2403/021 D10B2403/02412 D10B2505/02 E04C2/06 E04C5/07

European: D04B21/16 E04C2/06 E04C5/07 N10B403/021 N10B403/02412 N10B505/02



Family:

Publication number	Publication date	Application number	Application date
CA2828332 AA	20130826	CA20122828332	20120315
EP2686471 A1	20140122	EP20120714782	20120315
FR2972732 A1	20120921	FR20110052156	20110316
FR2972732 B1	20130315	FR20110052156	20110316
JP2014511951 A2	20140519	JP20130558488	20120315
JP2014511951 T2	20140519	JP20130558488T	20120315
WO12123682 A1	20120920	WO2012FR50539	20120315

Priority:

FR20110052156 20110316 WO2012FR50539 20120315

Probable Assignee: MDB TEXINOV SA

Assignee(s): (std): AURAY GERMAIN ; DELTAVAL ; HAMELIN PATRICE ; LEO SEBASTIEN ; MDB TEXINOV SA ; SI LARBI AMIR ; TANKERE JACQUES

Inventor(s): (std): AURAY GERMAIN ; HAMELIN PATRICE ; SI LARBI AMIR ; LEO SEBASTIEN ; TANKERE JACQUES

Inventor(s): JACQUES TANKERE ; AMIR SI LARBI ; PATRICE HAMELIN ; SEBASTIEN LEO ; GERMAIN AURAY

Agent(s): BROUILLETTE AND ASSOCIES PARTNERS; CABINET LAURENT AND CHARRAS; CABINET LAURENT ET CHARRAS; VUILLERMOZ BRUNO 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 LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2828332 AA	20130826	LSPB	+	published / reissued	
CA2828332 AA	20180426	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20180315
EP2686471 A1	20140122	LSPB	+	published / reissued	
EP2686471 A1	20140122	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20130909
EP2686471 A1	20180620	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20180517
EP2686471 A1	20191127	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20190618
FR2972732 A1	20120921	LSPB	+	published / reissued	
FR2972732 B1	20130315	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2972732 B1	20160329	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 6

FR2972732 B1	20170327	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 7
FR2972732 B1	20180329	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
FR2972732 B1	20190328	LSFE	PLFP	Fee Payment (FEE PAYMENT)	PAYMENT DATE : 20190328 YEAR OF FEE PAYMENT : 9
FR2972732 B1	20200326	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 10
FR2972732 B1	20310316	PEXP		Calculated Patent Term Expiry	
JP2014511951 A2	20140519	LSPB	+	published / reissued	
JP2014511951 A2	20161107	LSRV	-A02	DECISION OF REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20161107
JP2014511951 T2	20140519	LSPB	+	published / reissued	
JP2014511951 T2	20150302	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20150302
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WO12123682 A1	20120920	LSPB	+	published / reissued	
WO12123682 A1	20130826	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2828332 COUNTRY OF REF DOCUMENT : CA
WO12123682 A1	20130911	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2013558488 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO12123682 A1	20130916	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE

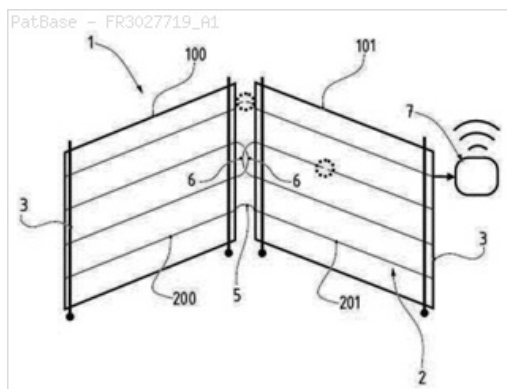
Title: DISPOSITIF DE CLOTURE ELECTRIFIEE SECURISEE

Abstract: Source: FR3027719B [FR] La presente invention concerne un dispositif de cloture (1), comprenant au moins deux modules (100,101) de cloture adjacents et des moyens electrifies de securite (2) sous la forme de deux circuits electriques (200,201) parcourus par un courant et montes sur chacun desdits deux modules (100,101), caracterise par le fait qu'il comprend des moyens de raccordement electrique desdits deux circuits desdits modules adjacents et des moyens (7) de detection de la coupure dudit courant, lesdits moyens de detection comprenant des moyens de declenchement d'une alarme en cas de detection de ladite coupure.

Classifications:

International (IPC 8-9): G08B13/22 (Advanced/Invention)

CPC: G08B13/122



Family:

Publication number	Publication date	Application number	Application date
FR3027719 A1	20160429	FR20140060283	20141027
FR3027719 B1	20180309	FR20140060283	20141027

Priority:

FR20140060283 20141027

Probable Assignee:

PERIMETER PROT FRANCE

Assignee(s): (std):

PERIMETER PROT FRANCE

Assignee(s):

PERIMETER PROTECTION FRANCE

Inventor(s): (std):

HERVE FRANCOIS

Inventor(s):

FRANCOIS HERVE

Agent(s):

CABINET BLEGER RHEIN POUPON

Legal status (INPADOC)

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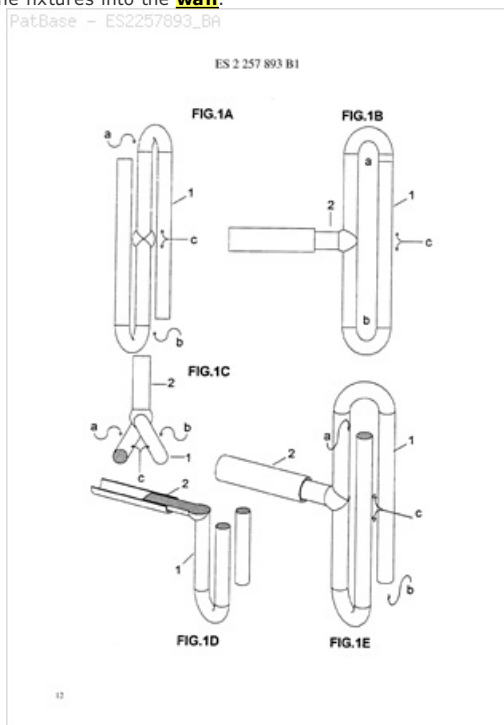
Patent	Date recorded	Event group	Code	Event	Details
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FR3027719 A1	20151027	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 2
FR3027719 A1	20160429	LSSES	PLSC	SEARCH REPORT READY	EFFECTIVE DATE : 20160429
FR3027719 A1	20161017	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 3
FR3027719 A1	20171016	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
FR3027719 A1	20180105	LSAS	TP	TRANSMISSION OF PROPERTY	PARTYTYPE : OWNER OWNER : EUROFENCE, FR EFFECTIVE DATE : 20171201
FR3027719 B1	20180309	LSGT	+	granted / extensions (spc, cpc, pte)	
FR3027719 B1	20181029	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 5
FR3027719 B1	20191029	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 6
FR3027719 B1	20341027	PEXP		Calculated Patent Term Expiry	

Title: ANCLAJE MULTIUSO PARA MUROS ARMADOS O SIN ARMAR

Abstract: An elongated body formed of e.g. wires, double sheets, hollow pipes, is cut with perforations for introducing threaded fixtures into factory bricks or blocks of a **wall**. The body also forms right, left, and central holes aligned together to allow threaded components or armatures to access into and anchor the fixtures into the **wall**.

Classifications:

International (IPC 8-9): E04B1/41 E04B2/30 E04C5/16
E04F13/08 (Advanced/Invention);
E04B1/41 E04B2/28 E04C5/16 E04F13/08 (Core/Invention)
CPC: E04B1/4178 E04B2/30 E04C5/16 E04F13/0808
European: E04B1/41M E04B2/30 E04C5/16 E04F13/08B2B3



Family:

Publication number	Publication date	Application number	Application date
ES2257893 AA	20060801	ES20030000831	20030408
ES2257893 BA	20070516	ES20030000831	20030408

Priority:

ES20030000831 20030408

Probable Assignee:

ADELL ARGILES JOSEP MARIA

Assignee(s): (std):

ADELL ARGILES JOSEP MARIA

Inventor(s): (std):

ADELL ARGILES JOSEP MARIA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES2257893 AA	20060801	LSPB	+	published / reissued	
ES2257893 AA	20040316	LSLI	GD2A	CONTRACTUAL LICENCES	EFFECTIVE DATE : 20040226
ES2257893 AA	20060801	LSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 20060801 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
ES2257893 AA	20070516	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2257893B1 COUNTRY OF REF DOCUMENT : ES
ES2257893 AA	20170216	LSLE	-FD2A	ANNOUNCEMENT OF LAPSE IN SPAIN	EFFECTIVE DATE : 20170216
ES2257893 BA	20070516	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2257893 BA	20230408	PEXP		Calculated Patent Term Expiry	

Title: A PEBBLEDASH CHIP TRAY

Abstract: A tray 1 for collecting chips and stones during pebbledashing comprises a base 2 with a wall 3 surrounding and extending upwards from the base. The wall 3 has a rear portion 3d with a backboard 4 that extends from the rear portion which abuts and extends along a section of building wall in use. The base has at least one aperture 5 to allow drainage of the tray when the chips are cleaned. The wall may have complementary side portions 3a and 3b which allow adjacent trays to be connected together via a lip 6, with the backboards of the trays overlapping. The wall may taper to allow multiple trays to be stacked. A corner of the tray may have an indent to at least partially receive a scaffolding pole. The tray may be moulded from plastic.

Classifications:

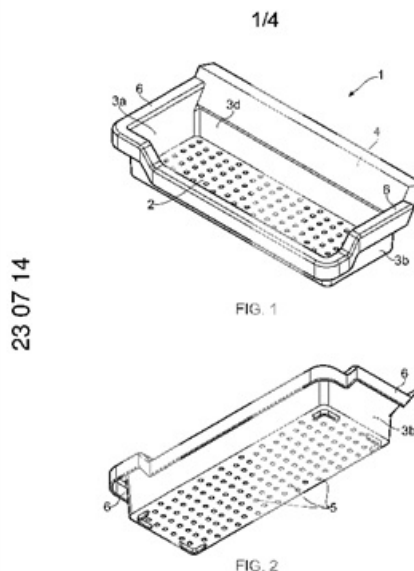
International (IPC 8-9): B28D1/00 E04F13/00 E04G23/00

E04G23/02 (Advanced/Invention)

CPC: B28D1/00 E04F13/14 E04F13/00 E04F21/00 E04G5/003

E04G23/002 E04G23/02

PatBase - GB2519584_A1



Family:

Publication number	Publication date	Application number	Application date
GB201318951 A0	20131211	GB20130018951	20131026
GB2519584 A1	20150429	GB20130018951	20131026
GB2519584 B2	20151021	GB20130018951	20131026

Priority:

GB20130018951 20131026

Probable Assignee:

MCCORMICK PATRICK

Assignee(s): (std):

MCCORMICK PATRICK

Assignee(s):

PATRICK MCCORMICK

Inventor(s): (std):

MCCORMICK PATRICK

Inventor(s):

PATRICK MCCORMICK

Legal status (INPADOC)

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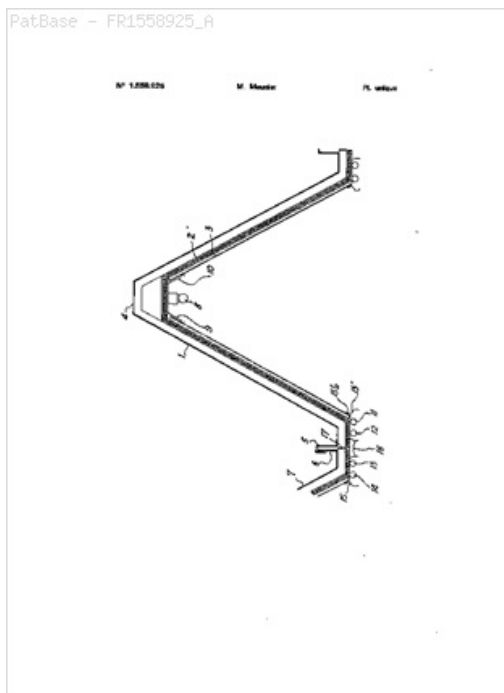
Patent	Date recorded	Event group	Code	Event	Details
GB2519584 A1	20150429	LSPB	+	published / reissued	
GB2519584 B2	20151021	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2519584 B2	20331026	PEXP		Calculated Patent Term Expiry	

Title: PERFECCIONAMIENTOS EN LA CONSTRUCCION DE DISPOSITIVOS DE TECHUMBRE DE FUNCIONES MULTIPLES.

Abstract: Source: FR1558925A [FR] [Source: Claim 1] 1. Le dispositif est forme d'elements separes comprenant solidairement chacun une coque exterieure formant toiture, une couche destinee aux isolations acoustiques et thermiques, une surface de support de ladite couche et des dispositions de chauffe par rayonnement et d'eclairage; **Machine translation:** [Source: Claim 1] 1. The device is separated form each severally Elements including outer shell forming a roof, a destiny layer acoustic and thermal insulation, a support surface of the layer and the provisions of radiant heating and illumination;

Classifications:

International (IPC 8-9): E04B7/10 E04B7/20 E04B9/00 (Advanced/Invention);
E04B7/00 E04B7/10 E04B9/00 (Core/Invention)
International (IPC 1-7): E04B7/12 E04D
CPC: E04B7/107 E04B7/20 E04B9/00
European: E04B7/10D E04B7/20 E04B9/00



Family:

Publication number	Publication date	Application number	Application date
ES357082 A1	19700216	ES19680357082	19680809
FR1558925 A	19690307	FR19670117445	19670809

Priority:

FR19670117445 19670809

Probable Assignee:

GILLES MEUNIER

Assignee(s): (std):

GILLES MEUNIER

Legal status (INPADOC)

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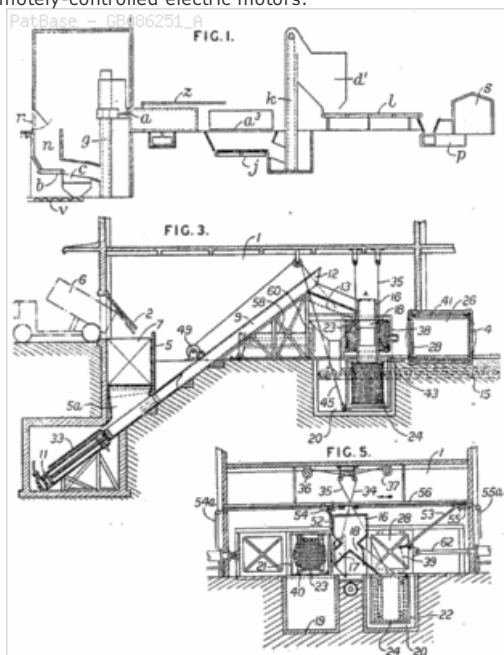
Patent	Date recorded	Event group	Code	Event	Details
ES357082 A1	19700216	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1558925 A	19690307	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1558925 A	19820312	LSAS	CD	CHANGE OF NAME OR COMPANY NAME	
FR1558925 A	19850607	LSAS	TP	TRANSMISSION OF PROPERTY	
FR1558925 A	19870809	PEXP		Calculated Patent Term Expiry	

Title: IMPROVEMENTS IN AND RELATING TO THE MANUFACTURE OF MANURE FROM GARBAGE

Abstract: 486,251. Making manure from garbage. STREIT, H., BOIX, C., and LASSERRE, M. April 29, 1937, Nos. 12234 and 12235. Convention dates, April 29, 1936 and April 22, 1937. [Class 111] Manure is made from garbage by sterilizing the garbage in a closed space, the necessary handling mechanism being controlled by remote-control devices, the garbage being first passed through a screen which eliminates fine material and forwards the coarse material to an autoclave, after which it is conveyed through a sorting device, a brickmaking press and a drier, to be finally crushed and mixed with the fine material, which has been sterilized by blowing hot air through it. In the form shown in Fig. 1, the garbage is shot through a flap r into a hopper n from which a conveyer b leads it to a shaking screen c. The fine material is taken away by a conveyer v, while the coarse material is elevated by a device g and fed to an autoclave a containing an **openwork** metal cylinder, which after the material has been sterilized by blowing hot air through it, is moved to the position a<3> and the material unloaded on to the conveyer j and elevated by a device k to a hopper d<1> feeding a sorting device l where iron matter may be removed magnetically and hand sorting may be carried out. The residue is converted in a hydraulic press p into briquettes, which are dried in a hot air apparatus s. The briquettes are then crushed and mixed with dried fine material from the screen c. The resulting material is crushed and bagged and constitutes a manure. In the sterilization apparatus shown in Figs. 3 and 5, the garbage is shot from a truck 6 through a trap-door 2 in a closed space 1 into a pit 5 from which it is forced by a piston 7 into a hopper 5a. The piston 7 is operated by a hydraulic cylinder, not shown, which is itself advanced into the pit 5 after each stroke of the piston 7 by a rack-and-pinion mechanism, so that a relatively short cylinder may be employed. The garbage falling from the hopper 5a is urged by a piston 11 up a shoot 9. The piston 11 is provided with a guard plate 33 to prevent garbage from falling behind it. The garbage falls at 12 into a shaking screen 13, from which the fine matter falls on to a screw conveyer 15, while the coarse material passes into a hopper 16 having two shoots 17, 18 which are lowered alternately to fill metal baskets 23, 24 supported by frames 21, 22 in pits 19, 20. In the position shown, the basket 24 is being filled, the lid 39 thereof being held open by a hook 53. When the basket 24 is full, the shoot 18 is raised by cord 35 from winch 37, the basket 23 is brought into its pit 19, and the carriage 55 of hook 53 and the carriage 54 of a similar hook 52 are traversed to the left along a rail 56 by cords 54a, 55a, thus lowering the lid 39 while the hook 52 opens the lid 38 of the basket 23. The shoot 17 is then lowered by cord 34 from winch 36. The frame 22 is then swung about its pivot 43 by a cord 45 from a wind 49 into the horizontal position shown in Fig. 3 for frame 21. The door 28 of the autoclave 26 is then withdrawn by an hydraulic ram 62, and the piston 60 of an hydraulic cylinder 58 pushes the basket 24 into the autoclave, the basket being provided with wheels 40, which run on rails 41. The door 28 is then re-closed. When the material has been sterilized, the door 4 of the autoclave is opened by an hydraulic ram, not shown, and the basket 24 taken out, emptied, and replaced. In the position shown, the basket 23 is about to be returned from a second autoclave, not shown. These autoclaves are thus used alternately. The winches 36, 37, 49 are operated by remotely-controlled electric motors.

Classifications:**International (IPC 8-9):** C05F9/00 (Advanced/Invention);

C05F9/00 (Core/Invention)

CPC: C05F9/00 Y02A40/214**European:** C05F9/00**Family:**

Publication number	Publication date	Application number	Application date
GB486251 A	19380601	GB19370012234	19370429

Priority:

GB19370012234 19370429

Probable Assignee: HENRI STREIT**Assignee(s):** (std): CONSTANT BOIX ; HENRI STREIT ; MARCEL LASSERRE**Legal status (INPADOC)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
GB486251 A	19380601	LSGT	+	granted / extensions (spc, cpc, pte)	
GB486251 A	19570429	PEXP		Calculated Patent Term Expiry	

Title: PANNEAU DE CONSTRUCTION OU ELEMENT ANALOGUE **BUILDING** PANEL OR SIMILAR ELEMENT (Machine translation)

Abstract: Source: FR1390555A [FR] (Claim 1) 1. Il comprend une feuille rectangulaire contenant du plâtre, sensiblement plane du cote anterieur et ayant une serie de nervures contenant du plâtre espacees, s'etendant longitudinalement, solidaires du panneau et faisant saillie a partir du cote posterieur parallelement aux bords longitudinaux, la feuille n'ayant pas, entre les nervures, une epaisseur inferieure a 6,35 mm, chacune des nervures n'ayant pas une epaisseur inferieure a celle de la feuille en hauteur, l'epaisseur transversale moyenne n'etant pas inferieure a l'epaisseur de la feuille et pas superieure a 3,5 fois environ l'epaisseur de cette derniere, la totalite des epaisseurs transversales de toutes les nervures lorsqu'on les mesure a mi-hauteur etant comprise entre 5 et 25 percent environ de la largeur du panneau de construction, chacune des nervures ayant egalement un moyen de renforcement au voisinage de la jonction des nervures avec le cote posterieur, le cote anterieur et le cote posterieur nervure presentant chacun un revetement en papier qui y adhère, le revetement en papier ayant une resistance a la traction dans un sens quelconque qui n'est pas inferieur a 2,67 kg par centimetre lineaire;

Machine translation: (Claim 1) 1. It comprises a rectangular sheet containing plaster, the substantially planar front side and having a series of spaced ribs containing plaster, longitudinally extending, integral with the panel and projecting from the rear side parallel to the longitudinal edges, the sheet n' have not, between the ribs, a thickness of less than 6.35 mm, ribs each having a thickness less than that of the leaf height, the average transverse thickness not being less than the thickness of sheet and has no upper approximately 3.5 times the thickness de.cette last, all of the thicknesses of all transverse ribs when measured mid-height being between 5 and 25 percent about the width of the panel construction, each of the ribs also having a reinforcing means in the vicinity of the junction of the ribs with the rear side, the front side and rear side each having a rib paper coating adhered thereto, the paper coating having a resistance to traction in any direction which is not less than about 2.67 kilograms per linear centimeter;

Classifications:

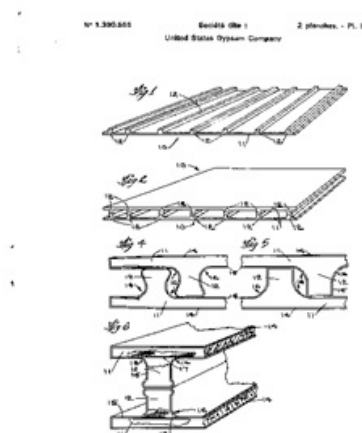
International (IPC 8-9): E04C2/04 (Advanced/Invention);
E04C2/04 (Core/Invention)

International (IPC 1-7): E04C2/34

CPC: E04C2/043

European: E04C2/04C

PatBase - FR1390555_A



Family:

Publication number	Publication date	Application number	Application date
FR1390555 A	19650226	FR19640966858	19640310

Priority:

FR19640966858 19640310

Probable Assignee: UNITED STATES GYPSUM CO
Assignee(s): (std): UNITED STATES GYPSUM CO
Assignee(s): UNITED STATES GYPSUM COMPANY

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR1390555 A	19650226	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1390555 A	19840310	PEXP		Calculated Patent Term Expiry	

Title: CONVECTION HEATING SYSTEM FOR **BUILDINGS** - HAS AIR FLOW DUCTS INCORPORATED IN FLOORS AND COUPLED BEHIND SKIRTING BOARDS

Abstract: The floor of the **building** employing the heating system incorporates air flow ducts, which at the edge of the floor communicate with air channels positioned above or below the skirting board. The heating grid is positioned below the air flow ducts and the latter are covered by a thin layer of concrete, forming a solid floor. Preferably the underfloor air ducts are formed by a bed of hollow bricks of 3.4 or 5 centimetre thickness. The external **walls** of the **building** may have a cavity containing a polyurethane insulation layer, and a similar polyurethane layer may be positioned between the foundation bed and the under-floor heating system.

Classifications:

International (IPC 8-9): E04B5/48 E04D13/17 F24D13/02

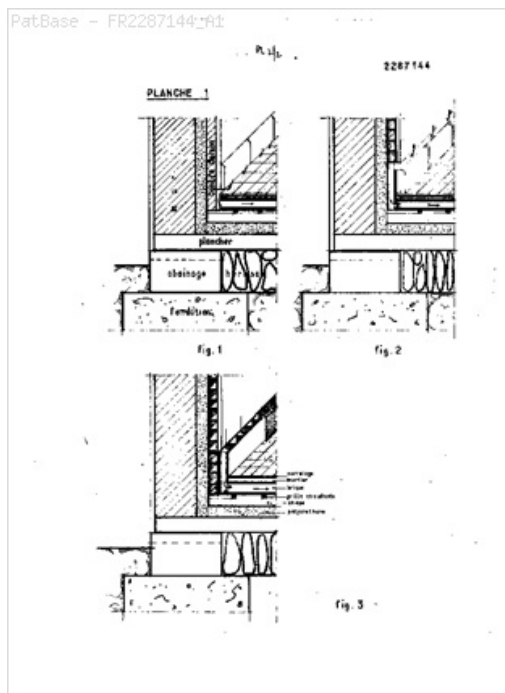
H05B3/00 (Advanced/Invention);

E04B5/48 E04D13/00 F24D13/02 H05B3/00 (Core/Invention)

International (IPC 1-7): E04B5/48 F24D13/02 H05B3/40

CPC: Y02B30/26 F24D13/024 E04B5/48 E04D13/17 H05B3/00

European: E04B5/48 E04D13/17 F24D13/02B2 H05B3/00



Family:

Publication number	Publication date	Application number	Application date
FR2287144 A1	19760430	FR19740033744	19741004
FR2287144 B3	19771104	FR19740033744	19741004

Priority:

FR19740033744 19741004

Probable Assignee:

BALUE GEORGES

Assignee(s): (std):

BALUE GEORGES

Legal status (INPADOC)

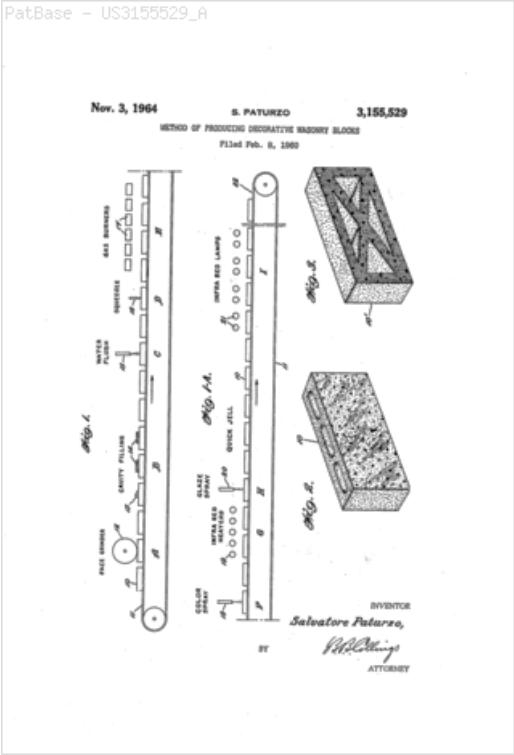
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Patent	Date recorded	Event group	Code	Event	Details
FR2287144 A1	19760430	LSPB	+	published / reissued	
FR2287144 B3	19771104	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2287144 B3	19791130	LSWD	-RE	WITHDRAWAL OF PUBLISHED APPLICATION	
FR2287144 B3	19801004	PEXP		Calculated Patent Term Expiry	

Title: METHOD OF PRODUCING DECORATIVE MASONRY BLOCKS

Abstract: (Claim 1) 1. The method of treating molded and cured blocks composed of a cementitious binder component and discrete aggregates whereby to produce decorative masonry elements, said method comprising: uninterruptedly advancing such a block along a predetermined path and, concomitantly therewith, sequentially dressing a face of the block to produce thereon a smoothed but porous and pitted surface which displays the contrasting colorations of the respective block constituents; applying a plastic, settable composition to said face and working it into the depressions and openings therein to fill the same; removing excess filling composition from the block face, to preserve the color contrasts of the block constituents appearing therein; heating the block to a temperature sufficient to produce a rapid jelling of a liquid resinous material applied thereto; coating the dressed face of the so-heated block with a film of a transparent thermosetting polyester resin; further heating the block after attainment by such resin coating of the initial jell induced therein by said block temperature, to complete the settling thereof; and cooling the block.

Classifications:
International (IPC 8-9): B28B11/04 (Advanced/Invention); B28B11/04 (Core/Invention)
International (IPC 1-7): C04B41/20
CPC: B28B11/04
European: B28B11/04
US: 118/643 118/66 427/270 427/277 427/292 427/379 52/309.17 52/315 52/515



Family:

Publication number	Publication date	Application number	Application date
US3155529 A	19641103	US19600007345	19600208

Priority:

US19600007345 19600208

Probable Assignee: PATURZO BRO AND SONS INC V
Assignee(s): (std): PATURZO BRO AND SONS INC V
Assignee(s): V PATURZO BRO AND SONS INC
Inventor(s): (std): SALVATORE PATURZO
Inventor(s): PATURZO SALVATORE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3155529 A	19641103	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: CONNECTING OF TAPERED SPIGOTS AND SOCKETS

Abstract: 1,160,769. Tool shanks. PADLEY and VENABLES Ltd. 19 Oct., 1967 [28 Oct., 1966], No. 48360/66. Heading B4C. [Also in Divisions B3 and F2] A tapered spigot or socket comprises ductile material secured thereto and standing proud of the tapered surface, the exposed area of the ductile material not exceeding 50 percent of the area of the tapered surface and projecting beyond the tapered surface by 1A5 percent -4A5 percent of the largest dimension in cross-section at the mid-point of the taper so that upon the spigot or socket being assembled tightly with a complementary socket or spigot the ductile material is extruded between and wiped over the tapered surfaces. The tapered surface may be of circular, polygonal or elliptical cross-section and can be used in connecting a rotary drill bit or a percussive **masonry** bit to a driving member. The ductile material may be copper, zinc, aluminium or alloys thereof, or a plastics material such as nylon, and it may be secured by an adhesive such as varnish. The ductile material may be secured to the spigot or socket or both. In an example, Fig. 2, a length of copper wire 4 is bent around an annular groove 3. Material of part-circular cross-section may be used, giving the insert a frusto-conical outer surface. Longitudinal inserts may be used, Figs. 3, 4 (not shown), which may run in a spiral fashion, the receiving slots being of rectangular or rounded cross-section. A filigree sleeve (11), Fig. 6 (not shown), of knitted copper wire may be used, secured by shellac. Sockets.-Grooves 10 of rectangular or rounded cross-section are provided for rectangular strips or wire, respectively.

Classifications:

International (IPC 8-9): B23B31/00 (Advanced/Invention);

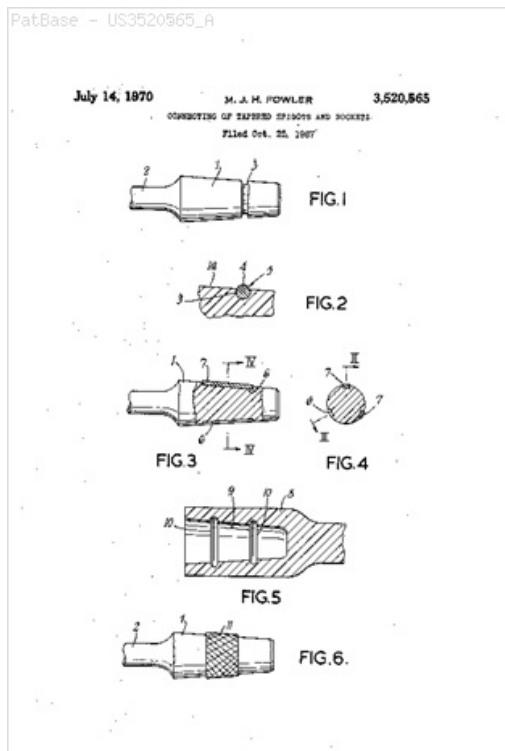
B23B31/00 (Core/Invention)

International (IPC 1-7): B23P11/02 B25D17/08 F16B1/00 F16B17/00 F16B2/00 F16B2/06 F16B21/00 F16B7/04

CPC: Y10T403/635 Y10T403/7077 B23B31/006 B23B222/21 B23B2228/28 B23B2231/0288 B23B2240/21 B23B2260/114 F16B2200/10

European: B23B31/00F L23B222/21 L23B228/28 L23B231/02P L23B240/21 L23B260/114

US: 287/126 403/334 403/361 403/377

**Family:**

Publication number	Publication date	Application number	Application date
GB1160769 A	19690806	GB19660048360	19661028
IE31838 B	19730110	IE19670001266	19671020
IE31838 L	19680428	IE19670001266	19671020
SE327374 B	19700817	SE19670014784	19671027
US3520565 A	19700714	US19670008088	19671025

Priority:

GB19660048360 19661028

Probable Assignee: G D M AND C LTD

Assignee(s): (std): PADLEY AND VENABLES LTD

Assignee(s): G D M AND C LTD ; PADLEY AND VENABLES LIMITED

Inventor(s): (std): FOWLER MICHAEL JOHN HENRY ; FOWLER M

Inventor(s): MICHAEL JOHN HENRY FOWLER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB1160769 A	19690806	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1160769 A	19691217	LSGT	+PS	PATENT SEALED	
GB1160769 A	19760519	LSLE	-PLNP	PATENT LAPSED THROUGH NONPAYMENT OF RENEWAL FEES	
GB1160769 A	19861028	PEXP		Calculated Patent Term Expiry	

IE31838 B	19730110	LSGT	+	granted / extensions (spc, cpc, pte)	
IE31838 B	19871020	PEXP		Calculated Patent Term Expiry	
SE327374 B	19700817	LSPB	+	published / reissued	
US3520565 A	19700714	LSGT	+	granted / extensions (spc, cpc, pte)	
US3520565 A	19850531	LSAS	AS	ASSIGNMENT	OWNER NAME : G-D M AND C LIMITED DESCRIPTION : CHANGE OF NAME; ASSIGNOR:PADLEY AND VENABLES LIMITED; REEL/FRA:004407/0340 EFFECTIVE DATE : 19850313
US3520565 A	19860128	LSAS	AS	ASSIGNMENT	OWNER NAME : G-D M AND C LIMITED DESCRIPTION : CHANGE OF NAME; ASSIGNOR:PADLEY AND VENABLES LIMITED; REEL/FRA:004503/0273 EFFECTIVE DATE : 19850213
US3520565 A	19871025	PEXP		Calculated Patent Term Expiry	

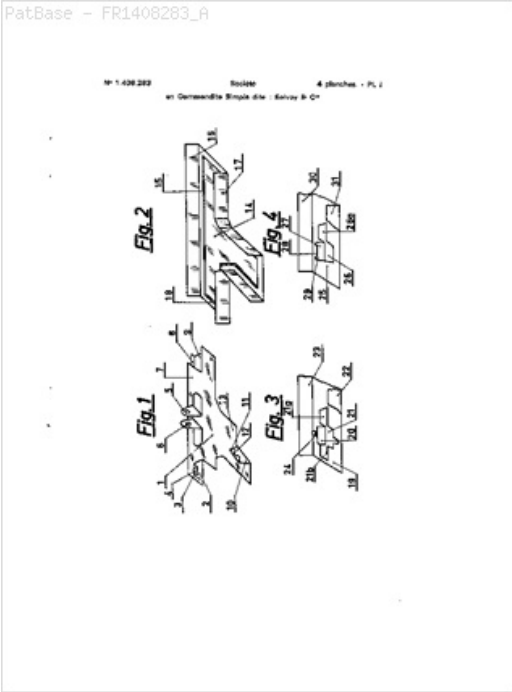
Title: PERFECTIONNEMENTS APPORTES A L'ASSEMBLAGE DES ELEMENTS DE CADRES PREFABRIQUES NOTAMMENT POUR PLAFONDS SUSPENDUS, AINSI QU' A LA SUSPENSION DES CADRES IMPROVEMENTS TO THE ASSEMBLY COMPONENTS FRAMES PREFABRICATED PARTICULAR CEILINGS, AS THE SUSPENSION OF EXECUTIVES (Machine translation)

Abstract: Source: FR1408283A [FR] [Source: Claim 1] 1. cadres suspendus, montes entre les deux parois verticales 42, 43 d'un local et, par exemple, accroches par des suspentes 47 au plafond ou la charpente 48 du local. Il se revele qu'en pratique l'assemblage d'un element, dans ses pieces de raccordement ne necessite en aucun cas l'ecartement des autres elements deja disposes. Ainsi, par exemple, les déplacements lateral b et vertical a de l'element 49' pour lui faire occuper la position 49 et le verrouiller dans cette position, ne necessitent nullement le déplacement des autres elements constitutifs des cadres. En effet, les ajourages 21a, 21b dans chaque extremite d'un profile (fig. 3) sont disposes de part et d'autre de la patte verticale 20, ce qui, dans n'importe quel sens d'engagement lateral, ne necessite pas un ecartement des raccords 50, 51, 52, etc. (fig. 7). Le meme assemblage est realisable avec un profile ne comportant qu'un seul ajourage a chacune de ses extremités, lesdits ajourages etant disposes en sens opposes par rapport a la patte 20. Les rebords coudes 4, 8, 11 des. pates, verticales 2, 9, 10 des pieces 1 des raccords sont identiques et de meme sens pour les assemblages variante A, variante B et variante C. Une fois positionnees, aucun ajourage n'est visible du dessous, l'aspect esthetique est ainsi obtenu. Il peut etre fait appel a un caisson reflecteur 70, dispose dans l'axe des profiles 50 (fig. 7) et comportant des tubes fluorescents 77 pour l'eclairage du plafond, en evitant toute incidence lumineuse degressive sur les panneaux peripheriques, dans le cas de panneaux en matiere plastique. Le maintien en place des panneaux sur les profiles est assure par des pieces de fixation, ou clips, du genre de celles representees figure 8. Cette piece comporte une embase 53, des pattes de fixation horizontales ou legerement obliques 54 et des ailes cintrees en opposition 55 et 56, partant de l'axe median de l'embase et sous lesquelles sont inseres et maintenus les bords des panneaux de remplissage, comme indique a la figure 9. Sur cette figure on voit, en coupe, un profile 57, dans lequel est bloquee, grace a une patte 54, l'embase 53 du clip entre les ailes verticales du profile, de section en U, 57. L'avantage de la disposition des ailes 55 et 56 partant de l'axe median de l'embase est de laisser un maximum de place sur les rebords d'appui du panneau 71 pour leur clipage. Une seule pression manuelle permet au clip d'etre mis en place et bloque en position dans le fond du profile 57. La figure 10, a considerer verticalement, represente une suspente 47 pour plafond, composee de deux tiges a crochets 61-63, de longueurs identiques ou non, solidarisees entre elles parallelement par une lame de ressort 58 repliee en forme de pincettes a branches 60 inegales; les branches 60 comportent des ajourages similaires en vis-a-vis. Chacun de ces ajourages est forme par une fente mediane 64 aboutissant a deux encoches 76 separees par un redan 59. Les tiges de suspension sont destinees a s'accrocher aux pattes 5 a trous 6 de la piece 1 des raccords. L'originalite du present dispositif est de permettre un reglage partiel en agissant sur une seule des tiges, ou total en agissant sur les deux simultanement. La fente centrale 61, de chaque ajourage rend les branches 60 du ressort 58 independantes des tiges ce qui rend amovible le ressort. Chaque tige coulisse uniquement lorsque les branches 60 sont amenees en position parallele; la dimension des encoches 76 du ressort 58 est tres legerement superieure au diametre des tiges; chaque tige comporte une extremite recourbee 62 afin qu'elle ne puisse, d'elle-meme, se degager, par coulissement des encoches 76 du ressort. Les tiges sont engagees dans le ressort par la fente centrale 64 et sont guidees parallelement par le redan 59 pour etre amenees dans le fond des encoches 76. Ces dernieres peuvent etre, a titre de variante, disposees sur les bords extérieurs des pattes 60. Figure 11, figure 12, variante d'accrochage: Une patte d'accrochage (fig. 11) de section Omega, comporte un trou central 68 dans son embase 69; les branches 74 sont coudees a leur extremite pour former des rebords d'accrochage 72 et 73; l'embase 69 comporte des prolongements lateraux 75, destines a maintenir en place une bille perforee 65 (fig. 12), fixee a l'extremite 66 d'une tige 67. Le diametre du trou 68 etant nettement superieur a celui de la tige 67, l'assemblage ainsi realise presente l'interet de se comporter partiellement comme une rotule sans jeu vertical, puisque maintenu par les pattes 75. Il est evident que l'invention peut faire l'objet de variantes non decrites qui ne sortent ni de son cadre, ni de son esprit. Les differents assemblages, pieces, elements, ont la possibilite d'avoir toutes dimensions techniquement realisables et peuvent etre remplaces par tous moyens equivalents.

RESUME Cette invention comprend les perfectionnements suivants apportes a l'assemblage des elements de cadres prefabriques, notamment pour plafonds suspendus, ainsi qu'a la suspension des cadres, lesquels perfectionnements peuvent etre pris separement ou selon les diverses combinaisons possibles: a. Les raccords ou pieces de raccordement comportent une embase externe dans laquelle est fixee une platine interne pourvue d'un moyen d'accrochage de suspentes; b. Les platines presentent a leurs extremités des pattes verticales conformees de facon a permettre un emboitage et un blocage vertical et horizontal des profiles dans les pieces de raccordement; c. Les platines des pieces de raccordement presentent a leurs extremités des pattes verticales comportant un rebord horizontal; d. Les profiles presentent dans leur base et a leurs extremités un ajourage suffisant pour permettre le passage des pattes verticales des platines des pieces de raccordement; e. Le blocage vertical des profiles dans les pieces de raccordement est obtenu par insertion des pattes verticales des profiles sous les rebords horizontaux des pattes des platines des pieces de raccordement; f. Le blocage horizontal des profiles dans les pieces de raccordement est obtenu au moyen de clips constitues par une semelle prenant appui sur les profiles et munie d'une perforation calibre permettant le passage au travers de la semelle des pattes verticales des profiles et des platines des pieces de raccordement; g. Le blocage horizontal des profiles dans les pieces de raccordement est obtenu par emboitage du plan horizontal des pattes des platines des pieces de raccordement entre deux bossages prevus au sommet des pattes verticales des profiles; h. Le blocage horizontal des profiles dans les pieces de raccordement est obtenu par emboitage des pattes verticales des profiles dans une echancrure prevue dans le rebord des pattes verticales des platines des pieces de raccordement; i. La fixation des elements de remplissage dans les cadres d'armature est obtenue par l'intervention de clips constitues d'une base plate munie de pattes de fixation horizontales ou obliques, prenant appui sur les ailes des profiles des cadres et comportant deux ailes cintrees en opposition partant d'un axe commun sous lesquelles sont inseres et maintenus les bords des elements de remplissage; j. La fixation des pieces de raccordement a la structure des locaux a equiper est obtenue au moyen de suspentes constitues de deux tiges coulissantes a crochets maintenees en place par un systeme a ressort; k. L'accrochage des suspentes aux pieces de raccordement est obtenu par introduction du crochet inferieur des suspentes dans les perforations de deux pattes souples et verticales prevues dans la platine interne des pieces de raccordement; l. L'accrochage des suspentes aux pieces de raccordement est obtenu au moyen de pieces en forme d'omega comportant deux pattes de fixation a rebords prenant appui dans des perforations rectangulaires ou carrees prevues dans les platines des pieces de raccordement, la fixation des suspentes auxdites pieces en forme d'omega etant realisee par passage des tiges inferieures des suspentes au travers de perforations prevues dans les pieces en forme d'omega et blocage de l'ensemble au moyen d'une bille fixee en bout des tiges inferieures des suspentes. **Machine translation:** [Source: Claim 1] 1. suspended frames mounted between two vertical walls 42, 43 and a local, e.g., by suspension hooks 47 on the ceiling or the frame 48 of the room. He revealed that in practice assembling an element in its connecting parts does not need in any case the spacing of the other items already willing. For example, the lateral displacements b and a vertical element of 49' to make him occupy the position 49 and lock in this position does not require moving other constituent parts of the frames. In fact, the cut-outs 21a, 21b in each end of a profile (Fig. 3) are arranged on either side of the vertical leg 20, which, in any direction lateral engagement, does not need not a spacing of the fittings 50, 51, 52, etc. (Fig. 7). The same assembly is feasible with a profile containing only one ajourage each of its ends, said cut-outs being willing in opposite directions relative to the bracket 20. The elbows flanges 4, 8, 11. covenants, vertical 2, 9, 10 rooms 1 connectors are identical and same direction for assemblies variant A, variant B and variant C. Once in position, no ajourage is visible from below, the aesthetic aspect is well got. It can be called a reflector box 70, has in the axis of the profiles 50 (fig. 7) and comprising fluorescent tubes 77 for ceiling lighting, avoiding any light degressive impact on peripheral boards in the if out of plastic panels. Keeping up panels on profiles is ensured by fixing parts or clips, such as those represented Figure 8. This room includes a base 53 horizontal mounting tabs or slightly oblique wings 54 and bent in a opposition 55 and 56, starting from the median axis of the base and in which are inserted and held the edges of the filling panels, as shown in Figure 9. this figure shows, in section, a profile 57, wherein is blocked, thanks to a tab 54, the base 53 of the clip between the vertical flanges of the profile, U-section, 57. the advantage of the arrangement of the wings 55 and 56 extending from the median axis of the base is to leave plenty of space on the panel supporting flanges 71 for their clipping. One manual pressure allows the clip to be set up and locks into place in the profile of the bottom 57. Figure 10, consider a vertically represents a ceiling hanger 47, composed of two rods has 61-63 hooks, lengths identical or not, joined together in parallel by a leaf spring 58 bent in the shape of tweezers has unequal arms 60; 60 branches have similar openwork vis-a-vis. Each of these cut-outs is formed by a median slit 64 leading two notches 76 separated by a recess 59. The suspension rods are meant to cling to the legs 5 has holes 6 of the part 1 of the fittings. The originality of this device is to allow a partial adjustment by acting on a single stem, or total by acting on both simultaneously. The central slot 61, each ajourage makes 60 branches of the spring 58 independent rods

which makes removable spring. Each rod slides only when the legs 60 are brought into parallel position; the size of the notches 76 of the spring 58 is very slightly superior to the diameter of the rods; each rod has one end bent 62 so that it can, of itself, to develop; by sliding the notches 76 of the spring. The rods are engaged in the spring by the central slot 64 and are guided in parallel with the recess 59 to be brought into the bottom of the notches 76. These last may be, has alternatively disposed on the outer edges of the tabs 60. Figure (fig. 11): 11, Figure 12, variant a hooking lug for hooking Omega section, comprises a central hole 68 in its base 69; the branches are 74 cubits at their extremity to form attachment flanges 72 and 73; the base 69 has lateral extensions 75, intended to hold in place a perforated ball 65 (Fig. 12) fixed at the extremity 66 of a rod 67. The diameter of the hole 68 being significantly higher than that of the rod 67, the assembly thus realized presents the interest to act partly as a ball without vertical play, as maintained by the tabs 75. It is obvious that the invention may be non described variants which depart neither of its scope or its spirit. The various assemblies, parts and components, have the opportunity to have all technically achievable dimensions and can be replaced by any equivalent means.SUMMARY This invention includes the following enhancements bringest has the assembly of the elements of prefabricated frames, especially for suspended ceilings, as well as to the suspension frames, which improvements can be taken separately or in various combinations: a. Connections or connection pieces comprise an outer base in which is fixed an inner plate provided with a hooking means of hangers; b. The plates have at their ends of the vertical legs shaped to allow a slippage and a vertical and horizontal locking profiles in the connecting parts; c. The plates of the connecting parts at their ends of the vertical legs having a horizontal flange; d. The profiles have in their base and their ends ajourage sufficient to allow passage of the vertical legs of the decks connecting rooms; e. The vertical locking profiles in the connecting pieces is obtained by insertion of the vertical legs of the profiles under the horizontal edges of the lugs of the plates of the connecting parts; f. The horizontal locking profiles in the connecting parts is achieved by means of clips MADE by a sole building on profiles and provided with a perforation Calibrated allowing passage through the base of the vertical legs of the profiles and plates of parts connection; g. The horizontal locking profiles in the connecting parts is obtained by slippage the horizontal legs of the decks connecting pieces between two bosses provided at the top of the vertical legs of the profiles; h. The horizontal locking profiles in the connection parts is achieved by fitting the vertical legs of the profiles in a notch provided in the edge of the vertical legs of the plates of the connecting parts; i. Fixing the filling elements in the reinforcing frames is obtained by the intervention of clips composed of a flat base provided with horizontal or oblique fixing lugs, bearing on the flanges of the frames and including two flanges bent in a opposition starting from a common axis, under which are inserted and held the edges of the filling elements; j. The attachment of connecting parts to the local structure equip is obtained by means of lines consisting of two sliding rods has hooks held in place by a spring system has; k. The attachment of the lines connecting the parts is obtained by introduction of the lower hook hangers into the holes of two flexible and vertical tabs provided for in the internal plate connecting parts; l. The attachment of the lines connecting the parts is achieved by means of pieces in the form of omega with two mounting lugs is taking support edges in rectangular or square perforations in the plates provided for connecting pieces, fixing lines said parts shaped omega being performed by passing the lower stems of the lines provided for through perforations in parts omega shaped and blocking all using a ball fixed to the end of the lower stems of the lines.

Classifications:
International (IPC 8-9): E04B9/14 E04B9/20 (Advanced/Invention); E04B9/06 E04B9/18 (Core/Invention)
International (IPC 1-7): E04B5/55 E04B5/58
CPC: E04B9/14 E04B9/20
European: E04B9/14 E04B9/20



Family:

Publication number	Publication date	Application number	Application date
BE664862 A	00000000		00000000
ES314651 A1	19660601	ES19650314651	19650625
FR1408283 A	19650813	FR19640980201	19640630
NL6507986 A	19651231	NL19650007986	19650622

Priority:

FR19640980201 19640630

Probable Assignee: SOLVAY

Assignee(s): (std): SOLVAY

Assignee(s): SOLVAY AND CIE ; SOLVAY AND COMP ; SOLVAY AND COMPAGNIE

Legal status (INPADOC)

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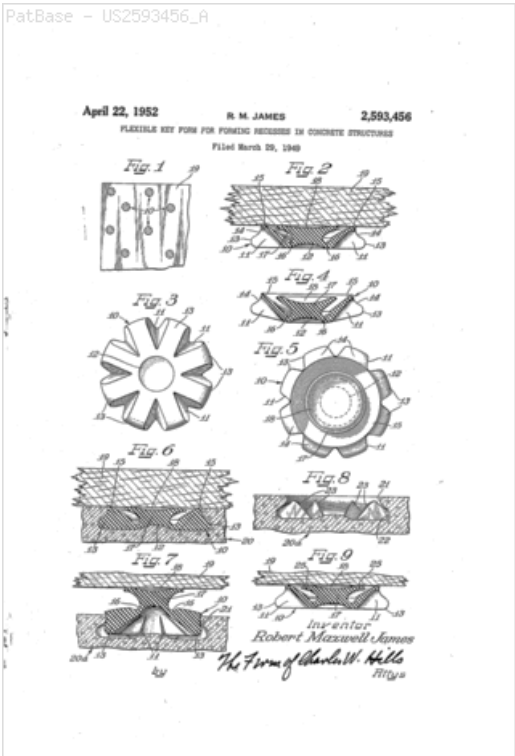
Patent	Date recorded	Event group	Code	Event	Details
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BE664862 A	19200101	PEXP		Calculated Patent Term Expiry	
ES314651 A1	19660601	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1408283 A	19650813	LSGT	+	granted / extensions (spc, cpc, pte)	

FR1408283 A	19840630	PEXP		Calculated Patent Term Expiry
NL6507986 A	19651231	LSPB	+	published / reissued

Title: FLEXIBLE KEY FORM FOR FORMING RECESSES IN CONCRETE STRUCTURES

Abstract: (Claim 1) 1. A flexible key form defining a disk having plurality of spaced radial tongues and grooves 20- on one face thereof, a circular lip of smaller di- _suction cup portion interiorly of said lip portion, said key form defining a recessed hinge area in ihe locale between said lip and suction cup portions.

Classifications:
International (ipc 8-9): B28B7/00 B28B7/30
E04G15/06 (Advanced/Invention);
B28B7/00 B28B7/28 E04G15/00 (Core/Invention)
International (ipc 1-7): E04F19/08 E04G15/04
CPC: Y10S425/044 B28B7/303 B28B7/0064 E04G15/063
European: B28B7/00F B28B7/30B E04G15/06C
US: 249/183 249/35 249/98 425/DIG.44 52/577



Family:

Publication number	Publication date	Application number	Application date
US2593456 A	19520422	US19490084062	19490329

Priority:

US19490084062 19490329

Probable Assignee:	MAXWELL JAMES ROBERT
Assignee(s): (std):	MAXWELL JAMES ROBERT
Inventor(s): (std):	MAXWELL JAMES ROBERT
Inventor(s):	JAMES ROBERT MAXWELL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2593456 A	19520422	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Conveyer roller

Abstract: 1 Q.

Classifications:

International (IPC 8-9): B65G47/31 C03B25/06

C03B25/08 (Advanced/Invention);

B65G47/31 C03B25/00 (Core/Invention)

International (IPC 1-7): B65G13/075 B65G13/11 C03B25/06

C03B25/08

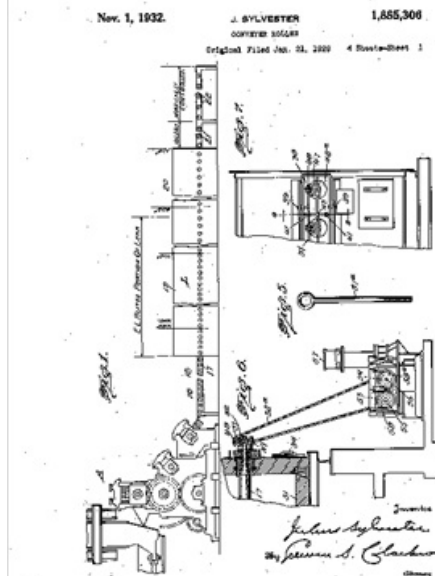
CPC: C03B25/08 B65G47/31 C03B25/06

European: B65G47/31 C03B25/06 C03B25/08

US: 193/37 198/579 198/780 198/783 198/791 219/388 219/398

384/419 65/163 65/254 65/349 65/96

PatBase - US1885306_A



Family:

Publication number	Publication date	Application number	Application date
US1838592 A	19311229	US19300418578	19300104
US1856668 A	19320503	US19300418575	19300104
US1856669 A	19320503	US19300418576	19300104
US1868856 A	19320726	US19300418577	19300104
US1879998 A	19320927	US19290333887	19290121
US1885306 A	19321101	US19310552243	19310721

Priority:

US19290333887 19290121	US19300418575 19300104	US19300418576 19300104
US19300418578 19300104	US19300418577 19300104	US19310552243 19310721

Probable Assignee: SIMPLEX ENGINEERING COMPANY

Assignee(s): (std): SIMPLEX ENGINEERING CO ; SIMPLEX ENGINEERING COMPANY

Inventor(s): (std): JULIUS SYLVESTER

Inventor(s): SYLVESTER JULIUS

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US1838592 A	19311229	LSGT	+	granted / extensions (spc, cpc, pte)	
US1856668 A	19320503	LSGT	+	granted / extensions (spc, cpc, pte)	
US1856669 A	19320503	LSGT	+	granted / extensions (spc, cpc, pte)	
US1868856 A	19320726	LSGT	+	granted / extensions (spc, cpc, pte)	
US1879998 A	19320927	LSGT	+	granted / extensions (spc, cpc, pte)	
US1885306 A	19321101	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: APPARATUS FOR PRODUCING A PREFABRICATED **WALL**

Abstract: Apparatus for producing a prefabricated **wall**, forming in the process structural-element rows which are connected to one another with the aid of an adhesive, horizontal joints being formed in the process, it being the case that the adhesive is applied to each structural-element row, in the longitudinal direction thereof, by means of a non-continuous substrate-material web which is left in the horizontal joints and, at the same time, forms a reinforcement of the prefabricated **wall**, and it being the case that there are arranged above a structural-element row which is to be provided with adhesive, on a framework 5 or the like which can be displaced along said structural-element row, a supply container 4 for adhesive and a supply roll 3 for the substrate-material web 2, which is guided through the supply container,, which is provided with an outlet slot(4' of predetermined thickness for the purpose of coating the material web on one side or on both sides.

Classifications:

International (IPC 8-9): E04C2/04 E04F21/00 (Advanced/Invention);
E04C2/04 E04F21/00 (Core/Invention)

International (IPC 1-7): E04B2/02

CPC: E04C2/041 E04F21/00

European: E04C2/04B E04F21/00

PatBase - AT390983_B

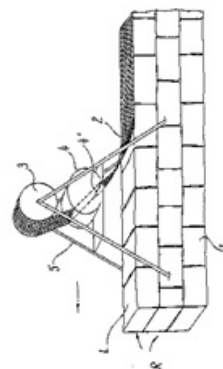
ÖSTERREICHISCHES PATENTAMT

Ausgegeben 25.7.1990

Blz. 1

Patentschrift Nr. 298 983

24. CL. 1. E04B 2/02



Family:

Publication number	Publication date	Application number	Application date
AT318987 A	19900115	AT19870003189	19871203
AT390983 B	19900725	AT19870003189	19871203

Priority:

AT19870003189 19871203

Probable Assignee:

SCHAUERHUBER ERNST

Assignee(s): (std):

SCHAUERHUBER ERNST

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT318987 A	19900115	LSPB	+	published / reissued	
AT390983 B	19900725	LSGT	+	granted / extensions (spc, cpc, pte)	
AT390983 B	19941015	LSLE	-ELJ	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT390983 B	20071203	PEXP		Calculated Patent Term Expiry	

Title: MOTORIZED SWINGING SHUTTER-UNIT FOR USE IN **BUILDING**, HAS DRIVING MECHANISM COMPRISING ACTUATOR THAT IS PLACED IN INTERIOR HOUSING, WHERE MECHANISM IS PROVIDED WITH OUTPUT AXIS IN DIRECT CONTACT WITH BUTT HINGE OF DOOR LEAF

Abstract: The unit (1) has a door leaf (2) connected to a fixed framework (3) by a hinge (4) and coupled to a driving mechanism (5). The door leaf is moved automatically between a closed position and an open position conversely. The fixed framework comprises two side posts (30, 31) parallelly connected to each other respectively by an upper cross-piece (32) and a lower cross-piece (33). The driving mechanism comprises an actuator i.e. electric motor, placed in an interior housing and provided with an output axis in direct contact with a butt hinge (41) of the door leaf.

Classifications:

International (IPC 8-9): E05C17/56 E05F15/12

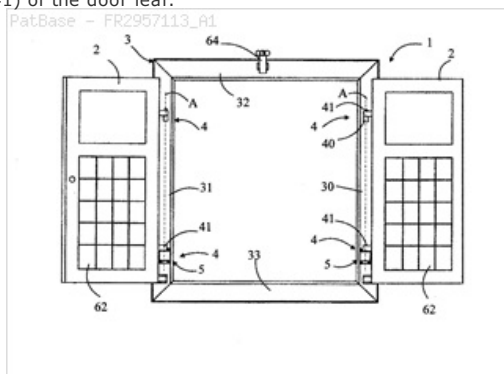
E06B9/04 (Advanced/Invention)

CPC: E05F15/614 E05F15/71 E05Y2201/434 E05Y2400/628

E05Y2600/41 E05Y2800/28 E05Y2900/146

European: E05F15/12B P05Y201/434 P05Y400/628 P05Y600/41

P05Y800/28 P05Y900/146



Family:

Publication number	Publication date	Application number	Application date
FR2957113 A1	20110909	FR20100051592	20100305

Priority:

FR20100051592 20100305

Probable Assignee:

VOREAL

Assignee(s): (std):

VOREAL

Inventor(s): (std):

BORRACCINO GIUSEPPE

Inventor(s):

GIUSEPPE BORRACCINO

Agent(s):

CABINET NITHARDT ET ASSOCIES

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2957113 A1	20110909	LSPB	+	published / reissued	
FR2957113 A1	20120330	LSFE	PLFP	Fee Payment (FEE PAYMENT)	PAYMENT DATE : 20120330 YEAR OF FEE PAYMENT : 3
FR2957113 A1	20130402	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2957113 A1	20131227	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20131129

Title: SCHALUNG

Abstract: A shuttering arrangement 1 for constructing structural units has inner shuttering 2 and outer shuttering 3. In order for it to be possible, during construction, for the visible surface to be assembled from blocks cost- effectively and with a satisfactory finish, the outer shuttering 3, which is assigned to the visible surface, has openings which result in a latticework formation, and preferably comprises horizontal strips 3a, 3b.

Classifications:

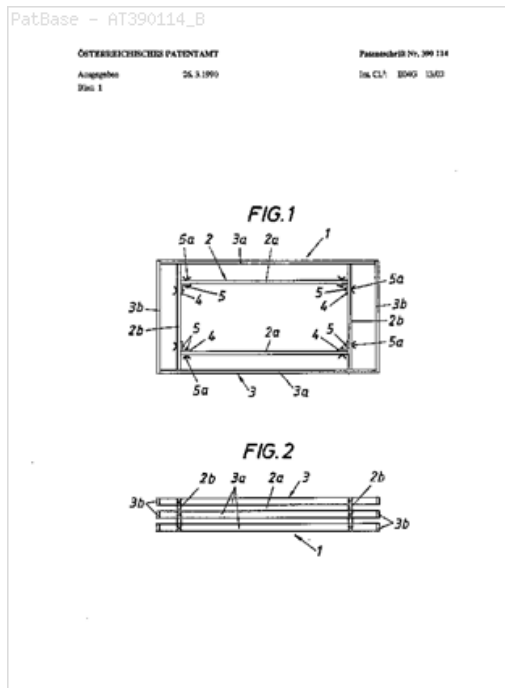
International (IPC 8-9): E04G21/18 (Advanced/Invention);

E04G21/18 (Core/Invention)

International (IPC 1-7): E04G13/02

CPC: E04G21/1858 E04G21/1841

European: E04G21/18C



Family:

Publication number	Publication date	Application number	Application date
AT302786 A	19890815	AT19860003027	19861114
AT390114 B	19900326	AT19860003027	19861114

Priority:

AT19860003027 19861114

Probable Assignee: BEINHUNDNER GEORG

Assignee(s): (std): BEINHUNDNER GEORG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT302786 A	19890815	LSPB	+	published / reissued	
AT390114 B	19900326	LSGT	+	granted / extensions (spc, cpc, pte)	
AT390114 B	19930515	LSLE	-ELJ	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT390114 B	20061114	PEXP		Calculated Patent Term Expiry	

Title: DEMAND SIDE MANAGEMENT STRUCTURES

Abstract: An improved **building** panel and attachment system for the production of structures with improved energy efficiency and fire safety characteristics. Panels are formed from a structural angle I beam with angles emerging from a web and forming dovetail shaped channels. The dovetail channels provide anchorage points for cross members within the panels as well as weather-stripping and mechanical joints between panels and a **building** frame. The unique assembly method allows the insulation value and fire safety of the **building** to be radically improved over conventional commercial structures. Fiberglass can be combined with low thermal conductivity gases such as Argon to improve R-Values by about 40 percent over existing **building** stock. Heat and smoke can be vented from the **building** during a fire to slow the onset of flashover and the safety of fire fighting personnel can be enhanced when they reach the fire scene. Improved insulating panels, daylighting panels with light attenuation and heat dissipation means, as well as solar panels for solar heating and night sky cooling are shown. These can be assembled into a variety of functional roof and **wall** configurations for reducing **building** operating costs and creating more attractive retail and commercial **buildings**. Improved air distribution systems, and thin film collectors allow for production of an entire roof of collectors at a reasonable cost. Novel assembly methods allow for improvements in construction cost and safety. An advanced control system for balancing daylighting and artificial lighting is shown, along with a demand side management, (DSM), energy utilization system.

Classifications:

International (IPC 8-9): E04B7/02 E04C3/06 E04D12/00 E04D13/16 E04D3/36 E04D3/367 E04D3/38 E06B7/086 F24D11/02

F24J2/04 (Advanced/Invention);

E04C3/04 (Advanced/Non-invention);

E04B7/02 E04C3/04 E04D12/00 E04D13/16 E04D3/00 E04D3/36

E06B7/02 F24D11/00 F24J2/04 (Core/Invention)

International (IPC 1-7): E04B1/32 E04C3/04 E04C3/30

CPC: Y02E10/47 E04C3/06 E04C2003/0413 E04C2003/0421

E04C2003/0434 E04C2003/0452 E04D3/364 E04D3/366 E04D3/38

E04D12/004 E04D13/1625 E06B7/086 F24D11/0221 Y02B10/20

Y02B10/70 Y02E10/44 F24S20/67 F24S25/632 F24S25/636

F24S25/67 F24S2025/022 E04B7/024

European: E04B7/02A2 E04C3/06 E04D12/00C E04D13/16A1C

E04D3/364 E04D3/366 E04D3/38 E06B7/086 F24D11/02C2

F24J2/04B12 F24J2/52A20C2 F24J2/52A20C4B F24J2/52A20E

P04C3/04S1S P04C3/04S1U P04C3/04S2B P04C3/04S3H

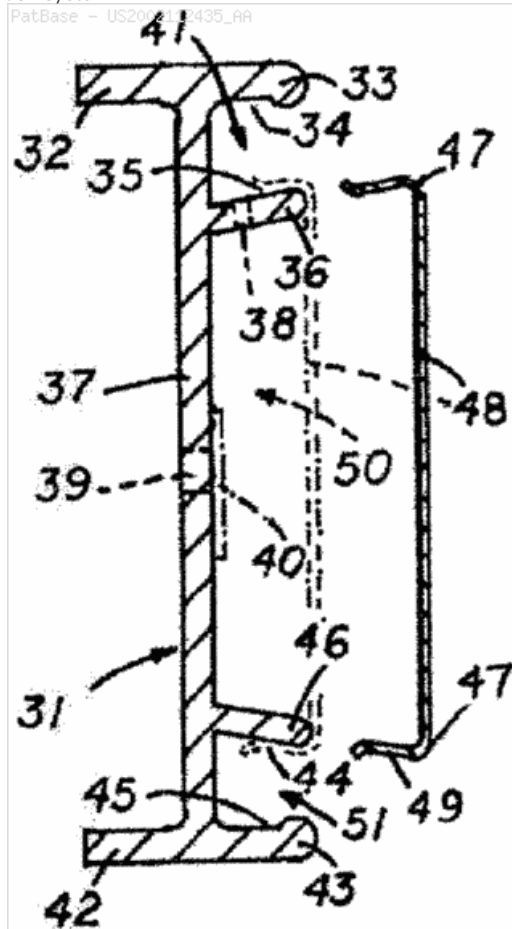
R24J2/52P26 Y02B10/20 Y02B10/40 Y02B10/70 Y02B30/12B2

Y02E10/44

US: 52/643 52/643S 52/647 52/647S 52/648.1 52/648.100P

52/720.1 52/729.1 52/729.2 52/730.1 52/737.1 52/831 52/831P

52/838

**Family:**

Publication number	Publication date	Application number	Application date
US2002112435 AA	20020822	US20010897215	20010702
US2004123550 AA	20040701	US20030624363	20030722
US6959520 BB	20051101	US20030624363	20030722

Priority:

US20000215919P 20000703 US20010897215 20010702 US20030624363 20030722

Probable Assignee:

HARTMAN PAUL H

Assignee(s): (std):

HARTMAN PAUL H

Inventor(s): (std):

HARTMAN PAUL H

Inventor(s):

PAUL H HARTMAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2002112435 AA	20020822	LSPB	+	published / reissued	
US2002112435 AA	20031021	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2004123550 AA	20040701	LSPB	+	published / reissued	

US6959520 BB	20051101	LSGT	+	granted / extensions (spc, cpc, pte)	
US6959520 BB	20051012	LSGT	PAT1	Patented Case	
US6959520 BB	20081212	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6959520 BB	20130607	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6959520 BB	20171127	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US6959520 BB	20171127	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6959520 BB	20171127	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6959520 BB	20171219	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20171101
US6959520 BB	20240406	PEXP		Calculated Patent Term Expiry (PTA 259 days)	

Title: CONSTRUCTION AND OPERATION OF REGENERATORS

Abstract: 1. A regenerator including a main body of checkerwork adapted to receive and deliver the hot waste gases of a furnace, an auxiliary body of checkerwork arranged above said main body of checkerwork for condensing vapors included in the gases on their way into said main body of checkerwork, and means arranged between said bodies of checkerwork for removing the condensate from the flowing gases.

Classifications:

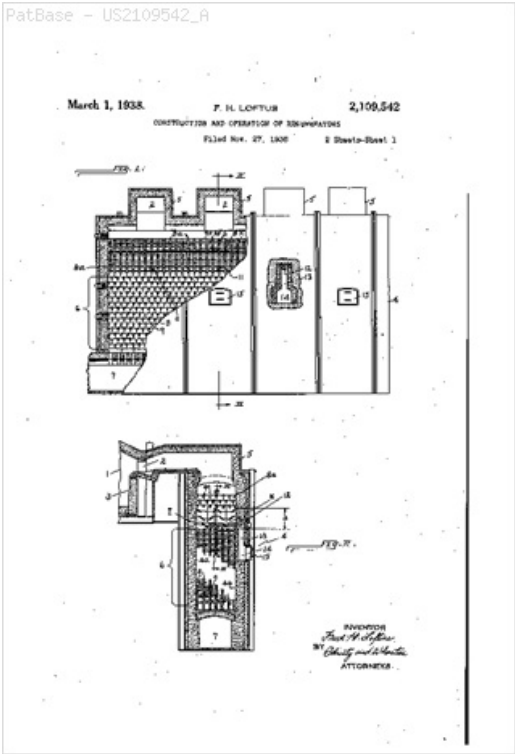
International (IPC 8-9): F28D17/02 (Advanced/Invention);
F28D17/00 (Core/Invention)

International (IPC 1-7): F28D17/02

CPC: F28D17/02

European: F28D17/02

US: 432/181 432/2 432/71



Family:

Publication number	Publication date	Application number	Application date
US2109542 A	19380301	US19360112872	19361127

Priority:

US19360112872 19361127

Probable Assignee: LOFTUS FRED H

Assignee(s): (std): LOFTUS FRED H

Inventor(s): (std): LOFTUS FRED H

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2109542 A	19380301	LSGT	+	granted / extensions (spc, cpc, pte)	

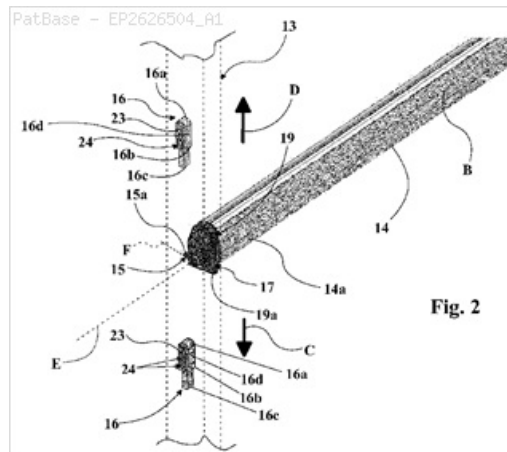
Title: SCREEN ROLLER BLIND STORE A ENROULEMENT AVE

Abstract: Screen roller blind (12) provided with a frame (10a) comprising: a roller (11) on which said screen (12) can be wound and unwound (12); rails (13) extending from the roller (11) along an extension direction (A); a crosspiece (14) developing along a development direction (B) perpendicular to the extension direction (A) of the rails (13), and selectively sliding along the extension direction (A) of the rails (13) according to an unwinding direction (C) of the screen (12), or according to a winding direction (D) of the screen (12). Moreover, the screen roller blind (10) comprises a blocking device (100) which comprises a blocking element (15) mechanically connected to an end (14a, 14b) of the crosspiece (14) and provided with at least an extension (15a) elongated in a projecting direction (F) substantially perpendicular to the development direction (B) of the crosspiece (14), the blocking element (15) being able to oscillate with respect to the crosspiece (14), according to an axis of oscillation (E) substantially parallel to the development direction (B) of the crosspiece (14), between a locking position in which the extension (15a) is partially facing towards the winding direction (D) of the screen (12), and an unlocking position in which the extension (15a) is partially facing towards the unwinding direction (C) of the screen (12). This blocking device (100) also comprises at least a stopping block (16) fastened to one of the rails (13), susceptible of being engaged by the blocking element (15) to prevent the crosspiece (14) from sliding in the winding direction (D) of the screen (12), and a counter-thrust portion (17) mechanically connected to the crosspiece (14) and susceptible of abutting on the guide (13), upon the engagement of the blocking element (15) with the stopping block (16), to keep the blocking element (15) interfering with the stopping block (16).

Classifications:

International (IPC 8-9): E06B9/86 (Advanced/Invention)

CPC: E06B9/86



Family:

Publication number	Publication date	Application number	Application date
DE602013000194 D1	20141009	DE201360000194T	20130208
EP2626504 A1	20130814	EP20130154730	20130208
EP2626504 B1	20140827	EP20130154730	20130208
ITPD20120031 A1	20130810	IT2012PD00031	20120209

Priority:

IT2012PD00031 20120209 EP20130154730 20130208

Probable Assignee: GIBUS SPA

Assignee(s): (std): GIBUS S P A ; GIBUS S R L

Assignee(s): GIBUS SACCOLONGO SPA ; GIBUS SPA ; GIBUS SRL

Inventor(s): (std): DANIELI LORENZO

Agent(s): GILLE HRABAL; GALLO LUCA

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
EP2626504 A1	20130814	LSPB	+	published / reissued	
EP2626504 A1	20130925	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : GIBUS S.P.A.
EP2626504 A1	20140326	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20140214
EP2626504 A1	20140416	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20140321
EP2626504 A1	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160218 YEAR OF FEE PAYMENT : 4
EP2626504 A1	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160229 YEAR OF FEE PAYMENT : 4

EP2626504 A1	20160429	LSFE	+PGFP	TO EPO] ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160217 YEAR OF FEE PAYMENT : 4
EP2626504 A1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160218 YEAR OF FEE PAYMENT : 4
EP2626504 B1	20140827	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2626504 B1	20140827	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2626504 B1	20140829	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2626504 B1	20140915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 684637 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20140915
EP2626504 B1	20140924	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2626504 B1	20141009	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602013000194 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20141009
EP2626504 B1	20150115	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 684637 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20140827
EP2626504 B1	20150126	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2626504 B1	20150128	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20140827
EP2626504 B1	20150130	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 : 20140827
EP2626504 B1	20150130	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 : 20140827
EP2626504 B1	20150130	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 : 20140827
EP2626504 B1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING	COUNTRY OF REF DOCUMENT : NO

				STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141127
EP2626504 B1	20150130	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 : 20140827
EP2626504 B1	20150130	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 : 20141128
EP2626504 B1	20150130	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 : 20141229
EP2626504 B1	20150130	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 : 20141127
EP2626504 B1	20150227	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 : 20140827
EP2626504 B1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140827
EP2626504 B1	20150227	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 : 20141227
EP2626504 B1	20150227	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 : 20140827
EP2626504 B1	20150227	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 : 20140827
EP2626504 B1	20150227	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT :

				CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140827
EP2626504 B1	20150331	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 : 20140827
EP2626504 B1	20150430	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 : 20140827
EP2626504 B1	20150430	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 : 20140827
EP2626504 B1	20150430	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 : 20140827
EP2626504 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140827
EP2626504 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140827
EP2626504 B1	20150528	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602013000194 COUNTRY OF REF DOCUMENT : DE
EP2626504 B1	20150529	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 : 20140827
EP2626504 B1	20150805	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20150528
EP2626504 B1	20150930	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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150208

EP2626504 B1	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC 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 : 20140827
EP2626504 B1	20151118	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2626504 B1	20151130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140827
EP2626504 B1	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150208
EP2626504 B1	20160218	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 : 4
EP2626504 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE 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 : 20140827
EP2626504 B1	20161230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MT 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 : 20140827
EP2626504 B1	20170217	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 : 5
EP2626504 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170217 YEAR OF FEE PAYMENT : 5
EP2626504 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170217 YEAR OF FEE PAYMENT : 5
EP2626504 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20170217 YEAR OF FEE PAYMENT : 5
EP2626504 B1	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HU NOTIFICATION OF LAPSE : 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 : 20130208
EP2626504 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170124 YEAR OF FEE PAYMENT : 5

EP2626504 B1	20170831	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 : 20140827
EP2626504 B1	20171025	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20170208
EP2626504 B1	20180223	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 6
EP2626504 B1	20180228	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 : 20170208
EP2626504 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20180219 YEAR OF FEE PAYMENT : 6
EP2626504 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20180216 YEAR OF FEE PAYMENT : 6
EP2626504 B1	20180531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SM NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140827
EP2626504 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20180223 YEAR OF FEE PAYMENT : 6
EP2626504 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20180130 YEAR OF FEE PAYMENT : 6
EP2626504 B1	20180629	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140827
EP2626504 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140827
EP2626504 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20190129 YEAR OF FEE PAYMENT : 7
EP2626504 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20190218 YEAR OF FEE PAYMENT : 7
EP2626504 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20190219 YEAR OF FEE PAYMENT : 7

EP2626504 B1	20190531	LSFE	+PGFP	NATIONAL OFFICE TO EPO]	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20190220 YEAR OF FEE PAYMENT : 7
EP2626504 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20200219 YEAR OF FEE PAYMENT : 8
EP2626504 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20200128 YEAR OF FEE PAYMENT : 8
EP2626504 B1	20200529	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20200219 YEAR OF FEE PAYMENT : 8
EP2626504 B1	20200630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20200219 YEAR OF FEE PAYMENT : 8
EP2626504 B1	20330208	PEXP		Calculated Patent Term Expiry		
ITPD20120031 A1	20130810	LSPB	+	published / reissued		

Title: Collapsible multilevel **building**

Abstract: There is described a collapsible **building** formed by at least one unit comprising at least one level, in which the floor and the ceiling of a unit are hinged together by means of braces, the ends of which on the one hand to upturned floor edges and on the other hand, to downturned ceiling edges, so as to be swingable in a vertical plane.

Classifications:

International (IPC 8-9): E04B1/344 E04H1/04 (Advanced/Invention);

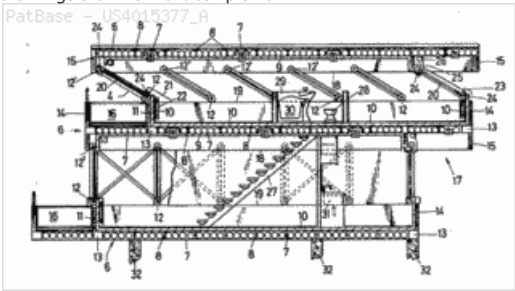
E04B1/344 E04H1/04 (Core/Invention)

International (IPC 1-7): E04B1/344

CPC: E04B1/3441 E04H1/04

European: E04B1/344B E04H1/04

US: 52/236.4 52/236.8 52/66 52/73 52/79.2



Family:

Publication number	Publication date	Application number	Application date
US4015377 A	19770405	US19750645312	19751229

Priority:

US19740497079 19740813 US19750645312 19751229

Probable Assignee: JASTRZEBSKI ANDRZEJ

Assignee(s): (std): JASTRZEBSKI ANDRZEJ

Inventor(s): (std): JASTRZEBSKI ANDRZEJ

Legal status (INPADOC)

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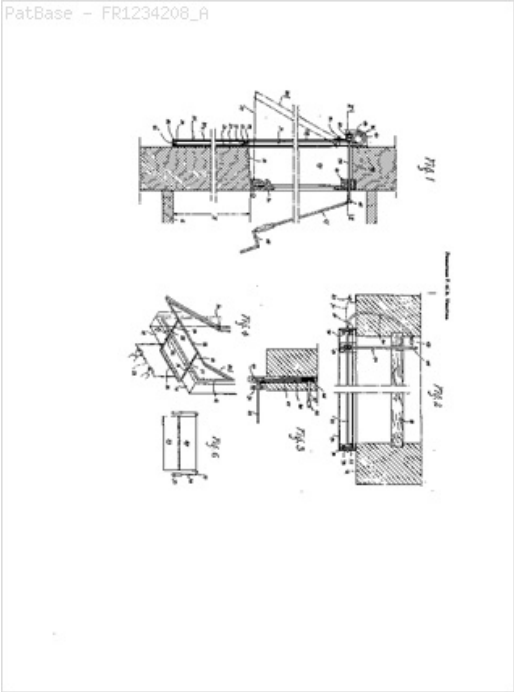
Patent	Date recorded	Event group	Code	Event	Details
US4015377 A	19770405	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: FERMETURE, NOTAMMENT POUR CONSTRUCTIONS EN MURS-RIDEAUX ET PANNEAUX DE FACADE CLOSURE, PARTICULARLY FOR **BUILDING** IN CURTAIN **WALL** AND FRONT PANEL (Machine translation)

Abstract: Source: FR1234208A [FR] (Claim 1) RESUME Fermeture de fenetre, notamment pour constructions en murs-rideaux et panneaux de facades, remarquable notamment par les points suivants pris separement ou en combinaisons a.

Machine translation: (Claim 1) SUMMARY Window closes, including constructions in curtain **walls** and panels for facades, remarkable in particular for the following taken separately or in combinations a.

Classifications:
International (IPC 8-9): E06B9/92 (Advanced/Invention);
E06B9/56 (Core/Invention)
International (IPC 1-7): E06B9/22
CPC: E06B9/92
European: E06B9/92



Family:

Publication number	Publication date	Application number	Application date
FR1234208 A	19601014	FR19590794395	19590512

Priority:

FR19590794395 19590512

Probable Assignee: FERMETURES F M B
Assignee(s): (std): FERMETURES F M B
Assignee(s): FERMETURES F M B VENDOME

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR1234208 A	19601014	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1234208 A	19790512	PEXP		Calculated Patent Term Expiry	

Title: Refractory compound bricks and methods of making the same

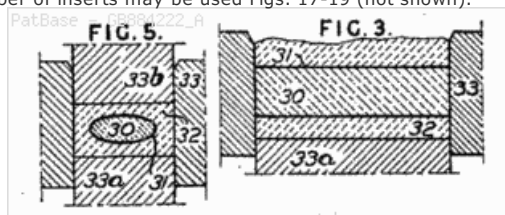
Abstract: 884,222. Moulding refractory bricks. LICENCIA TALALMANYOKAT ERTEKESITO VALLALAT. Aug. 19, 1959 [Aug. 30, 1958], No. 38412/59. Class 87(2). [Also in Group XII] A compound refractory brick (see Group XII) is moulded by placing jacket material on the bottom pressure plate 33a of a mould 33, adding a cylindrical insert 31 filled with refractory, covering with a further layer of jacket material and compressing between plates 33a, 33b to a pressure of at least 1000 kilograms/square cm. The insert takes up the elliptical form shown in Fig. 5. The insert may be initially of rectangular section pressing out to a rhombic section, Figs. 12-14 (not shown), or a number of inserts may be used Figs. 17-19 (not shown).

Classifications:

International (IPC 8-9): B28B23/00 F23M5/06 F27D1/08 (Advanced/Invention)

CPC: B28B23/0018 F23M5/06 F27D1/08

European: B28B23/00C F23M5/06 F27D1/08



Family:

Publication number	Publication date	Application number	Application date
GB884222 A	19611213	GB19590028412	19590819

Probable Assignee: LICENCIA TALALMANYOKAT

Assignee(s): (std): LICENCIA TALALMANYOKAT

Assignee(s): LICENTIA TALALMANYOKAT ERTEKESITO VALLALAT

Legal status (INPADOC)

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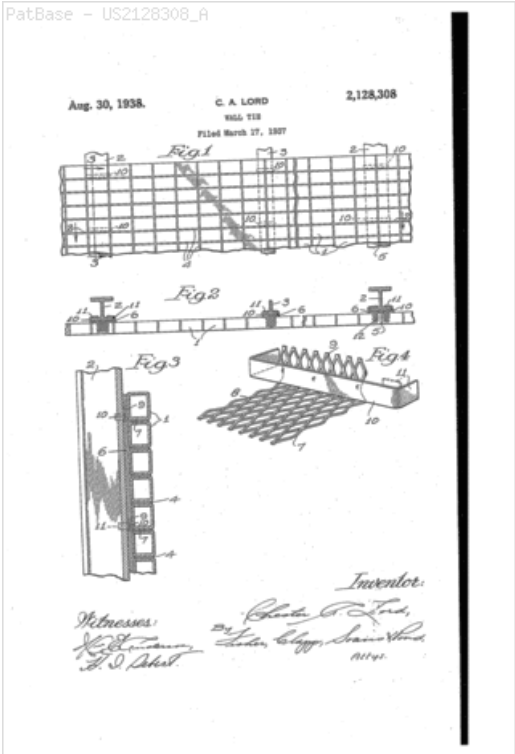
Patent	Date recorded	Event group	Code	Event	Details
GB884222 A	19611213	LSGT	+	granted / extensions (spc, cpc, pte)	
GB884222 A	19790819	PEXP		Calculated Patent Term Expiry	

Title: **WALL** TIE

Abstract: 1. A **wall** tie for anchoring a facing of **building** blocks to a structural element comprising an open work pad adapted to overlie a course of blocks so as to be embedded in the facing, and a flexible strap secured to said pad adapted to be bent to form a hook for slidably embracing an edge of the structural element.

Classifications:

International (IPC 8-9): E04F13/08 (Advanced/Invention);
E04F13/08 (Core/Invention)
International (IPC 1-7): E04B2/58
CPC: E04F13/0821
European: E04F13/08B2C8
US: 52/434 52/489.1 52/714



Family:

Publication number	Publication date	Application number	Application date
US2128308 A	19380830	US19370131440	19370317

Priority:

US19370131440 19370317

Probable Assignee: UNIVERSAL FORM CLAMP CO
Assignee(s): (std): UNIVERSAL FORM CLAMP CO
Inventor(s): (std): LORD CHESTER A

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2128308 A	19380830	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: THERMODYNAMIC DEVICE FOR HEATING AND/OR AIR-CONDITIONING A **BUILDING**

Abstract: The thermodynamic device of the invention is of the heat pump or air-conditioner type or the like, for heating and/or air-conditioning a **building** and/or at least a volume of this **building**, this **building** having on a facade (1) at least one window or door (2) connected to a shutter (3). One of the heat exchangers (15) of the thermodynamic device is contained in an external box structure (10) and the other components of the device, namely another heat exchanger, an expander and a compressor, are contained in an internal chamber arranged inside the **building**. The external box structure (10) is intended to be mounted on the facade (1) of the **building**, has dimensions such that it is entirely hidden by said shutter (3) in the open position, and has a visible front **wall** (12) when said shutter (3) is in the closed position, said front **wall** (12) having an appearance substantially identical to that of said shutter (3).

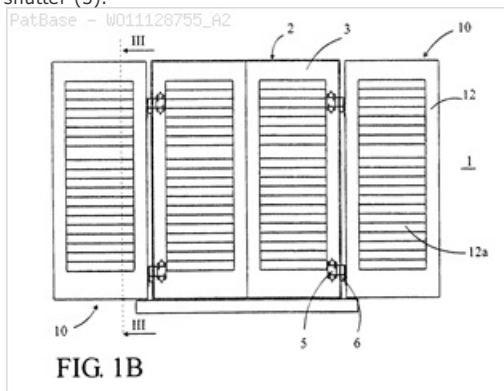
Classifications:

International (IPC 8-9): F24F1/00 F24F13/18

F24F3/00 (Advanced/Invention)

CPC: F24F1/58 F24F1/0003

European: F24F1/00B



Family:

Publication number	Publication date	Application number	Application date
EP2558792 A2	20130220	EP20110722508	20110412
FR2959002 A1	20111021	FR20100052860	20100415
FR2959002 B1	20140725	FR20100052860	20100415
WO11128755 A2	20111020	WO2011B00804	20110412
WO11128755 A3	20120112	WO2011B00804	20110412

Priority:

FR20100052860 20100415 WO2011B00804 20110412

Probable Assignee: SCHUFFENECKER THIERRY

Assignee(s): (std): SCHUFFENECKER THIERRY

Assignee(s): THIERRY SCHUFFENECKER

Inventor(s): (std): SCHUFFENECKER THIERRY

Inventor(s): THIERRY SCHUFFENECKER

Agent(s): Koelbel Caroline; CABINET NITHARDT ET ASSOCIES; CABINET LAURENT ET CHARRAS; NITHARDT ROLAND

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

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Patent	Date recorded	Event group	Code	Event	Details
EP2558792 A2	20130220	LSPB	+	published / reissued	
EP2558792 A2	20130220	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20121009
EP2558792 A2	20150318	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20150220
EP2558792 A2	20151230	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20150703
FR2959002 A1	20111021	LSPB	+	published / reissued	
FR2959002 A1	20140429	LSFE	PLFP	Fee Payment (FEE PAYMENT)	PAYMENT DATE : 20140429 YEAR OF FEE PAYMENT : 5
FR2959002 B1	20140725	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2959002 B1	20150430	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2959002 B1	20160129	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20151231

FR2959002 B1	20300415	PEXP		Calculated Patent Term Expiry	
WO11128755 A2	20111020	LSPB	+	published / reissued	
WO11128755 A3	20121009	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2011722508 COUNTRY OF REF DOCUMENT : EP
WO11128755 A3	20121015	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE

Title: APPAREILLAGE POUR CONSTRUCTION D'IMMEUBLES EN SERIE EQUIPMENT FOR CONSTRUCTION OF **BUILDINGS** IN SERIES (Machine translation)

Abstract: Source: FR1255051A [FR] (Claim 1) 1. Cet appareillage comprend une ossature a disposer a l'interieur de l'emplacement des murs d'un batiment a construire, des moyens de support portes par cette ossature et des banches a appuyer contre la face exterieure de l'ossature, la face exterieure de ces banches servant de guide aux materiaux a superposer pour construire les murs et ces banches portant les indications graphiques de repereage des materiaux a maçonner ainsi qu'éventuellement des elements destines soit a menager des logements dans la maçonnerie, soit a rester incorpores dans cette maçonnerie.

Machine translation: (Claim 1) 1. This apparatus comprises a frame has to have a location inside the **walls** of a **building** to **build**, support means for the door frame and lean against a **wall** forms the outer face of the frame, the outer face of the formwork as a guide to overlay materials has to **build** the **walls** and the **wall** forms bearing the indications graphs tracking **masonry** materials and possibly material intended to be menager of housing in the **masonry** or to remain incorporated in the **masonry**.

Classifications:

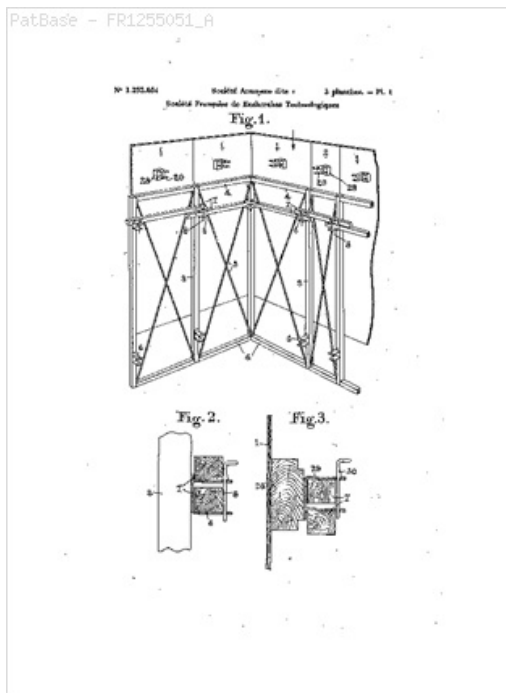
International (IPC 8-9): E04G21/18 (Advanced/Invention);

E04G21/18 (Core/Invention)

International (IPC 1-7): E04F21/04 E04G21/18

CPC: E04G21/1858 E04G21/1841 E04G21/185

European: E04G21/18C E04G21/18C2



Family:

Publication number	Publication date	Application number	Application date
FR1255051 A	19610303	FR19600816255	19600121

Priority:

FR19600816255 19600121

Probable Assignee: FR DE RECH S TECHNOLOGIQUES SO

Assignee(s): (std): FR DE RECH S TECHNOLOGIQUES SO

Assignee(s): FRANCAISE DE RECHERCHES TECHNOLOGIQUES SOC ; SOCIETE FRANCAISE DE RECHERCHES TECHNOLOGIQUES

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR1255051 A	19610303	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1255051 A	19800121	PEXP		Calculated Patent Term Expiry	

Title: ARMIERTES MAUERWERK AUS KLINKERN O. DGL., INSBESONDERE FUER TRESORE Armored **MASONRY** FROM clinkers THE LIKE., ESPECIALLY FOR TRESORE (Machine translation)

Abstract: Source: DE537416A [DE] (Claim 1) 1.PATENTANSPRUCH: Armiertes Mauerwerk aus Klinkern o. dgl., insbesondere fuer Tresore, dadurch gekennzeichnet, dass in jeder Schicht der ueber- und gegebenenfalls auch hintereinander vermauerten Klinker (a, c) die Richtung der Steine mit Bezug auf die Mauer laengsachse eine andere ist als in jeder benachbarten Schicht, wobei ausser den hochkant stehenden Eisenarmierungen (b, d) auch noch zwischen den einzelnen Hoehenschichten flach liegende Eisenarmierungen vorgesehen sein koennen.

Machine translation: (Claim 1) 1.PATENTANSPRUCH: Reinforced **masonry** bricks or the like, especially for safes, characterized in that in each layer of about-and possibly also behind the other **walled** brick (a, c) the direction of the stone **wall** with respect to the longitudinal axis than in any other can be adjacent layer, in addition to the standing upright reinforcing steel (b, d) but also between the individual layers heights lying flat iron reinforcements be provided.

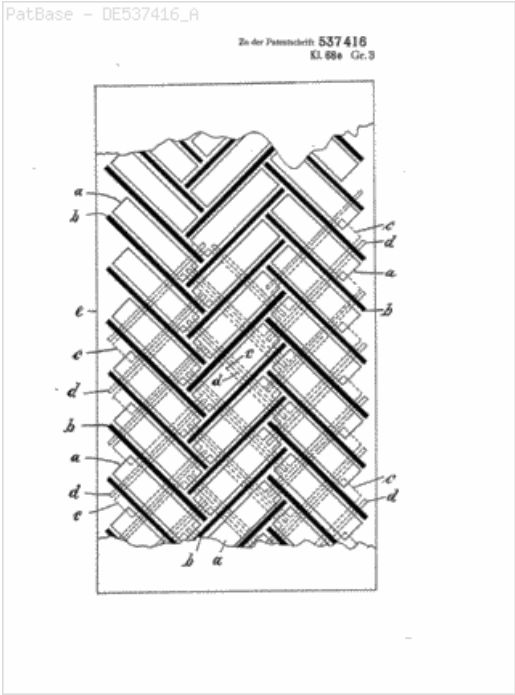
Classifications:

International (IPC 8-9): E05G1/024 (Advanced/Invention); E05G1/00 (Core/Invention)

International (IPC 1-7): E04B1/98 E04B2/10 E05G1/024

CPC: E05G1/024

European: E05G1/024



Family:

Publication number	Publication date	Application number	Application date
DE537416 A	19311102	DE1929T037809D	19291105

Priority:

DE1929T037809 19291105

Probable Assignee: HANS TAEGEN

Assignee(s): (std): HANS TAEGEN ; MINIMAX AG ; MINIMAX AKT GES

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE537416 A	19311102	LSGT	+	granted / extensions (spc, cpc, pte)	

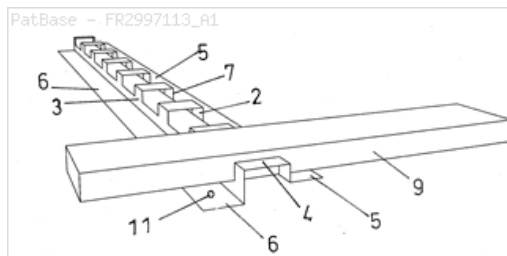
Title: DISPOSITIF POUR BARDAGE A CLAIRE-VOIE POUR TOUTES STRUCTURES PORTEUSES ET SON PROCEDE DE MONTAGE

Abstract: Source: FR2997113B [FR] Dispositif pour bardage a claire-voie pour toutes structures porteuses et son procede de montage. Le dispositif objet de l'invention comprend un profile longitudinal ayant une partie centrale (1) formant une "cremaillere" sur toute sa longueur, compose d'un volume formee avec trois cotes et possede un quatrieme cote ouvert et dont deux cotes lateraux (2,3) portent des ailes (5, 6), laquelle partie centrale (1) est ajouee de maniere transversale et a intervalles irreguliers formant des ajours (7) dans lesquels sont positionne des lames de bois (9) pour constituer le parement, en ce que les lames de bois (9) sont fixees sur l'aile (5) du profile et le profile est fixe avec l'aile (6) sur la structure porteuse.

Classifications:

International (IPC 8-9): E04F13/21 (Advanced/Invention)

CPC: E04F13/0803 E04F13/0805 E04F13/10



Family:

Publication number	Publication date	Application number	Application date
FR2997113 A1	20140425	FR20120002910	20121023
FR2997113 B1	20160122	FR20120002910	20121023

Priority:

FR20120002910 20121023

Probable Assignee: NEOCLIN

Assignee(s): (std): NEOCLIN

Inventor(s): (std): CAZALIEU FREDERIC

Inventor(s): FREDERIC CAZALIEU

Agent(s): CLAUDE CHINCHOLLE; CABINET JEANNET AND ASSOCIES; LLR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2997113 A1	20140425	LSPB	+	published / reissued	
FR2997113 A1	20151023	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
FR2997113 B1	20160122	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2997113 B1	20160929	LSLI	CL	Concession de licence (CONCESSION TO GRANT LICENCES)	REGISTERED NUMBER : 0213567 BOPI DATE : 2016-44
FR2997113 B1	20160929	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 5
FR2997113 B1	20161104	LSLI	CL	CONCESSION TO GRANT LICENCES	PARTYTYPE : LICENSEE LICENSEE : NEOCLIN ATLANTIC, FR EFFECTIVE DATE : 20160929
FR2997113 B1	20171030	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 6
FR2997113 B1	20181026	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 7
FR2997113 B1	20191030	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
FR2997113 B1	20321023	PEXP		Calculated Patent Term Expiry	

Title: ANTI-TERMITE PROTECTIVE MATERIAL

Abstract: The invention relates to an anti-termite protective material which consists of a geotextile having a dimensionally stabilized open mesh and including an insecticide suitable for combating termites.

Classifications:

International (IPC 8-9): A01M1/24 A01M29/34 E04B1/72 (Advanced/Invention)

CPC: E04B1/72 A01M29/34 A01M1/24

Family:

Publication number	Publication date	Application number	Application date
WO13079996 A1	20130606	WO2011B55420	20111201

Priority:

WO2011B55420 20111201

Probable Assignee: MARTINET PASCAL

Assignee(s): (std): MARTINET PASCAL

Inventor(s): (std): MARTINET PASCAL

Agent(s): THURGOOD ALEXANDER

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 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
WO13079996 A1	20130606	LSPB	+	published / reissued	
WO13079996 A1	20140602	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO13079996 A1	20141224	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 11810886 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: Method of making solid and hollow concrete walls, floors and other structures

Abstract: 28370. [Classes 20 (ii) and 20 (iv)] A method of making masonry structures, such as walls and floors, consists in building a shell structure of hollow moulds or hollow bricks, and introducing cement milk into the structure through one or more inlets provided at the base thereof so that the level of the liquid rises through the structure and enters the cavities between or within the moulds or bricks. The term "cement milk" is defined as a liquid binding material comprising a mixture of cement with sufficient water for the mixture to be fluid and mobile to such extent that it may be poured, pumped or siphoned. The mixture may have an addition of rock powder. In building a solid wall, hollow bricks d, which are open at the top and bottom and have apertures h in the end faces, are built up to constitute a shell as shown in sectional plan in Fig. 2; the cavities are first filled with coarse aggregate material and cement milk is then introduced at the base of the shell through a conduit l. For building a cavity wall, a structure is formed of open work iron boxes o, Fig. 3, each of which contains a trough-shaped mould a of glazed clay, concrete, plaster of Paris, tarred or varnished wood, and c., and boards are attached on each side of the structure to form a shell. Aggregate material is packed around the moulds a, and cement milk is fed into the shell at the base. A further cavity wall is formed of hollow bricks a which are shaped and arranged as shown in Figs. 4 and 5 so that when cement milk is introduced at the base of the wall it fills the spaces between the bricks and forms vertical and horizontal ribs. The spaces between the end walls of the bricks may be first filled with aggregate, and a metal reinforcement may be provided so as to form reinforced concrete ribs. The cement milk rises to some extent in the hollow moulds, and the extent of the rise may be regulated by providing apertures in the end walls of the mould through which air may escape. To form a floor, trough-shaped moulds a are supported on centering n extending between joists k as shown in Fig. 7, and aggregate is packed between and over the moulds prior to the introduction of the cement milk at the base of the structure. The moulds a may be of frusto-pyramidal shape to permit their withdrawal after hardening of the concrete. The moulds may also be open at the top and filled with fine sand or like material, which permits the water of the cement milk to penetrate, but excludes the cement, and thereby forms the concrete skeleton ribs outside the moulds. Interlocking projections and recesses may be provided on the abutting surfaces of the bricks, and the joints may also be sealed by the insertion of sealing materials in the joints or linen, pasteboard or the like applied over the external faces of the joints.

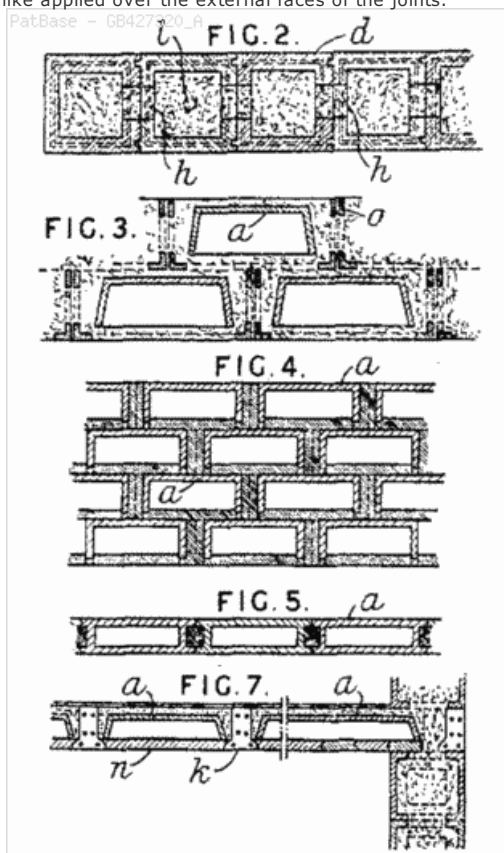
Classifications:

International (IPC 8-9): E04B2/42 (Advanced/Invention);

E04B2/42 (Core/Invention)

CPC: E04B2/42

European: E04B2/42



Family:

Publication number	Publication date	Application number	Application date
GB427320 A	19350415	GB19330028370	19331014

Priority:

GB19330028370 19331014

Probable Assignee:

ADELE SCHNEIDERS

Assignee(s): (std):

ADELE SCHNEIDERS

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB427320 A	19350415	LSGT	+	granted / extensions (spc, cpc, pte)	
GB427320 A	19531014	PEXP		Calculated Patent Term Expiry	

Title: Anti-noise **wall**, comprises an interlocking frame unit within which are placed sound absorbing blocks

Abstract: The frame is surrounded by an **openwork** cage made by welding galvanized rods or bars. A steel sheet is placed inside the cage. The cage is filled in its front part (23) by sound absorbing blocks (22) made from wood and concrete, fiber reinforced concrete or equivalent material. The rear part (24) of the cage can contain blocks (25) fulfilling a decorative function.

Classifications:

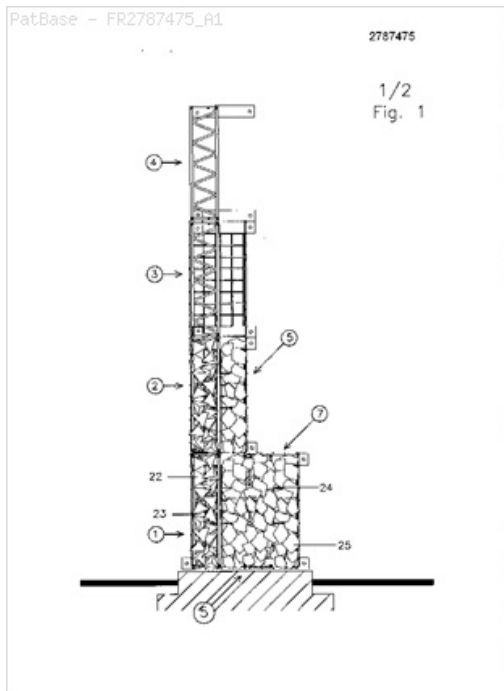
International (IPC 8-9): E01F8/02 E02D29/02 (Advanced/Invention);

E01F8/02 E02D29/02 (Core/Invention)

International (IPC 1-7): E01F8/00

CPC: E01F8/025 E02D29/0208

European: E01F8/02A8 E02D29/02B



Family:

Publication number	Publication date	Application number	Application date
FR2787475 A1	20000623	FR19980016404	19981221
FR2787475 B1	20010209	FR19980016404	19981221

Priority:

FR19980016404 19981221

Probable Assignee: GRETHER FRANCOIS

Assignee(s): (std): GRETHER FRANCOIS

Inventor(s): (std): OSTY JACQUELINE ; LAUZERAL XAVIER ; GRETHER FRANCOIS

Legal status (INPADOC)

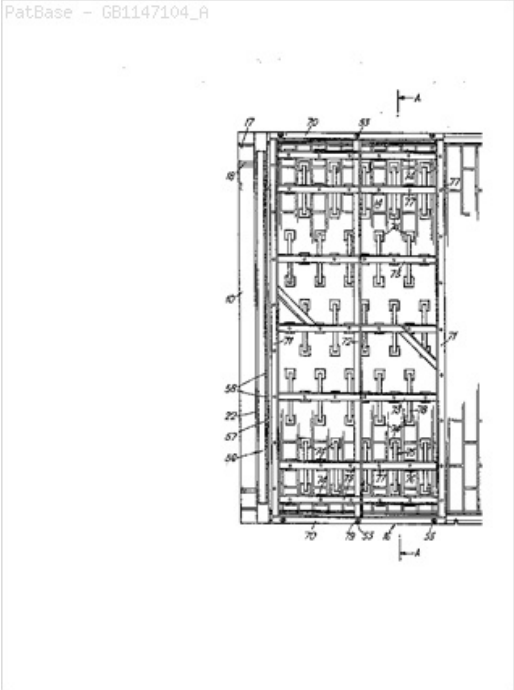
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Patent	Date recorded	Event group	Code	Event	Details
FR2787475 A1	20000623	LSPB	+	published / reissued	
FR2787475 B1	20010209	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2787475 B1	20051007	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2787475 B1	20181221	PEXP		Calculated Patent Term Expiry	

Title: Method of and apparatus for making brick panels

Abstract: 1,147,104. Brick panels. WESTBRICKS PRODUCTS Ltd. 15 Feb., 1968 [16 Feb., 1967], No. 7380/67. Heading B5A. Brick panels are manufactured by arranging the bricks on a horizontal bed being part of a mould, clamping the bricks to hold them in position, filling the spaces in between with mortar and raising the bed to a vertical or inclined position after setting and removal of clamping pressure. The mould 11, Fig. 1, may comprise the bed 12 on a table of reinforced concrete, the bed 12 being pivoted at 13 to the table and a frame assembly of channel section girders 21, 22, secured to bed 12 by swing bolts (23, Fig. 2, not shown). The bricks 14 are located by structure 15 comprising primary guide elements 60 to determine the rows of bricks and secondary guide elements 62 interfitting with the primary elements to determine the brick positions relative to the mould 11 rather than to adjacent bricks. The clamping assembly 16 comprises cross members 71, 72 and members 73 supporting damping pads 74 bearing resilient material. Bed 12 is also covered with resilient material but harder than that on the pads so that any irregularities occur in the upper surface of the panel. Reinforcing members may be inserted in the mould, which may be vibrated while being filled with mortar e.g. by units 90, 91 causing vibrations in both horizontal and vertical planes. Arms (17, Fig. 3, not shown) pivoted to the bed 12 and carrying a ratchet pin (42) engage in racks (18) to support the bed in the inclined or vertical position.

Classifications:
International (IPC 8-9): B28B19/00 E04C2/04 E04G21/22 (Advanced/Invention);
B28B19/00 E04C2/04 E04G21/22 (Core/Invention)
International (IPC 1-7): B28B11/00 E04G21/22
CPC: B28B19/0053 E04C2/041 E04G21/22
European: B28B19/00H E04C2/04B E04G21/22



Family:

Publication number	Publication date	Application number	Application date
GB1147104 A	19690402	GB19670007380	19670216

Priority:
GB19670007380 19670216

Probable Assignee: WESTBRICK PRODUCTS LTD
Assignee(s): (std): WESTBRICK PRODUCTS LTD
Assignee(s): WESTBRICK PRODUCTS LIMITED
Inventor(s): (std): STEDHAM MICHAEL EDGAR COLERIDG
Inventor(s): MICHAEL EDGAR COLERIDGE STEDHAM

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB1147104 A	19690402	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1147104 A	19870216	PEXP		Calculated Patent Term Expiry	

Title: Manure handling system for animal house

Abstract: (Claim 1) 1. The combination with a bank of cage means arranged in a linear series and supported above means providing a chamber, each cage having a foraminous floor for passage of animal droppings and said chamber having a top member formed with a plurality of openings there-through, an elongated strip of air-resistant, flexible material directly overlying said chamber top member and spanning substantially all of said openings, means for de-pressurizing air to said chamber to maintain a superatmospheric pressure therein whereby air escaping through said top member openings will support said strip substantially out of contact with said top member, and means for unidirectionally moving said strip serially below and past said cages to receive droppings thereon.

Classifications:

International (IPC 8-9): A01K31/04 (Advanced/Invention);
A01K31/00 (Core/Invention)

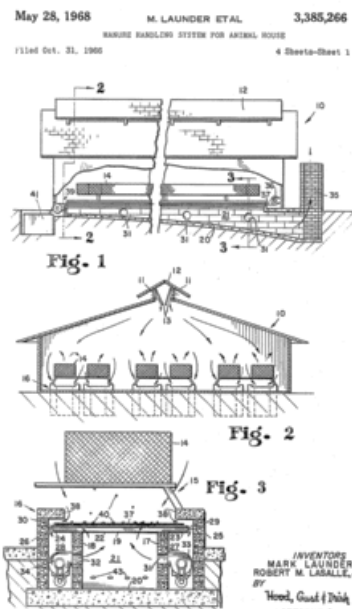
International (IPC 1-7): A01K1/00

CPC: A01K31/04

European: A01K31/04

US: 119/22 119/442

PatBase - US3385266_A



Family:

Publication number	Publication date	Application number	Application date
US3385266 A	19680528	US19660590997	19661031

Priority:

US19660590997 19661031

Probable Assignee: HORIZONS UNLTD PROBLEMS SOLVED

Assignee(s): (std): HORIZONS UNLIMITED PROBLEMS SO ; HORIZONS UNLTD PROBLEMS SOLVED

Assignee(s): HORIZONS UNLIMITED PROBLEMS SOLVED BY IDEAS CORP

Inventor(s): (std): SALLE ROBERT M LA JR ; SALLE JR ROBERT M LA ; MARK LAUNDER ; LAUNDER MARK

Inventor(s): JR ROBERT M LA SALLE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3385266 A	19680528	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: BRIQUE POUR CONSTRUCTIONS RENFORCEES PAR DES PILIERS COULES BRICK **BUILDINGS** FOR ENHANCED BY PILLARS CAST (Machine translation)

Abstract: Source: FR1223851A [FR] (Claim 1) 1. Une brique pour ouvrages de maçonnerie renforcés par des piliers coulés, caractérisée en ce qu'elle est munie dans le sens de la hauteur d'au moins un orifice suffisamment grand pour permettre la coulee de beton, la superposition de briques ainsi conformees de facon que leurs orifices se recouvrent mutuellement donnant lieu a la formation d'un conduit continu susceptible d'etre rempli de beton;

Machine translation: (Claim 1) 1. A brick for **masonry** structures reinforced by pillars cowl, characterized in that it is fitted in the direction of the height of at least one opening large enough to allow the casting of concrete, brick layering and shaped so that their apertures overlap each other giving rise to the formation of a continuous conduit capable of being filled with concrete;

Classifications:

International (IPC 8-9): E04B2/24 (Advanced/Invention);

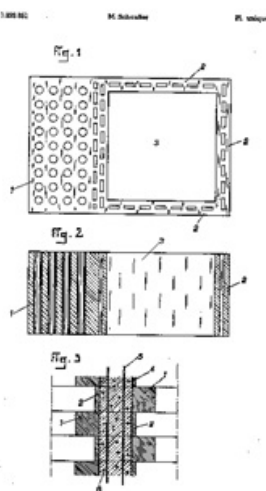
E04B2/14 (Core/Invention)

International (IPC 1-7): E04C1/04 E04C1/16

CPC: E04B2/24

European: E04B2/24

PatBase - FR1223851_A



Family:

Publication number	Publication date	Application number	Application date
BE618447 A4	19621001	BE19620618447	19620604
BE618447 R	19621001	BE19620618447	19620604
DE1819514 U	19601013	DE1959SC25463U	19590724
FR1223851 A	19600621	FR19596706673	19590509

Priority:

FR19596706673 19590509

Probable Assignee:

SCHAEFFER GEORGES

Assignee(s): (std):

SCHAEFFER GEORGES

Assignee(s):

GEORGES SCHAEFFER

Inventor(s): (std):

SCHAEFFER GEORGES

Inventor(s):

GEORGES SCHAEFFER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BE618447 A4	19621001	LSPB	+	published / reissued	
BE618447 R	19621001	LSPB	+	published / reissued	
DE1819514 U	19601013	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1223851 A	19600621	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1223851 A	19790509	PEXP		Calculated Patent Term Expiry	

Title: Improvements in the surface covering of **walls** of **buildings**

Abstract: 444,089. Surfacing **walls**; lathing. STEWART, R. D., 83, Wellshot Road, Shettleston, Glasgow. Feb. 4, 1935, No. 3509. [Class 20 (iv)] A method for the surface treatment of inside **walls** of **buildings** consists in fixing to the **wall** a sheet or plate of non-porous cement or cementitious material which is impermeable to moisture, and superposing on this sheet or plate a layer of porous lime-plaster which is keyed to the sheet or plate by ribbing or grooving the surface of the latter. The sheet or plate may consist of Portland cement and iron oxide. The Provisional Specification describes also the application of a non-porous cement layer to the **wall** in plastic form instead of as a sheet or plate.

Classifications:

International (IPC 8-9): E04B1/62 (Advanced/Invention)

International (IPC 1-7): E04F13/04

CPC: E04B1/62

European: E04B1/62

Family:

Publication number	Publication date	Application number	Application date
 GB444089 A	19360313	GB19350003509	19350204

Priority:

GB19350003509 19350204

Probable Assignee:

ROBERT DAVID STEWART

Assignee(s): (std):

ROBERT DAVID STEWART

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB444089 A	19360313	LSGT	+	granted / extensions (spc, cpc, pte)	
GB444089 A	19550204	PEXP		Calculated Patent Term Expiry	

Title: GESCHOSSTREPPE

Abstract: Source: FR1579200A [FR] [Source: Claim 1] 1.) Escalier desservant les divers etages d'un batiment constitue a partir d'un grand nombre d'unites de dimensions variees, escalier caracterise en ce qu'il est constitue d'un bati metallique sur lequel sont rapportees des pieces constitutives realisees sous la forme de parties prefabriquees, telles que des secteurs tournant a droite ou a gauche ou des unites de deux ou trois marches ou plus, ce qui permet la realisation d'escaliers de toute forme dont le prix de revient est peu onereux du fait que les elements prefabriques peuvent etre realises en grande serie. **Machine translation:** [Source: Claim 1]. 1) Staircase serving the various floors of a **building** is from a large number of units of varied dimensions, staircase characterizes in that it constitutes a metal bati which are reported constituent pieces made in the form of prefabricated parts, such as sectors turning right or left or units of two or three steps or more, allowing the realization of staircases of any form whose price of returns is somewhat costly because the prefabricated elements can be realized in large series.

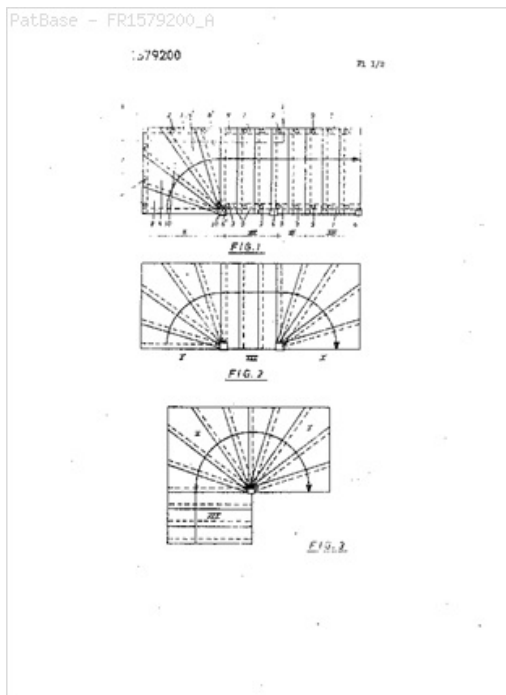
Classifications:

International (IPC 8-9): E04F11/02 (Advanced/Invention); E04F11/02 (Core/Invention)

International (IPC 1-7): E04F11/02 E04F11/12

CPC: E04F11/02

European: E04F11/02



Family:

Publication number	Publication date	Application number	Application date
BE719336 A	19690116		19680809
DE1784596 A1	19710812	DE19681784596	19680822
FR1579200 A	19690822		19680826
NL149564 B	19760517	NL19670011705	19670825
NL6711705 A	19690227	NL19670011705	19670825

Priority:

NL19670011705 19670825

Probable Assignee:

ROBOT B V

Assignee(s): (std):

ROBOT B V ; ROBOT BV ; ROBOT N V

Assignee(s):

ROBOT NV ; ROBOT B V GOIRLE

Inventor(s): (std):

MARKSLAG H J J

Inventor(s):

MARKSLAG HJJ

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BE719336 A	19690116	LSPB	+	published / reissued	
BE719336 A	19880809	PEXP		Calculated Patent Term Expiry	
DE1784596 A1	19710812	LSPB	+	published / reissued	
FR1579200 A	19690822	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1579200 A	19880826	PEXP		Calculated Patent Term Expiry	
NL149564 B	19760517	LSPB	+	published / reissued	
NL149564 B	19830516	LSLE	-V1	LAPSED BECAUSE OF NON-PAYMENT OF THE ANNUAL FEE	
NL149564 B	19870825	PEXP		Calculated Patent Term Expiry	
NL6711705 A	19690227	LSPB	+	published / reissued	

Title: Improvements in or relating to externally heated rotary drums or retorts

Abstract: [Class 51 (ii)] An externally-heated rotary drum or retort more particularly for the distillation of zinc has an outer metal supporting structure extending between its ends and in the form of an **openwork** casing or skeleton framework, which leaves exposed substantial portions of the external surface of the drum. In the construction shown in which the drum is built up of tongue-and-groove blocks 7, the metal framework consists of longitudinal bars or rails 11 secured at their ends to rings 12, which also carry the end **walls** 13 with the journals 20. Blocks 17 are welded to the rails to provide bearing surfaces for the drum, or additional rigidity may be given to the structure by cables 14 wound helically around the framework and tensioned by screw adjustments or springs. When the supporting structure consists of a cylindrical casing lined by the blocks 7, the apertures in the casing are positioned to expose as much as possible of the joints between the blocks. Alternatively, the supporting structure may consist of intercrossing elements forming a lattice-work, the elements preferably being recessed at the points of intersection. When the drum consists of a one-piece tube, the supporting structure comprises end plates tied together by tension bars, the two ends of which are offset angularly.

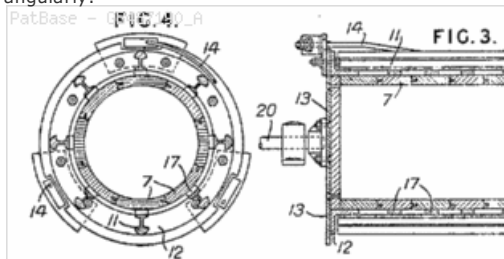
Classifications:

International (IPC 8-9): F27B7/08 (Advanced/Invention);

F27B7/00 (Core/Invention)

CPC: F27B7/08

European: F27B7/08



Family:

Publication number	Publication date	Application number	Application date
GB487190 A	19380616	GB19370023070	19370823

Probable Assignee: METALLGESELLSCHAFT AG

Assignee(s): (std): METALLGESELLSCHAFT AG

Assignee(s): METALLGESELLSCHAFT AKTIENGESELLSCHAFT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB487190 A	19380616	LSGT	+	granted / extensions (spc, cpc, pte)	
GB487190 A	19570823	PEXP		Calculated Patent Term Expiry	

Title: ANTI-TERMITE PROTECTION MATERIAL USEFUL IN CONSTRUCTION ELEMENTS E.G. FLOOR TILES TO PROTECT AGAINST INFESTATION BY SUBTERRANEAN TERMITE, COMPRISES TEXTILE FRAME, WHERE MATERIAL IS MADE OF TEXTILE OF DIMENSIONALLY STABILIZED MESH

Abstract: The anti-termite protection material comprises a textile frame. The material is made of a textile of dimensionally stabilized mesh with an insecticide, and nonwoven, woven or knitted fabric. The mesh made of yarn is coated with resin or polyolefin additive.

Classifications:

International (IPC 8-9): A01M1/24 A01N25/34 A01P7/04 D06M16/00 E04B1/72 (Advanced/Invention)

CPC: A01M1/24 A01M29/34 D01F1/10 D01F1/103 D01F6/04 D06M16/00 E04B1/72

European: A01M1/24 A01M29/34 D01F1/10 D01F1/10B D01F6/04 D06M16/00 E04B1/72

Family:

Publication number	Publication date	Application number	Application date
 FR2960566 A1	20111202	FR20100002191	20100525

Priority:

FR20100002191 20100525

Probable Assignee: MARTINET PASCAL
Assignee(s): (std): MARTINET PASCAL
Assignee(s): PASCAL MARTINET
Inventor(s): (std): MARTINET PASCAL
Inventor(s): PASCAL MARTINET
Agent(s): ALEXANDER THURGOOD IP GALORE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2960566 A1	20111202	LSPB	+	published / reissued	
FR2960566 A1	20120113	LSAS	TP	TRANSMISSION OF PROPERTY	PARTYTYPE : OWNER OWNER : RAF INDUSTRIES, FR EFFECTIVE DATE : 20111214
FR2960566 A1	20140530	LSFE	PLFP	Fee Payment (FEE PAYMENT)	PAYMENT DATE : 20140530 YEAR OF FEE PAYMENT : 5
FR2960566 A1	20140716	LSRV	PLAR	APPLICATION REFUSED	

Title: CELLULAR STRUCTURES FOR SUSTAINING WALLS

Abstract: PCT No. PCT/CA90/00262 Sec. 371 Date Apr. 21, 1992 Sec. 102(e) Date Apr. 21, 1992 PCT Filed Aug. 17, 1990 PCT Pub. No. WO91/02851 PCT Pub. Date Mar. 7, 1991. A cellular structure for sustaining an embankment is comprised of a vertical facing structure including generally a lattice (1) connected to an embedding structure (2, 3). The embedding structure (2, 3) is extended from the facing structure (1) into the embankment. In a first embodiment, the embedding structure is configured like two lattice sections (2) vertically mounted at the vertical edges of the facing structure (1) and prolonged generally in parallel to the embankment. The embedding structure may also be comprised of at least one U-shaped stirrup (3) connected at each of its free ends to a respective vertical edge of the facing structure (1). In this case, the stirrup (3) is generally extended horizontally in the embankment. The masonry of the facing structure (1) may be carried out in different ways in order to achieve various finishings. The cellular structure may also include a sunk framework (5) between the embankment and the facing structure (1). The cellular structure may thus be filled with stones of smaller or larger dimensions as well as with earth. The use of a geotextile allows the vegetation to grow through the facing structure (1).

Classifications:

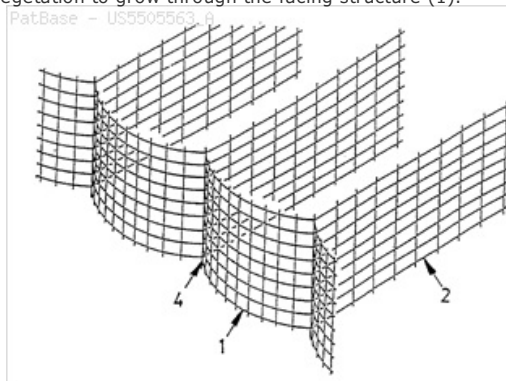
International (IPC 8-9): E02D29/02 E02D5/20 (Advanced/Invention);
E02D29/02 E02D5/00 (Core/Invention)

International (IPC 1-7): E02D29/02 E02D5/20

CPC: E02D5/20 E02D29/0216 E02D29/0241

European: E02D29/02C E02D29/02D2 E02D5/20

US: 405/262 405/284

**Family:**

Publication number	Publication date	Application number	Application date
AT163706 E	19980315	AT19900912402T	19900817
AU199061667 A1	19910403	AU19900061667	19900817
AU199479001 A1	19950202	AU19940079001	19941123
AU656120 B2	19950127	AU19900061667	19900817
AU682407 B2	19971002	AU19940079001	19941123
CA1319261 A1	19930622	CA19890608914	19890821
DE69032103 D1	19980409	DE19906032103T	19900817
DE69032103 D1	19980409	DE19906032103	19900817
DE69032103 T2	19981029	DE19906032103T	19900817
EP0489054 A1	19920610	EP19900912402	19900817
EP0489054 B1	19980304	EP19900912402	19900817
RO113171 B1	19980430	RO19900920988	19900817
US5505563 A	19960409	US19920847994	19920421
WO9102851 A2	19910307	WO1990CA00262	19900817
WO9102851 A3	19910502	WO1990CA00262	19900817

Priority:

CA19890608914 19890821 AU19900061667 19900817 WO1990CA00262 19900817

Probable Assignee: CURT VALERIAN CANDIAC

Assignee(s): (std): CURT VALERIAN ; CURT VALERIAN CANDIAC ; VALERIAN CURT

Assignee(s): CURT VALERIAN CANDIAC QUEBEC CA

Inventor(s): (std): CURT VALERIAN ; VALERIAN CURT

Inventor(s): CURT VALERIAN CANDIAC QUEBEC CA

Agent(s): GRIFFITH HACK; OGILVY RENAULT LLP SENCRL SRL

Designated states: AT AU BB BE BF BG BJ BR CF CG CH CM DE DK ES FI FR GA GB HU IT JP KP KR LI LK LU MC MG ML MR MW NL NO RO SD SE SN SU TD TG US

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT163706 E	19980315	LSGT	+	granted / extensions (spc, cpc, pte)	
AT163706 E	19980915	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT163706 E	20100817	PEXP		Calculated Patent Term Expiry	
AU199061667 A1	19910403	LSPB	+	published / reissued	
AU199479001 A1	19950202	LSPB	+	published / reissued	
AU656120 B2	19950127	LSGT	+	granted / extensions (spc, cpc, pte)	

AU656120 B2	20000323	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU656120 B2	20100817	PEXP		Calculated Patent Term Expiry	
AU682407 B2	19971002	LSGT	+	granted / extensions (spc, cpc, pte)	
AU682407 B2	20000323	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU682407 B2	20141123	PEXP		Calculated Patent Term Expiry	
CA1319261 A1	19930622	LSGT	+	granted / extensions (spc, cpc, pte)	
CA1319261 A1	20100622	LSLE	-MKEX	EXPIRY	
CA1319261 A1	20100622	PEXP		Calculated Patent Term Expiry	
DE69032103 D1	19990401	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69032103 D1	19990401	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69032103 D1	20010906	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69032103 D1	20010906	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69032103 T2	19981029	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69032103 T2	19990401	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69032103 T2	20010906	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69032103 T2	20100817	PEXP		Calculated Patent Term Expiry	
EP0489054 A1	19920610	LSPB	+	published / reissued	
EP0489054 A1	19920610	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19920319
EP0489054 A1	19930915	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19930730
EP0489054 B1	19980304	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0489054 B1	19980304	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : THE PATENT HAS BEEN ANNULLED BY A DECISION OF A NATIONAL AUTHORITY LAPSED DATE : 19980304
EP0489054 B1	19980304	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 19980304
EP0489054 B1	19980304	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 : 19980304
EP0489054 B1	19980304	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 : 19980304
EP0489054 B1	19980313	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP

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EP0489054 B1	19980803	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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EP0489054 B1	20040831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE

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EP0489054 B1	20050415	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
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EP0489054 B1	20100817	PEXP		Calculated Patent Term Expiry	
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US5505563 A	19960409	LSGT	+	granted / extensions (spc, cpc, pte)	
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US5505563 A	19960328	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5505563 A	19991004	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5505563 A	20030827	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5505563 A	20070717	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5505563 A	20130409	PEXP		Calculated Patent Term Expiry	
WO9102851 A2	19910307	LSPB	+	published / reissued	
WO9102851 A3	19920319	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1990912402 COUNTRY OF REF DOCUMENT : EP
WO9102851 A3	19920521	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9102851 A3	19920610	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1990912402 COUNTRY OF REF DOCUMENT : EP
WO9102851 A3	19920721	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 92- 0988 COUNTRY OF REF DOCUMENT : RO
WO9102851 A3	19980304	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1990912402 COUNTRY OF REF DOCUMENT : EP

Title: CONJUNTO DE LADRILLO PARA LA CONSTRUCCION Y PIEZA DE UNION MECANICA INMEDIATA.

Abstract: The brick assembly comprises hollow bricks and brick base is given an insertion pressure to produce a mechanical bonding between bricks. The brick are placed in lines for construction of **masonry** and panel.

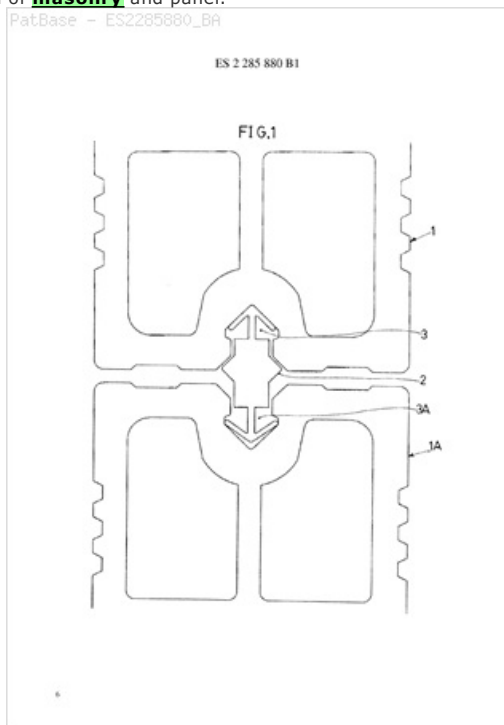
Classifications:

International (IPC 8-9): E04B1/61 E04B2/18 (Advanced/Invention);

E04B1/61 E04B2/14 (Core/Invention)

CPC: E04B1/615 E04B2/18

European: E04B1/61D3C1 E04B2/18



Family:

Publication number	Publication date	Application number	Application date
ES2285880 AA	20071116	ES20040002299	20040928
ES2285880 BA	20080616	ES20040002299	20040928

Priority:

ES20040002299 20040928

Probable Assignee:

CERAMICA ACUSTICA S L

Assignee(s): (std):

CERAMICA ACUSTICA S L

Assignee(s):

CERAMICA ACUSTICA SL

Inventor(s): (std):

RIESCO PRIETO FERNANDO

Inventor(s):

FERNANDO RIESCO PRIETO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES2285880 AA	20071116	LSPB	+	published / reissued	
ES2285880 AA	20071116	LSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 20071116 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
ES2285880 BA	20080616	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2285880 BA	20080616	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2285880B1 COUNTRY OF REF DOCUMENT : ES
ES2285880 BA	20180809	LSLE	-FD2A	ANNOUNCEMENT OF LAPSE IN SPAIN	EFFECTIVE DATE : 20180809
ES2285880 BA	20240928	PEXP		Calculated Patent Term Expiry	

Abstract: Source: FR2259199A [FR] (Claim 1) R E V E N D I C A T I O N S REVENDECATIONS 1.- Pierre de construction en forme de pyramide tronquee ou de cone tronque et munie d'un canal de remplissage oriente verticalement dans l'axe de la pierre pour le beton arme, caracterisee en ce que dans un plan axial de la pierre de construction, a savoir dans un angle ou une ligne du manteau, est prevue au moins -une rainure longitudinale dont la section transversale correspond a la section transversale de la partie qui engage cette rainure d'une pierre de construction de forme identique et a joindre lateralement en etant renversee de 180au alors que la face d'application superieure et la face d'application inferieure de la pierre sont chacune munie d'une gouttiere transversale qui croise le canal de remplissage et qui debouche dans la rainure longitudinale.

Machine translation: (Claim 1) CLAIMS CLAIMS 1.- Pierre built in the shape of a truncated pyramid or truncated cone and provided with a filling channel oriented vertically in the axis of the stone for the reinforced concrete, characterized in that in a axial plane of the stone **building**, ie in a corner or a line of the mantle, is scheduled at least one longitudinal groove, whose cross section corresponds to the cross section of the party who engages the groove of a stone **building** identical form and join laterally 180au being reversed in the face while implementing superior and inferior application face of the stone are each provided with a gutter section which crosses the canal filling and which opens into the longitudinal groove.

Classifications:

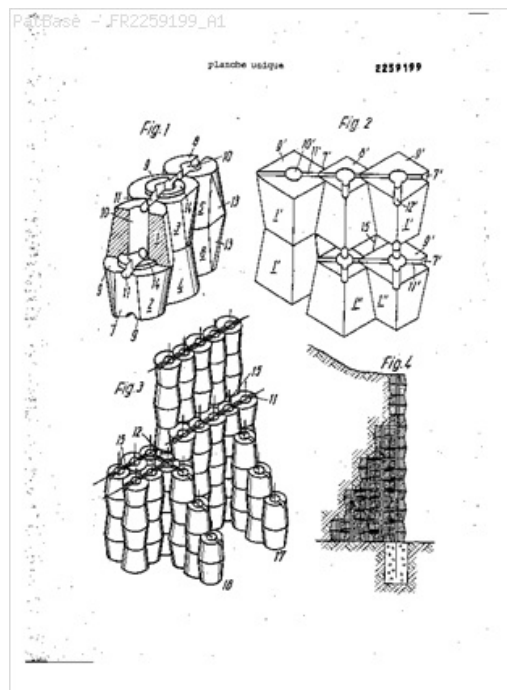
International (IPC 8-9): E02D29/02 E04B2/22 E04B2/50 E04C1/39 (Advanced/Invention);

E02D29/02 E04B2/14 E04B2/42 E04C1/00 (Core/Invention)

International (IPC 1-7): E04C1/04

CPC: E02D29/025 E04B2/22 E04B2/50 E04C1/395

European: E02D29/02E E04B2/22 E04B2/50 E04C1/39B



Family:

Publication number	Publication date	Application number	Application date
FR2259199 A1	19750822	FR19740002463	19740125
FR2259199 B3	19761119	FR19740002463	19740125

Priority:

FR19740002463 19740125

Probable Assignee:

GRIMM WILHELM

Assignee(s): (std):

GRIMM WILHELM

Assignee(s):

GRIMM WILHELM DT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2259199 A1	19750822	LSPB	+	published / reissued	
FR2259199 B3	19761119	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2259199 B3	19790316	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2259199 B3	19800125	PEXP		Calculated Patent Term Expiry	

Title: DEVICE AND METHOD TO PROVIDE AIR CIRCULATION SPACE PROXIMATE TO INSULATION MATERIAL

Abstract: A spacer device is provided including (1) a body having a plurality of openings defining an **openwork**, to allow the passage of air therethrough when placed in contact with insulation material, and (2) a plurality of spacer struts fixedly attached to the body. The struts are configured to maintain a predetermined distance between a first side of the insulation material and a **building** surface. The body and struts act together to define and maintain a space between the first side of the insulation material and the **building** surface, for example, for ventilation. The **building** surface can be the bottom face of a roof, an attic floor, **wall** sheathing or a soundproofed demising **wall**, for example. The spacer device can be capable of being transported and stored together with, or as a separate item from, the insulation material, and can also be stored in nested layers. The device can also be stored in rolled form. The **openwork** of the device can additionally or alternatively include a sheet of entangled net filaments.

Classifications:

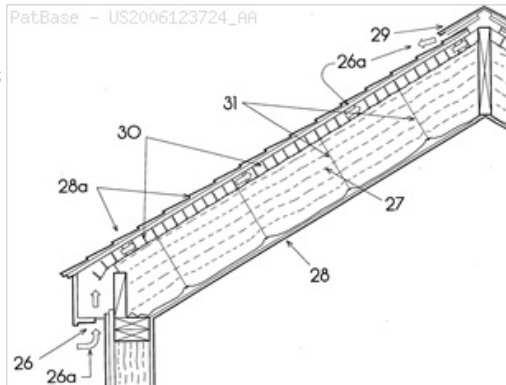
International (IPC 8-9): A47B96/06 A47F5/00 A47F5/08 B22C9/00 B22D25/02 B23P17/00 B28B7/34 B29C33/38 B29C33/40 B29C39/02 B29C71/00 B29C71/04 C25B9/00 D04H1/4266 D04H1/435 D04H1/55 D04H1/558 D04H11/00 E01C19/22 E01C5/00 E02D19/00 E04B1/66 E04B1/70 E04B1/74 E04B1/76 E04B2/00 E04B2/56 E04B2/74 E04B7/00 E04B9/00 E04B9/02 E04B9/06 E04B9/22 E04C2/20 E04D12/00 E04D13/16 E04D13/17 E04F13/14 E04F17/00 E04F17/02 E04F17/04 E04H7/22 E06C7/14 F04B15/06 F04B17/03 F04B19/00 F04B35/04 F04C13/00 F16M11/00 F24F13/02 (Advanced/Invention); E04B1/76 E04B1/88 E04B2/74 (Advanced/Non-invention); A47B96/06 A47F5/00 A47F5/08 B23P17/00 E01C19/22 E02D19/00 E04B1/66 E04B1/70 E04B1/74 E04B7/00 E04B9/00 E04B9/02 E04B9/06 E04B9/22 E04F17/00 E04H7/00 F04B15/00 F04B19/00 F04C13/00 F16M11/00 (Core/Invention)

CPC: A47K1/09 A47K3/003 A47K5/04 A47K10/04 A47K10/38

A47K17/022 A47K2201/00 A47K2201/02 E04F13/142 B29C33/424 B22C9/00 B29C33/3842 B29C33/405 B29C39/006 B29L2031/756 B81C99/0085 B81C99/009 B82Y10/00 B82Y40/00 G03F7/0002 G03F7/0017 E04F13/14 D04H11/00 F24F2005/0082 E01C5/06 E01C2201/12 E01C5/00 D04H1/4266 D04H1/4274 D04H1/435 D04H1/54 D04H1/55 D04H1/558 E04B1/7069 E04B1/88 Y10T428/23929 F04B17/044 F04C2/063 F04C15/0069 F24F13/02 E01C9/001 B28B3/20 B28B11/003 Y10T29/4998 E04F13/007 F24F5/0075 Y02A30/26 Y02B30/92 E04B1/7076 E04B1/74 E04B1/7662 E04B2/7409 E04B2/7457 E04B2002/7488 E04D12/002 E04B1/7612 E04B2/00 E04B7/00 E04D13/1625 E04D13/17 E04D13/172 E04F17/00 E04F17/02 E04F17/04 E04D13/176 E04D13/178

European: A47K1/09 A47K10/04 A47K10/38 A47K17/02B A47K3/00B2 A47K5/04 B22C9/00 B28B11/00E B29C33/38M B29C33/40B B29C33/42C B29C39/00B2 B81C99/00R4 B81C99/00R6 B82Y10/00 B82Y40/00 E01C9/00B E04B1/74 E04B1/76C1 E04B1/76E2B E04B2/74C2 E04B2/74C5C E04D12/00B E04D13/16A1C E04D13/17 E04D13/17A E04F13/00B E04F13/14D E04F17/00 E04F17/02 E04F17/04 F04B17/04B2 F04C15/00E2D F04C2/063 F24F5/00K G03F7/00A G03F7/00E K47K201/00 K47K201/02 L28B3/20 L29L31/756 P04B2/74C2 P04B2/74R Y02B30/92

US: 1/1 164/15 164/15S 164/6 164/6S 204/275.1 204/275.100S 211/105.1 211/88.04 248/201 248/205.1 248/205.3 248/210 248/210P 248/251 248/309.1 264/101 264/101S 264/219 264/219S 264/405 264/405S 264/483 264/483P 29/527.1 310/15 310/80 404/118 404/34 404/41 404/73 417/374 417/410.1 417/410.100P 417/420 428/88 52/169.4 52/198 52/198S 52/22 52/22P 52/302.1 52/302.100 52/302.100P 52/302.2 52/302.3 52/302.300S 52/302.6 52/309.1 52/309.100S 52/404.3 52/404.300P 52/588.1 52/741.4 52/741.400P 52/742.1 52/745.06 52/745.060S 52/745.09 52/745.090S 52/95



Family:

Publication number	Publication date	Application number	Application date
US2006123724 AA	20060615	US20050203354	20050812
US2006180722 AA	20060817	US20060348181	20060206
US2008245010 AA	20081009	US20080139442	20080613
US2009166487 AA	20090702	US20090399768	20090306
US2010098489 AA	20100422	US20090582748	20091021
US2010101153 AA	20100429	US20090649946	20091230
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US2010260624 AA	20101014	US20100819557	20100621
US2011209426 AA	20110901	US20110101334	20110505
US2012126458 AA	20120524	US20090322437	20090702
US2013091793 AA	20130418	US20120633866	20121002
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Priority:

US20040634823P 20041209
US20060348181 20060206

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US20170673651	20170810	US20190521246	20190724		

Probable Assignee: HETTRICH HANSL LLC

Assignee(s): (std): CANNON ANDREW H ; KING WILLIAM P ; POLLACK ROBERT ; POLLACK ROBERT W ; POLLACK ROBERT WILLIAM ; UNIV ILLINOIS ; HETTRICH HANSL LLC

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Inventor(s): (std): CANNON ANDREW H ; KING WILLIAM P ; POLLACK ROBERT ; POLLACK ROBERT W ; POLLACK ROBERT WILLIAM

Agent(s): MILDE AND HOFFBERG LLP; EDWARDS ANGELL PALMER AND DODGE LLP; BRIAN R; DAY PITNEY LLP; BROOKS WILLIAM L ET AL; POLLACK BRIAN R; GIANOLA ADAM J 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 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 YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2006123724 AA	20060615	LSPB	+	published / reissued	
US2006123724 AA	20081112	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2006180722 AA	20060817	LSPB	+	published / reissued	
US2008245010 AA	20081009	LSPB	+	published / reissued	
US2009166487 AA	20090702	LSPB	+	published / reissued	
US2009166487 AA	20111213	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2009166487 AA	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
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US2010098489 AA	20120115	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010098489 AA	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED;

					REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
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US2010101153 AA	20100429	LSPB	+	published / reissued	
US2010101153 AA	20100818	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2010229498 AA	20100916	LSPB	+	published / reissued	
US2010229498 AA	20120725	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010229498 AA	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US2010229498 AA	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US2010260624 AA	20101014	LSPB	+	published / reissued	
US2010260624 AA	20110817	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2011209426 AA	20110901	LSPB	+	published / reissued	
US2011209426 AA	20121126	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2011209426 AA	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US2011209426 AA	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US2012126458 AA	20120524	LSPB	+	published / reissued	
US2012126458 AA	20090820	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOI OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KING, WILLIAM P.; CANNON, ANDREW H.; SIGNING DATES FROM 20090728 TO 20090730; REEL/FRAME:023125/0248
US2012126458 AA	20120208	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOI OLDPARTY : ASSIGNMENT OF

					ASSIGNORS INTEREST; ASSIGNORS:KING, WILLIAM P.; CANNON, ANDREW H.; SIGNING DATES FROM 20111220 TO 20120130; REEL/FRAME:027669/0901
US2012126458 AA	20160527	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2013091793 AA	20130418	LSPB	+	published / reissued	
US2013091793 AA	20140109	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2013091793 AA	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US2013091793 AA	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US2013279979 AA	20131024	LSPB	+	published / reissued	
US2013279979 AA	20140219	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2014013688 AA	20140116	LSPB	+	published / reissued	
US2014311070 AA	20141023	LSPB	+	published / reissued	
US2014311070 AA	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US2014311070 AA	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US2014311070 AA	20150622	LSWD	-ABD2	Abandoned -- Failure to Pay Issue Fee	
US2016024799 AA	20160128	LSPB	+	published / reissued	
US2016024799 AA	20160603	LSWD	-ABD2	Abandoned -- Failure to Pay Issue Fee	
US2016376785 AA	20161229	LSPB	+	published / reissued	
US2016376785 AA	20161115	LSSES	NFA1	Non Final Action Mailed	
US2016376785 AA	20170501	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA, NEW YORK OLDPARTY : LETTERS OF TESTAMENTARY; ASSIGNOR:POLLACK, DONNA; REEL/FRAME:042198/0105 EFFECTIVE DATE : 20080110
US2016376785 AA	20170829	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA

					OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA; REEL/FRAME:043441/0083 EFFECTIVE DATE : 20150505
US2016376785 AA	20171220	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2018044912 AA	20180215	LSPB	+	published / reissued	
US2018044912 AA	20170829	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA; REEL/FRAME:043441/0083 EFFECTIVE DATE : 20150505
US2018044912 AA	20170829	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA, NEW YORK OLDPARTY : LETTERS OF TESTAMENTARY; ASSIGNOR:POLLACK, DONNA; REEL/FRAME:043716/0490 EFFECTIVE DATE : 20080110
US2018044912 AA	20180511	LSES	NFA1	Non Final Action Mailed	
US2018044912 AA	20181127	LSES	NFA1	Non Final Action Mailed	
US2018044912 AA	20191122	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2019376279 AA	20191212	LSPB	+	published / reissued	
US2019376279 AA	20200305	LSES	NFA1	Non Final Action Mailed	
US7458189 BB	20081202	LSGT	+	granted / extensions (spc, cpc, pte)	
US7458189 BB	20081112	LSGT	PAT1	Patented Case	
US7458189 BB	20120529	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7458189 BB	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US7458189 BB	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US7458189 BB	20160602	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7458189 BB	20200522	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7458189 BB	20261229	PEXP		Calculated Patent Term Expiry (PTA 504 days)	
US7503534 BB	20090317	LSGT	+	granted / extensions (spc, cpc, pte)	
US7503534 BB	20090225	LSGT	PAT1	Patented Case	
US7503534 BB	20120910	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7503534 BB	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W.

					POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US7503534 BB	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US7503534 BB	20170317	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7503534 BB	20170417	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7503534 BB	20170417	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7503534 BB	20170509	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20170317
US7503534 BB	20260610	PEXP		Calculated Patent Term Expiry (PTA 124 days)	
US7654051 BB	20100202	LSGT	+	granted / extensions (spc, cpc, pte)	
US7654051 BB	20100113	LSGT	PAT1	Patented Case	
US7654051 BB	20130801	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7654051 BB	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US7654051 BB	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US7654051 BB	20170918	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7654051 BB	20180305	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7654051 BB	20180314	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7654051 BB	20180314	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7654051 BB	20180327	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20180202
US7654051 BB	20280704	PEXP		Calculated Patent Term Expiry (PTA 21 days)	
US7788868 BB	20100907	LSGT	+	granted / extensions (spc, cpc, pte)	
US7788868 BB	20100818	LSGT	PAT1	Patented Case	
US7788868 BB	20140307	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

US7788868 BB	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US7788868 BB	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US7788868 BB	20180423	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7788868 BB	20180907	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : 7.5 YR SURCHARGE - LATE PMT W/IN 6 MO, SMALL ENTITY (ORIGINAL EVENT CODE: M2555); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US7788868 BB	20180907	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7788868 BB	20291230	PEXP		Calculated Patent Term Expiry	
US8011903 BB	20110906	LSGT	+	granted / extensions (spc, cpc, pte)	
US8011903 BB	20110817	LSGT	PAT1	Patented Case	
US8011903 BB	20150306	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8011903 BB	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US8011903 BB	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US8011903 BB	20190429	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US8011903 BB	20191014	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
US8011903 BB	20191014	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8011903 BB	20191014	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US8011903 BB	20191105	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190906
US8011903 BB	20300621	PEXP		Calculated Patent Term Expiry	
US8667752 BB	20140311	LSGT	+	granted / extensions (spc, cpc, pte)	

US8667752 BB	20140219	LSGT	PAT1	Patented Case	
US8667752 BB	20140603	LSRE	CC	CERTIFICATE OF CORRECTION	
US8667752 BB	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US8667752 BB	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US8667752 BB	20171023	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US8667752 BB	20180312	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : SURCHARGE FOR LATE PAYMENT, SMALL ENTITY (ORIGINAL EVENT CODE: M2554)
US8667752 BB	20180312	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8667752 BB	20330315	PEXP		Calculated Patent Term Expiry	
US8763330 BB	20140701	LSGT	+	granted / extensions (spc, cpc, pte)	
US8763330 BB	20140611	LSGT	PAT1	Patented Case	
US8763330 BB	20150421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POLLACK, DONNA M., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LEGAL REPRESENTATIVE, DONNA M. POLLACK OF ROBERT W. POLLACK, DECEASED; REEL/FRAME:035555/0394 EFFECTIVE DATE : 20080110
US8763330 BB	20150506	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HETTRICH HANSL LLC, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:POLLACK, DONNA M.; REEL/FRAME:035596/0942 EFFECTIVE DATE : 20150505
US8763330 BB	20180212	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US8763330 BB	20180730	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US8763330 BB	20180730	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8763330 BB	20180730	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US8763330 BB	20330910	PEXP		Calculated Patent Term Expiry	
WO07021298 A2	20070222	LSPB	+	published / reissued	
WO07021298 A3	20080213	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO07021298 A3	20080910	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN	REF DOCUMENT NUMBER : 05853478 COUNTRY OF REF DOCUMENT :

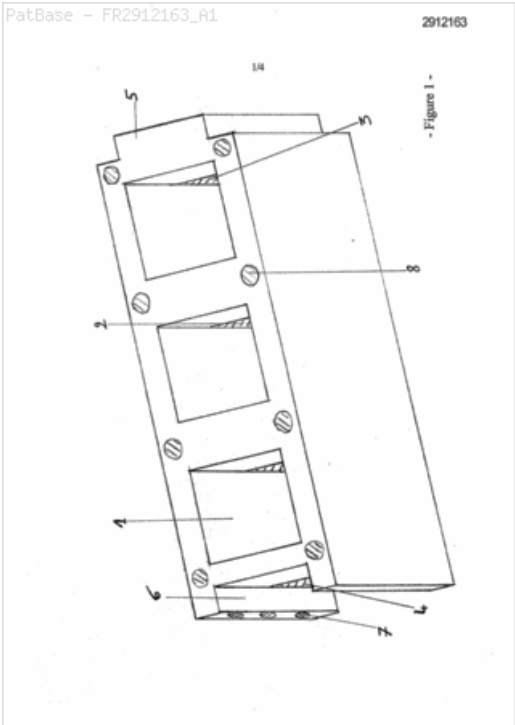
				EUROPEAN PHASE	EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :
WO07092396 A2	20070816	LSPB	+	published / reissued	
WO07092396 A2	20080807	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO07092396 A2	20090610	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 07763190 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :
WO09120670 A1	20091001	LSPB	+	published / reissued	
WO09120670 A1	20100928	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO09120670 A1	20101022	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 7470/DELNP/2010 COUNTRY OF REF DOCUMENT : IN
WO09120670 A1	20110518	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 09725020 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
WO09152491 A2	20091217	LSPB	+	published / reissued	
WO09152491 A3	20101214	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO09152491 A3	20110831	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 09763779 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :
WO10138132 A1	20101202	LSPB	+	published / reissued	
WO10138132 A1	20111128	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO10138132 A1	20120208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13322437 COUNTRY OF REF DOCUMENT : US
WO10138132 A1	20120620	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 09845350 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: CONSTRUCTION BLOCK FOR E.G. **WALL**, HAS VERTICAL CAVITIES AND HORIZONTAL CAVITIES PERMITTING BINDER MATERIAL TO CROSS AND TO CONNECT BLOCK, WHERE BLOCK IS FABRICATED WITH NATURAL OR SYNTHETIC RUBBER

Abstract: The block has three vertical cavities (1) and a horizontal cavity (2-4) permitting a binder material to cross and to connect following block in upstream and downstream of the block, and steel wire. A stud (5) is fitted in a groove (6) of the block to permit perfect alignment of cavities and gallery (7) to facilitate a passage of sheath, cable or pipe, where the block is fabricated with natural or synthetic rubber of recyclable material. An independent claim is also included for a method for assembling construction block.

Classifications:

International (IPC 8-9): E04B1/12 E04B1/14 E04B2/26
E04C1/00 (Advanced/Invention);
E04B1/02 E04B2/14 E04C1/00 (Core/Invention)
CPC: E04B2/16 E04B2002/0206 E04C1/397
European: E04B2/16 E04C1/39C P04B2/02M1A



Family:

Publication number	Publication date	Application number	Application date
FR2912163 A1	20080808	FR20070000731	20070202

Priority:

FR20070000731 20070202

Probable Assignee: VELARDO LAURENT ANTOINE
Assignee(s): (std): VELARDO LAURENT ANTOINE
Assignee(s): LAURENT ANTOINE VELARDO
Inventor(s): (std): VELARDO LAURENT ANTOINE
Inventor(s): LAURENT ANTOINE VELARDO
Agent(s): LAURENT VELARDO

Legal status (INPADOC)

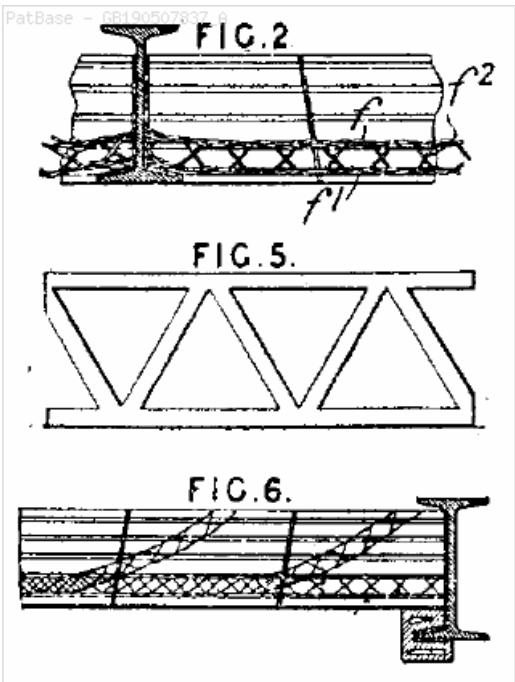
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Patent	Date recorded	Event group	Code	Event	Details
FR2912163 A1	20080808	LSPB	+	published / reissued	

Title: Improvements in Reinforced Terra Cotta Arches.

Abstract: 7837. Bevier, P. H. April 12. Arches; floors.- Flat-arched structures formed of terra-cotta blocks are e strengthened by foraminous or or open-work metallic reinforcements placed between the blocks near the lower edge and transversely to the supports. In the form shown in Fig. 2, the reinforcement consists of cables f, f, approximately parallel and connected by transverse strands f. In another form, shown in Fig. 5, the reinforcement is stamped from a single sheet of metal. The ends of several reinforcements placed side by side may be bent up, as shown in Fig. 6, to increase the resistance to shearing.

Classifications:



Family:

Publication number	Publication date	Application number	Application date
GB190507837 A	19050914		00000000

Priority:
19050412

Probable Assignee:	BEVIER PHILIP HASBROUCK
Assignee(s): (std):	BEVIER PHILIP HASBROUCK
Assignee(s):	PHILIP HASBROUCK BEVIER
Inventor(s): (std):	BEVIER PHILIP HASBROUCK
Inventor(s):	PHILIP HASBROUCK BEVIER

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
GB190507837 A	19050914	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: SPACER FOR PROVIDING DRAINAGE PASSAGEWAYS WITHIN **BUILDING** STRUCTURES

Abstract: A roll-form spacer product providing air space and drainage passageways within a **building** structure. Preferably, the spacer product is a corrugated web of material having undulating front and rear faces and serpentine-shaped longitudinally extending edges. The faces include alternating arrays of grooves and ridges which extend perpendicular to the side edges and parallel to an axis of a spiral roll of the spacer. Thus, when the spacer is unrolled and applied to a **building** structure in a plurality of horizontally extending rows, the ridges and grooves are substantially vertically-disposed to form a plurality of unobstructed passageways for the drainage of moisture. Preferably, the web is made of an **openwork** mat of randomly convoluted polymeric filaments, and thus, enables ready circulation of air.

Classifications:

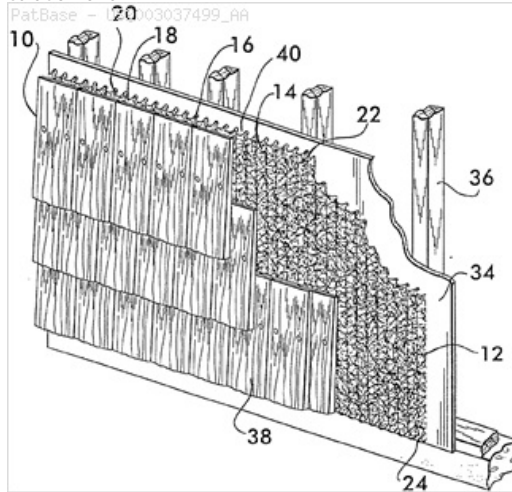
International (IPC 8-9): E04B1/62 E04B1/70 E04B1/76 E04D12/00 E04D13/17 (Advanced/Invention); E04B1/70 E04B1/76 E04D12/00 E04D13/00 (Core/Invention)

International (IPC 1-7): E04B1/62 E04B1/70 E04D

CPC: E04B1/7046 E04B1/7076 E04B1/7612 E04D12/002 E04D13/17

European: E04B1/70S2 E04B1/70V1 E04B1/76C1 E04D12/00B E04D13/17

US: 52/302.1 52/302.3 52/309.1 52/741.3 52/748.11 523/21



Family:

Publication number	Publication date	Application number	Application date
AU2002335626 AA	20030310	AU20020335626	20020801
CA2376583 AA	20030221	CA20022376583	20020313
CA2376583 C	20100921	CA20022376583	20020313
US2003037499 AA	20030227	US20010934240	20010821
US6594965 BB	20030722	US20010934240	20010821
WO03018930 A2	20030306	WO2002US24580	20020801
WO03018930 A3	20031106	WO2002US24580	20020801

Priority:

US20010934240 20010821 CA20022376583 20020313 WO2002US24580 20020801

Probable Assignee: BENJAMIN OBDYKE INC

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2002335626 AA	20030310	LSPB	+	published / reissued	
AU2002335626 AA	20040506	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
CA2376583 AA	20030221	LSPB	+	published / reissued	
CA2376583 AA	20070207	LSSES	+EEER	EXAMINATION REQUEST	
CA2376583 C	20100921	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2376583 C	20220313	PEXP		Calculated Patent Term Expiry	
US2003037499 AA	20030227	LSPB	+	published / reissued	
US2003037499 AA	20030702	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6594965 BB	20030722	LSGT	+	granted / extensions (spc, cpc, pte)	

US6594965 BB	20011011	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENJAMIN OBDYKE INCORPORATED, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:COULTON, MICHAEL S.; REEL/FRAME:012256/0561 EFFECTIVE DATE : 20010821
US6594965 BB	20030702	LSGT	PAT1	Patented Case	
US6594965 BB	20031125	LSRE	CC	CERTIFICATE OF CORRECTION	
US6594965 BB	20070122	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6594965 BB	20070913	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENJAMIN OBDYKE INCORPORATED, PENNSYLVANIA OLDPARTY : MERGER; ASSIGNOR:BENJAMIN OBDYKE INCORPORATED; REEL/FRAME:019817/0605 EFFECTIVE DATE : 20070831
US6594965 BB	20110124	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6594965 BB	20141231	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6594965 BB	20210821	PEXP		Calculated Patent Term Expiry	
WO03018930 A2	20030306	LSPB	+	published / reissued	
WO03018930 A3	20041013	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO03018930 A3	20060512	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : JP
WO03018930 A3	20060512	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : JP