

Search history

Search 1: FT=(build* W3 structure) and PD<20140827 and IC=(E04G13* OR E04G25*) (Results 305)
Search 2: FT=((build* W3 structure) NEAR (apparatus OR device)) and PD<20140827 and IC=(E04G13* OR E04G25*) (Results 6)
Search 3: 1 AND (FT = shutter*) (Results 45)
Search 4: 1 AND (FT = shutter* OR mold*) (Results 112)
Search 5: 4 AND (FT = apparatus OR device) (Results 67)
Search 6: 5 AND (FT = support) (Results 61)
Search 7: 6 AND (FT = tubular OR hollow OR shell) (Results 33)

Title: **APPARATUS** FOR CONCRETE **BUILDING STRUCTURE**

Abstract: Source: US3162418A (Claim 1) What is claimed is: A form **support** comprising, in combination, a base flange and a lower **tubular support** column vertically supported thereon, an upper **tubular** support column telescopically adjustable outside of said lower column, a horizontal member attached to said upper column at its upper end, a jack lift housing attachable to said lower column, a jack lift member attached to its upper end with a pivot member, said member having a partial circumferential recess of dimension to substantially fit one-half of the periphery of said lower column and yet be butt-able against the lower end of said upper column, a jack lift handle pivotal about said housing and engageable with said jack lift for vertical movement to a desired position, and vertically alignable grooves in said upper and lower columns to receive opposing wedge blocks means for interlocking said upper and lower columns at the said desired position.

Classifications:

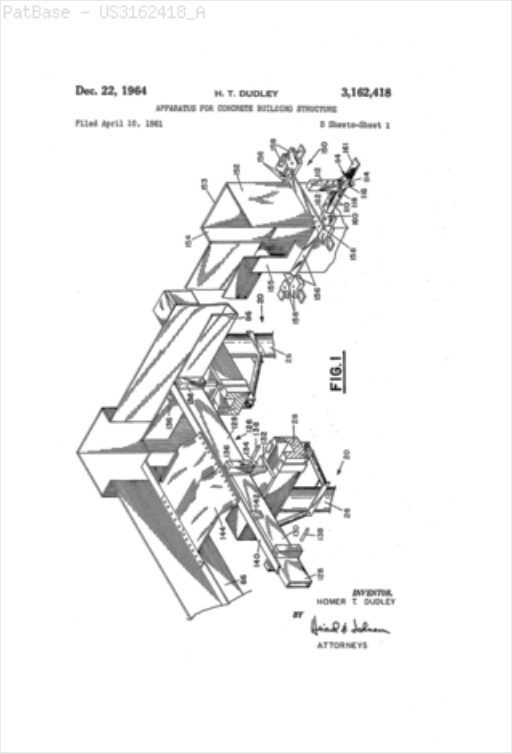
International (IPC 8-9): E04G13/04 E04G25/06 (Advanced/Invention); E04G13/00 E04G25/00 (Core/Invention)

International (IPC 1-7): E04G13/04 E04G25/06

CPC: E04G13/04 E04G25/06 E04G25/066 E04G2025/045

European: E04G13/04 E04G25/06

US: 249/210 249/48 249/50 254/108 254/109 254/111



Family:

Publication number	Publication date	Application number	Application date
US3162418 A	19641222	US19610101771	19610410

Priority:

US19610101771 19610410

Probable Assignee:

DUDLEY HOMER T

Assignee(s): (std):

DUDLEY HOMER T

Inventor(s): (std):

DUDLEY HOMER T

Title: METHOD OF MANUFACTURING PRESTRESSED CONCRETE BEAMS, AND **APPARATUS** FOR THE PERFORMANCE OF THE METHOD

Abstract: Source: GB1202320A 1,202,320. Beam **shuttering**. P. SCHRECK. 16 July, 1968 [18 July, 1967; 11 June, 1968 (2)], No. 33907/68. Heading E1S. **Shuttering** for a post-tensioned I-beam 9 forming part of a road bridge comprises side **shutters** 1 and 2 and a base **shutter** 3 fixedly connected to **shutter** 1, and detachably connected to **shutter** 2, the **shuttering** being used for casting laterally adjacent beams by moving **shutters** 1 and 3 horizontally, and lifting **shutter** 2 up, moving it horizontally and then lowering it into position. The **shuttering** can be moved longitudinally on lattice girders 21 arranged to slide within the **hollow** side **shutters** 1, 2. Each side **shutter** comprises annular transverse panels 10, radiators 14 for heating the concrete, and longitudinal prestressing members 13 which are arranged linearly or in a curve, and can give the **shutter** an initial camber to compensate for the weight of the beam. The **shuttering** face of the side **shutter** forming the under side of the upper flange of the beam may comprise a separate panel 30 (Fig. 4, not shown) which can be pivoted with respect to the **shutter** to alter the shape of the flange and to facilitate the stripping of the **shutter**.

Classifications:

International (IPC 8-9): B28B23/06 B28B7/00 E04C3/26

E04G11/46 (Advanced/Invention);

B28B23/02 B28B7/00 E04C3/20 E04G11/00 (Core/Invention)

International (IPC 1-7): B28B23/00 B28B23/18 E01D21/00

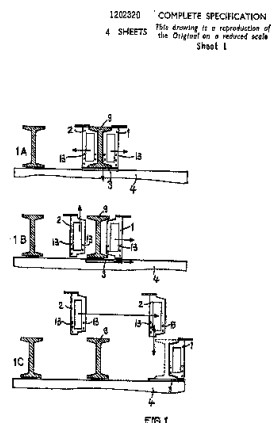
E01D21/02 E04C3/26 E04G11/46 E04G13/04

CPC: E04C3/26 B28B7/0038 B28B7/0041 B28B23/06 E04G11/46

European: B28B23/00I B28B23/06 B28B7/00B3B B28B7/00B3C

E04C3/26 E04G11/46

PatBase - GB1202320_A



Family:

Publication number	Publication date	Application number	Application date
AT289187 B	19710413	AT19680006346	19680702
CH474643 A	19690630	CH19680010575	19680715
DE1658629 A	19710519		00000000
DE1658629 B	19701008		00000000
DE1658629 B1	19701008	DE19671658629	19670718
DE1658629 C	19710519		19670718
DE1658629 C2	19710519	DE19671658629	19670718
DE1759821 B1	19711118	DE19681759821	19680611
DE1759822 A1	19710701	DE19681759822	19680611
FR1572048 A	19690620		19680717
GB1202320 A	19700812	GB19680033907	19680716
NL153797 B	19770715	NL19680010181	19680718
NL6810181 A	19690121	NL19680010181	19680718

Priority:

DE19671658629 19670718

DE1967SC41025 19670718

DE19681759821 19680611

DE19681759822 19680611

NL19686810181 19680718

Probable Assignee: PHILIPP SCHRECK DIPL ING

Assignee(s): (std): PHILIPP SCHRECK DIPL ING ; SCHRECK DIPL ING PHILIPP ; SCHRECK PHILIPP ; SCHRECK PHILIPP DIPL ING

Assignee(s): SCHRECK DIPL INGPHILIPP ; DIPL ING PHILIPP SCHRECK ; DIPL ING PHILIPP SCHRECK MUENCHEN BONDSREPUBLIEK DUTSLAND ; PHILIPP SCHRECK

Inventor(s): (std): SCHRECK PHILIPP DIPL ING ; SCHRECK PHILIPP ; SCHRECK DIPL ING PHILIPP

Inventor(s): PHILIPP SCHRECK ; DIPL ING PHILIPP SCHRECK ; SCHRECK DIPL INGPHILIPP

Title: **DEVICE** FOR SUCCESSIVELY **BUILDING** CONCRETE **STRUCTURES**

Abstract: Source: GB1207848A 1,207,848. **Shuttering**. KAO JING-HONG. 20 Dec., 1967 [16 Jan., 1967], No. 57845/67. Heading E1S. **Shuttering** for walls or columns of buildings, for walls of drainage or irrigation channel, or for linings of tunnels or manholes comprises a frame, e.g., A on which a number of panels B are pivotally mounted by means of brackets 2 and pivoting arms 1 so that when the frame is moved the panels can swing away from the cast concrete. Stops 3, 4 are provided to limit the movement of the panels relative to the frame, and as shown the brackets comprise tubes, which may be formed in two parts telescoped together (Fig. 4, not shown). The panels may be flat and lie in convergent planes to form a drainage channel wall (Fig. 7; not shown), or may be curved and arranged to define a major part of the periphery of a tunnel (Fig. 8, not shown), or the whole of the periphery of a manhole (Fig. 9, not shown). Alternatively, the panels may be arranged around the interior of a square frame (Fig. 10, not shown), to form a column.

Classifications:

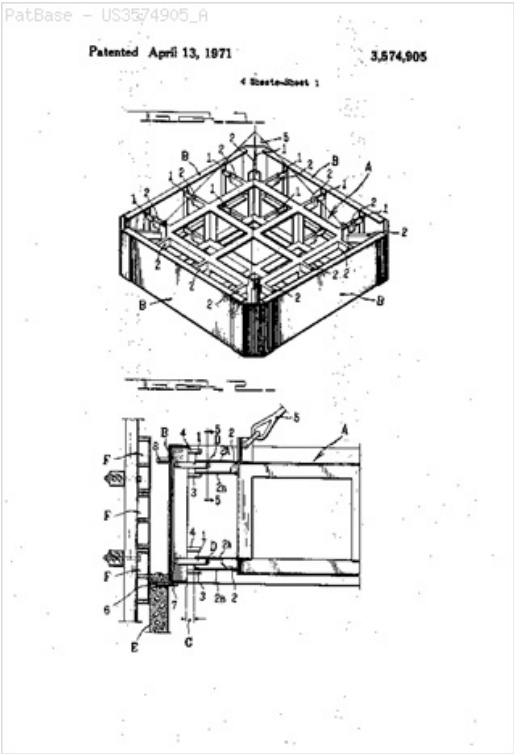
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International (IPC 1-7): A61G17/00 B28B7/00 E04G11/06 E04G11/20 E04G11/28 E04G13/02

CPC: E02B3/121 E04G11/082 E04G11/20 E04G11/28 E04G13/02 E21D11/102

European: E02B3/12B E04G11/08B E04G11/20 E04G11/28 E04G13/02 E21D11/10B

US: 249/11 249/20 249/48 251/310 425/110 425/59 425/63 425/65



Family:

Publication number	Publication date	Application number	Application date
GB1207848 A	19701007	GB19670057845	19671220
US3574905 A	19710413	US19670692082	19671220

Priority:

JP19670003225 19670116

Probable Assignee: JING HONG KAO
Assignee(s): (std): JING HONG KAO ; KAO JING HONG
Inventor(s): (std): JING HONG KAO
Inventor(s): KAO JING HONG

Title: **APPARATUS** FOR FORMING AND LIFTING MULTI-STORY COLUMNS IN ONE STORY INCREMENTS

Abstract: Source: US3692446A The basic **supporting** framework of reinforced concrete slabs and columns for a multi-story building is formed in a roof down fashion and erected in a continuous lifting process from the foundation level. Auxiliary column sections, which retain **molding** formworks for the columns and are **supportingly** tied to the formed concrete columns, **support** the load of the building, until the concrete at the bottom hardens, by bearing on adjustable bearing platforms at the foundation. Lifting **devices** at the foundation cooperate with the **supporting** auxiliary column sections to push the building up after each floor is built. The lifting **devices** raise the auxiliary columns off the cooperating adjustable bearing platforms to permit the insertion under and attachment to the auxiliary column assemblies of a further auxiliary column section with the lifting **devices** operating in step-by-step alternation with **support** of the auxiliary column assembly on the bearing platforms until the building is raised to the desired height for a new floor at which time a reinforcement cage for a new permanent concrete column to be poured is fixedly inserted in the newly created space within the auxiliary column and attached to the preceding column.

Classifications:

International (IPC 8-9): E04B1/35 E04B1/36 E04G13/02

E04H1/04 (Advanced/Invention);

E04B1/35 E04B1/36 E04G13/00 E04H1/04 (Core/Invention)

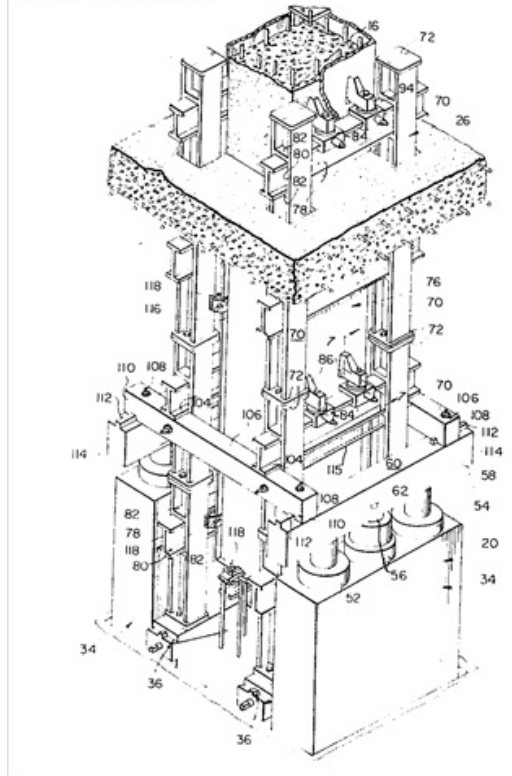
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CPC: E04B1/3511 E04G13/02 E04B1/3505

European: E04B1/35A E04B1/35B E04G13/02

US: 254/105 264/33 264/34 425/63 52/123.1 52/745 52/745.04

PatBase - US3692446_A



Family:

Publication number	Publication date	Application number	Application date
CA970122 A1	19750701	CA19730163617	19730213
DE2249166 A1	19740221	DE19722249166	19721006
FR2195736 A1	19740308	FR19720035621	19721006
FR2195736 B1	19760820	FR19720035621	19721006
GB1388500 A	19750326	GB19720046204	19721006
JP49045540 A2	19740501	JP19720100569	19721006
NL7213597 A	19740212	NL19720013597	19721006
US3692446 A	19720919	US19710114455	19710211
US3828513 A	19740813	US19720261685	19720612
US3831902 A	19740827	US19720279053	19720809
US3920780 A	19751118	US19740439945	19740205

Priority:

US19710114455 19710211
US19720279053 19720809

US19720261685 19720612

US19740439945 19740205

Probable Assignee: RESEARCH CORP

Assignee(s): (std): RESEARCH CORP ; RESEARCH CORP US

Assignee(s): VANDERKLAUW PETER M ; RESEARCH CORP NEW YORK N Y V ST A ; RES CORP US

Inventor(s): (std): VANDERKLAUW PETER MARTIN ; VANDERKLAUW PETER M ; VANDERKLAUW P

Inventor(s): PETER M VANDERKLAUW ; VANDERKLAUW P US ; VANDERKLAUW PETER MARTIN MIAMI FLA V ST A

Title: CONSTRUCTION FORM **SUPPORT** MEMBER

Abstract: Source: US3900182A A reusable, longitudinally adjustable, readily removable form **support** member for **supporting** a concrete construction form in an array of structural members in building construction. In a first embodiment, the form **support** member comprises telescoping parts having **support** pins on the opposed ends of the member for engaging openings in adjacent structural members. The pins may be movable in a horizontal plane so as to permit their alignment with the openings where necessary. Means are provided for relatively securing a center part against relative movement along with the telescoping end parts, the end parts being moved in a vertical plane relative to the **support** pins by respective activating means, so that in an upper position the bottom portions of the end parts and center part contact each other and effect a friction bond which prevents longitudinal movement of the respective parts; and in a lower position, i.e., retracted from a **supporting** relationship with a concrete form, may be readily removed from the installation. In another embodiment, the form **support** member includes bracing means to coact, for example, with the lower portion of the top chord of an open-web structural member and a positioning member to position the concrete construction form relative to the upper portion of the open-web structural member. 4 Claims, 4 Drawing Figures

Classifications:

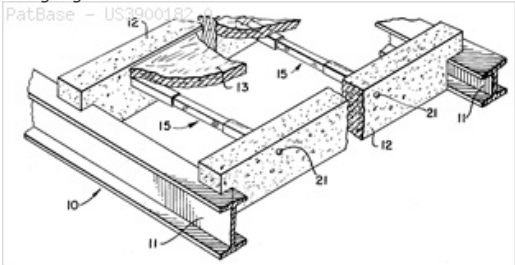
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E04G17/00 E04G17/18 E04G25/04 (Advanced/Invention);
E04G11/00 E04G17/00 E04G17/18 E04G25/00 (Core/Invention)

International (IPC 1-7): E04G11/42 E04G11/54 E04G11/56
E04G17/00 E04G25/04 E04G9/00

CPC: E04G11/42 E04G11/56 E04G17/18

European: E04G11/42 E04G11/56 E04G17/18

US: 248/354.1 248/354.4 249/210 249/24 52/632



Family:

Publication number	Publication date	Application number	Application date
CA1025642 A1	19780207	CA19730184617	19731030
DE2354696 A1	19740612	DE19732354696	19731030
FR2212842 A5	19740726	FR19730043266	19731204
GB1459194 A	19761222	GB19730053232	19731208
JP49088319 A2	19740823	JP19730134448	19731203
US3900182 A	19750819	US19720313488	19721208
US3993282 A	19761123	US19750543785	19750124

Priority:

US19720313488 19721208 US19750543785 19750124

Probable Assignee: COMPOSITE CONST SYSTEMS

Assignee(s): (std): COMPOSITE CONST SYSTEMS

Assignee(s): COMPOSITE CONST SYSTEMS INC US ; COMPOSITE CONSTRUCTION SYSTEMS ; COMPOSITE CONSTRUCTION SYSTEMS INC ; HOOPER IRA ; BERMAN HERBERT M

Inventor(s): (std): HOOPER IRA ; BERMAN HERBERT M

Inventor(s): M BERMAN HERBERT

Title: BUILDING SYSTEM AND COMPONENTS THEREOF.

Abstract: Source: EP0123264A2 The invention relates to a building process and means for in situ casting of **structures** as houses, **buildings**, dikes, silos, piping, culverts and the like. It is especially suited for building in series a given structure. More in particular, it refers to a **mold** formed by a number of parts to be assembled at the construction site and the use thereof. The **mold** is assembled on site and a castable material capable of hardening to a load-bearing structure, such as concrete, is poured into the **mold**. The thus cast structure then becomes a solid monolith. Once the structure is dry, the **mold** is completely or partially disassembled, taken to the next construction site and the process repeated. Particular **mold** elements and **devices** and techniques for use in conjunction with the **molds** are also described.

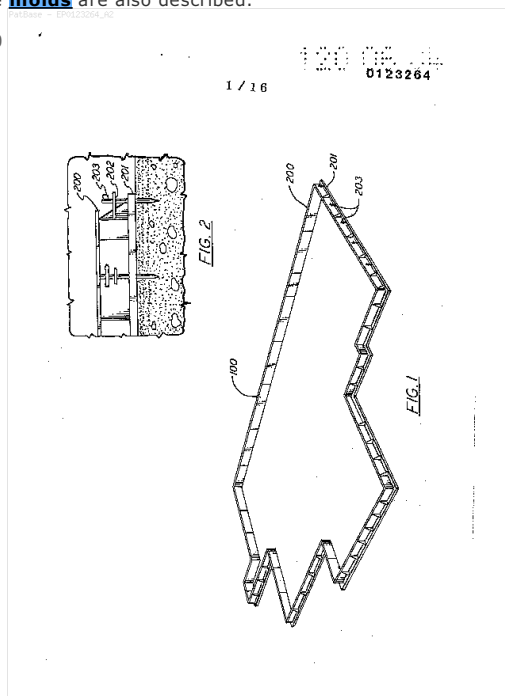
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International (IPC 8-9): E04B1/35 E04G11/02 E04G11/08 E04G11/10 E04G11/48 E04G13/00 E04G17/00 E04G9/00 E04G9/06 (Advanced/Invention); E04B1/35 E04G11/00 E04G13/00 E04G17/00 E04G9/00 E04G9/02 (Core/Invention)

International (IPC 1-7): E04B1/16 E04B1/35 E04G11/00 E04G11/02 E04G11/08 E04G11/2 E04G17/04 E04G9/00 E04G9/06

CPC: E04G2009/028 E04G13/00 E04G9/06 E04G11/10 E04G11/48 E04G17/001

European: E04G11/10 E04G11/48 E04G13/00 E04G17/00B E04G9/06



Family:

Publication number	Publication date	Application number	Application date
AU198426895 A1	19841025	AU19840026895	19840417
BRPI8401812 A	19841127	BR1984PI01812	19840417
EP0123264 A2	19841031	EP19840104368	19840417
EP0123264 A3	19861022	EP19840104368	19840417
ES531697 A0	19860301	ES19840531697	19840417
ES542315 A0	19861016	ES19850542315	19850416
ES8605068 A1	19860301	ES19840531697	19840417
ES8700718 A1	19861016	ES19850542315	19850416
FR2544356 A1	19841019	FR19840005973	19840416
FR2544356 B1	19870717	FR19840005973	19840416
FR2550571 A1	19850215	FR19840015763	19841015
FR2550571 B1	19870717	FR19840015763	19841015
JP60092556 A2	19850524	JP19840078276	19840418
MX159583 A	19890706	MX19840200875	19840402
MX159773 A	19890817	MX19840201075	19840418

Priority:

FR19840005973 19840416 US19830485901 19830418 US19830537500 19830930

Probable Assignee: MECCANO DE MEXICO S A DE C V

Assignee(s): (std): BARCONS S P ; MECCANO DE MEXICO S A DE C V ; PUJOL BARCONS SALVADOR ; SARUBADOO PUJIYORU BAAKONZU ; SALVADOR PUJOL BARCONS

Assignee(s): BARCONS SALVADOR PUJOL ; BARCONS SP ; MECCANO DE MEXICO DE CV SA

Inventor(s): (std): SARUBADOO PUJIYORU BAAKONZU ; BARCONS SALVADOR PUJOL ; PUJOL BARCONS SALVADOR

Inventor(s): SALVADOR PUJOL BARCONS

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

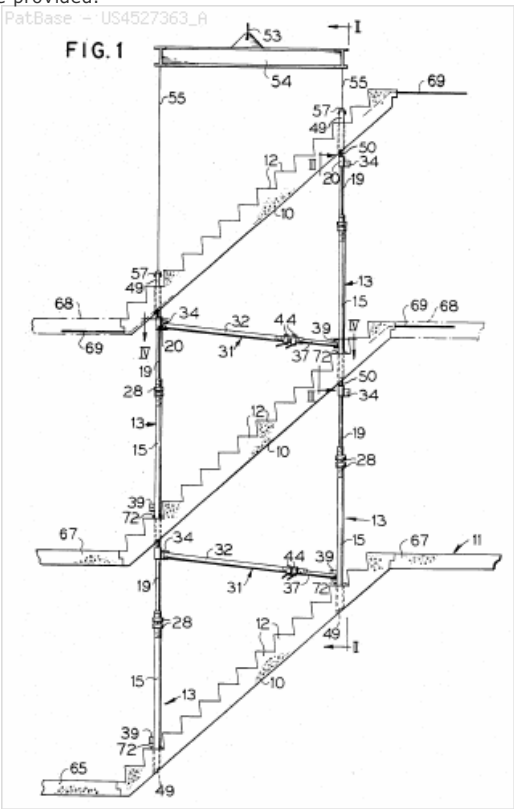
Designated states: AT DE FR GB IT

Title: Erecting precast horizontal slabs in building construction

Abstract: Source: US4527363A A method of and means for erecting precast slabs in building construction wherein the slabs are **supported** on prefabricated temporary generally rectangular walkthrough self-stable shoring frame assembly. A generally U-shaped base member is assembled with a staff structure which may be in the form of an inverted U-shaped arrangement in which upstanding arms on the base member are telescopically adjustably connected with depending arm extensions of the staff member. Diagonal, adjustable struts may connect cooperating units of the shoring frame assembly. Combination slab lifting and shoring frame locating pin-like fingers are provided.

Classifications:

International (IPC 8-9): E04G1/14 E04G11/48
E04G21/26 (Advanced/Invention);
E04G1/00 E04G11/00 E04G21/24 (Core/Invention)
International (IPC 1-7): E04G1/14 E04G25/00
CPC: E04G21/26 E04G1/14 E04G11/48
European: E04G1/14 E04G11/48 E04G21/26
US: 182/178 182/178.1 182/179 182/180.1 248/354.1 52/1 52/122.1 52/126.1 52/126.6 52/185 52/638 52/646



Family:

Publication number	Publication date	Application number	Application date
US4527363 A	19850709	US19850360797	19850709

Priority:

US19820360797 19820322 US19850360797 19850709

Probable Assignee: SAETHER KOLBJORN

Assignee(s): (std): SAETHER KOLBJORN

Inventor(s): (std): SAETHER KOLBJORN

Abstract: Source: DE8906507U1 (Claim 1) 1. Vorrichtung zur Sicherung von Raeumen durch Verspannen einer Stuetze zwischen Decke und Boden, insbesondere berg- maennisch hergestellter Hohlraeume im untertaegigen Berg-und Tunnelbau, bestehend aus einem Gewebebehaelter aus wasserdurchlaessigen, hochfesten Faeden mit Einfuelloeffnung fuer den pumpfaehigen und erhaertenden Baustoff oder eines aehnlichen Stuetz materials und mit einem der Form des Gewebebehaelters angepassten und anpassbaren Stuetzgeruest, d g e k e n n z e i c h n e t, dass das Stuetzgeruest (7) innerhalb des Gewebebehaelters (6) vollstaendig vom Gewebe (9) umhuellet angeordnet und die Hoehe bzw. Laenge der Baustoffstuetze (1) vorgebend ausgebildet ist.

Machine translation: (Claim 1) 1 **Device** for securing of premises by clamping a **support** between the ceiling and floor, especially mountain-mannish produced cavities in untartaegigen mining and tunnel construction, consisting of a Gewebebehaelter of water-permeable, high-strength fibers with opening for the pumpable and hardening building material or similar **supporting** material and with one in the form of pastes and customizable Gewebebehaelters Stuetzgeruest, dgekennzeichnet that Stuetzgeruest (7) within the Gewebebehaelters (6) completely from the tissue (9) arranged and wrapped the height or length of Baustoffstuetze (1) is trained pretending.

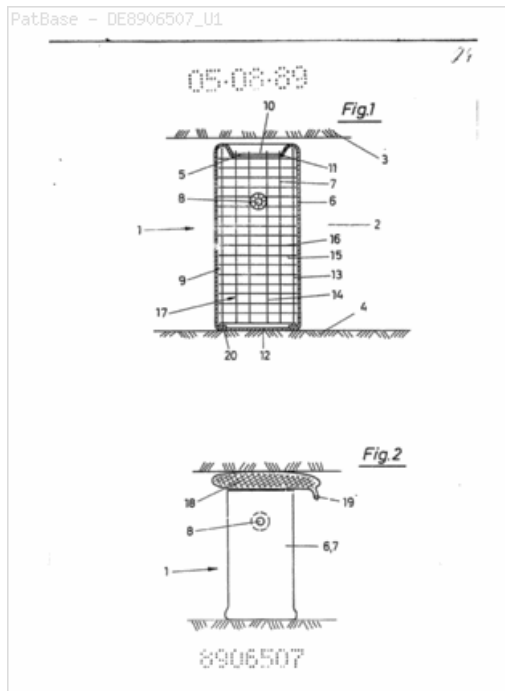
Classifications:

International (IPC 8-9): E04G25/00 E21D15/48 (Advanced/Invention); E04G25/00 E21D15/00 (Core/Invention)

International (IPC 1-7): B65B1/18 E04G25/02 E21D19/00

CPC: E04G25/00 E21D15/483

European: E04G25/00 E21D15/48F

**Family:**

Publication number	Publication date	Application number	Application date
DE8906507 U1	19890907	DE19890006507U	19890526

Priority:

DE19890006507U 19890526

Probable Assignee: SCHULTE KLAUS DR 4600 DORTMUND DE

Assignee(s): SCHULTE KLAUS DR 4600 DORTMUND DE

Title: Building construction system

Abstract: Source: US5263835A PCT No. PCT/AU90/00042 Sec. 371 Date Jul. 26, 1991 Sec. 102(e) Date Jul. 26, 1991 PCT Filed Feb. 6, 1990 PCT Pub. No. WO90/09497 PCT Pub. Date Aug. 23, 1990. A building construction system for progressively forming a plurality of vertical superimposed concrete segments. A plurality of screw jacks form **support** columns and carry at their upper ends sub-frames upon which an overlying main frame is positioned. Formworks are suspended from the main frame and are moveable into position for pouring concrete to form the segments. The screw jacks are **supported** on a horizontal building element preceding a previously constructed horizontal building element and are retractable. The main frame is **supported** on adjustable struts for repositioning the screw jacks prior to extension to a subsequent segment forming position.

Classifications:

International (IPC 8-9): E04G11/24 E04G11/28 E04G13/00

E04G21/32 (Advanced/Invention);

E04G11/00 E04G13/00 E04G21/32 (Core/Invention)

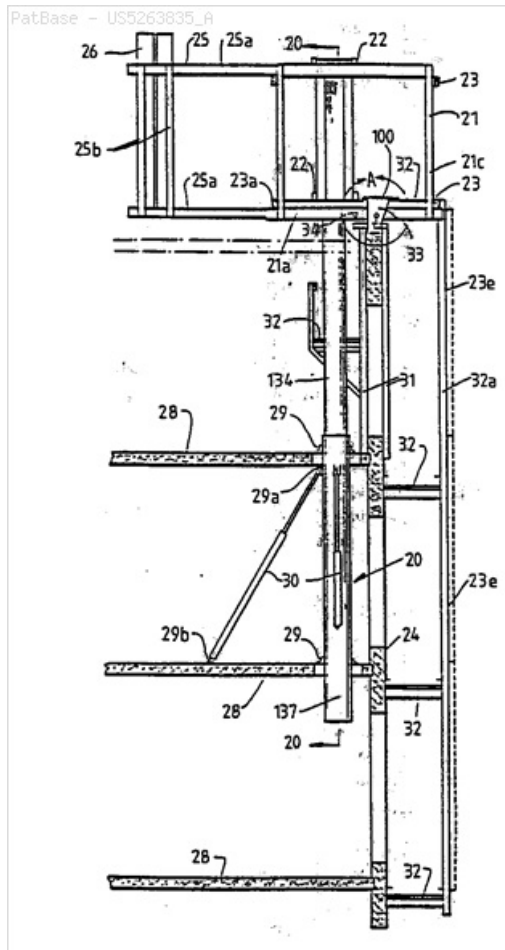
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E04G13/00

CPC: E04G11/28

European: E04G11/28

US: 249/20 264/33 425/64 425/65



Family:

Publication number	Publication date	Application number	Application date
AU199050897 A1	19900905	AU19900050897	19900206
AU651555 B2	19940728	AU19900050897	19900206
BRPI9007101 A	19911105	BR1990PI07101	19900206
CA2045509 AA	19910710	CA19902045509	19900206
CN1028556 C	19950524	CN19901000609	19900208
CN1044841 A	19900822	CN19901000609	19900208
EP0457806 A1	19911127	EP19900902973	19900206
EP0457806 A4	19920701	EP19900902973	19900206
JP4505040 T2	19920903	JP19900503146T	19900206
KR19927001599 A	19920812	KR19917000851	19900206
NZ232441 A	19921223	NZ19900232441	19900208
OA9389 A	19920915	OA19910060057	19910805
US5263835 A	19931123	US19910730814	19910726
WO9009497 A1	19900823	WO1990AU00042	19900206
ZA9000898 A	19910227	ZA19900000898	19900207

Priority:

AU1989PJ02627 19890208

AU19900050897 19900206

WO1990AU00042 19900206

Probable Assignee: LUBECA CONSTR SYST PTY LTD

Assignee(s): (std): LUBECA CONSTR SYST PTY LTD ; LUBECA CONSTRUCTION SYSTEMS ; LUBECA CONSTRUCTION SYSTEMS PT ; LUBECA CONSTRUCTION SYSTEMS PTY

Assignee(s): LUBECA CONSTRUCTION SYSTEMS PTY LTD AUSTRALIE ; SCHMIDT HANS HEINRICH ; LUBECA CONSTRUCTION SYSTEMS PTY LTD ; LUBECA CONSTRUCTION SYSTEMS PTY LTD

Inventor(s): (std): SCHMITT HANS HEINRICH ; SCHMIDT HANS HEINRICH ; SCHMIDT HANS H ; HEINRICH SCHMITT HANS ; HEINRICH SCHMIDT HANS ; HANS HEINRICH SCHMIDT

Inventor(s): HANS HEINRICH SCHMITT

Agent(s): GRIFFITH HACK; MACRAE AND CO

Designated states: AT AU BB BE BF BG BJ BR CA 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

Title: STUETZELEMENTE FUER GERAETE STUETZELEMENTE for **devices** (Machine translation)

Abstract: Source: DE9317269U1 (Claim 1) 1. Stuetzelemente fuer Geraete deren Stuetzen 5 Kontaktpunkte zur Stuetzebene haben, dadurch gekennzeichnet, dass sie aus einer Anordnung schachtelbarer Bauteile zusammengesetzt sind, wobei die Verbindung der 5 Kontaktpunkte untereinander so ausgefuehrt sind, dass die Stuetzelemente eine zentrale Einfuehroeffnung (3; 4) und eine der Einfuehroeffnung gegenueberliegende Einfuehrspitze (1) besitzen.

Machine translation: (Claim 1) 1 Stuetzelemente for **devices** which **support** 5 contact points have to Stuetzebene, characterized in that they are composed of an array of nestable components, wherein the compound of 5 contact points are mutually executed so that the Stuetzelemente a central insertion (3, 4) and the insertion opposite insertion (1) possess.

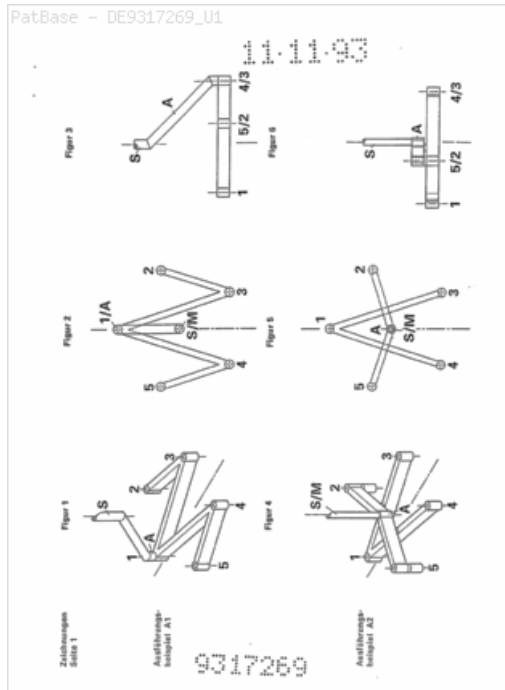
Classifications:

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

International (IPC 1-7): E04G25/00 F16M13/00

CPC: F16M2200/08 F16M11/38

European: F16M13/00



Family:

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Probable Assignee: HOFFMANN UWE

Assignee(s): (std): HOFFMANN UWE ; THELEN NICOLE

Assignee(s): THELEN NICOLE 42105 WUPPERTAL DE ; HOFFMANN UWE 42117 WUPPERTAL DE