

Search history

Search 1: (CPC = E04G25/*) AND (PD<20150113) (Results 2089)

Search 2: 1 AND (FT = (discharge OR unload*) W3 support*) (Results 8)

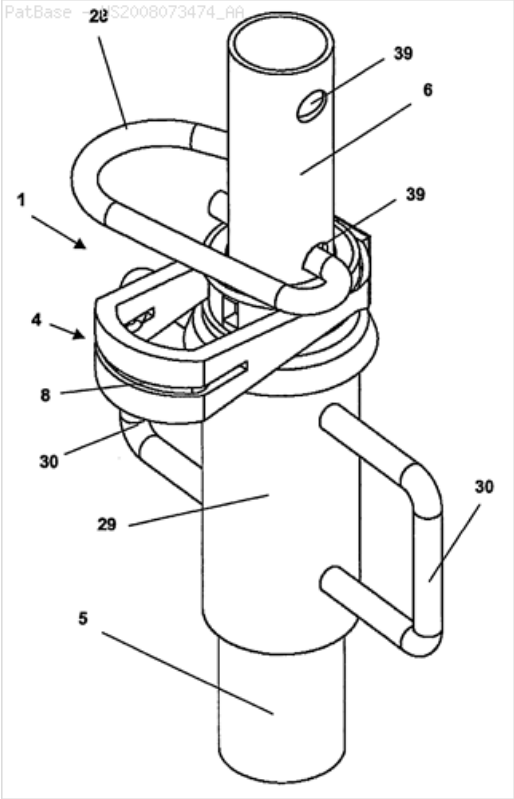
Search 3: 1 AND (FT = (discharge OR unload*) NEAR support*) (Results 9)

Title: DEVICE TO AID THE UNLOADING OF SUPPORT ELEMENTS

Abstract: A device to aid the unloading of support elements, such as props or falsework comprised of two tubular elements, a lower shaft and an upper shaft, telescopically coupled, the device comprising essentially annular first and second bodies coaxially couplable, each body provided with a through-hole adapted so that when both bodies are duly coupled the upper shaft of the support element can pass through, which can rest on said first body, being able the second body to rest on the lower shaft; and an intermediate unloading wedge, being positioned between both bodies coupled together, able to slide transversally with respect thereto, and so that its sliding causes, when the support element is in a vertical position, the first body and the second body to come together or move apart in the longitudinal direction of the support element and, therefore, reduce or increase, respectively, the total length of the support element.

Classifications:

International (IPC 8-9): A47F5/00 E04G25/06
E21D15/58 (Advanced/Invention);
A47F5/00 E04G25/00 E21D15/00 (Core/Invention)
International (IPC 1-7): E04G25/06
CPC: Y10T403/32501 E04G25/06 E04G25/061 E04G25/065
E04G25/068
European: E04G25/06
US: 248/351 248/354.3 248/354.4 248/354.5 403/109.5 52/149



Family:

Publication number	Publication date	Application number	Application date
CN101052773 A	20071010	CN200580031378	20050901
CN101052773 B	20120229	CN200580031378	20050901
EP1805380 A1	20070711	EP20050789569	20050901
ES2294874 AA	20080401	ES20040002236	20040920
ES2294874 BA	20090201	ES20040002236	20040920
IN01235KN2007 A	20070720	IN2007KN01235	20070409
IN279970 B	20170210	IN2007KN01235	20070409
RU2007112935 A	20081027	RU20070112935	20050901
RU2379448 C2	20100120	RU20070112935	20050901
US2008073474 AA	20080327	US20050663193	20050901
US7744054 BB	20100629	US20050663193	20050901
WO06032351 A1	20060330	WO2005EP09422	20050901

Priority:

ES20040002236 20040920 WO2005EP09422 20050901

Probable Assignee: INVERAL SA

Assignee(s): (std): ENCOFRADOS J ALSINA S A ; ENCOFRADOS J ALSINA SA ; ENVERAL S A ; INVERAL SA ; INVERAL S A ; XAMMAR BOVE PEDRO ; ENVIRAL GMBH

Assignee(s): ENVERAL SA

Inventor(s): (std): XAMMAR BOVE PEDRO ; PEDRO HARMERBOWIE ; KSAMMAR BOVE PEDRO

Inventor(s): HARMERBOWIE PEDRO ; XMMAR BOVE PEDRO ; PEDRO XAMMAR BOVE

Agent(s): SUGHRUE MION PLLC

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

Title: GROUND BASED SUPPORT RACK ESPECIALLY FOR TELESCOPIC RODS

Abstract: The support rack is formed as a carriage (1) which has rollers (13) on the ground side. A vertical fastening is attached to the carriage which is in connection with a telescopic rod. The fastening has a vertical guide element (17) which is relocatable held from an upper position to a position by which the fastening contacts the ground. A readjusting spring (19) is provided between the carriage and the fastening and so dimensioned, that the fastening with the no-load rod is forced in the upper position. Preferably, the fastening allows detachment of the rod.

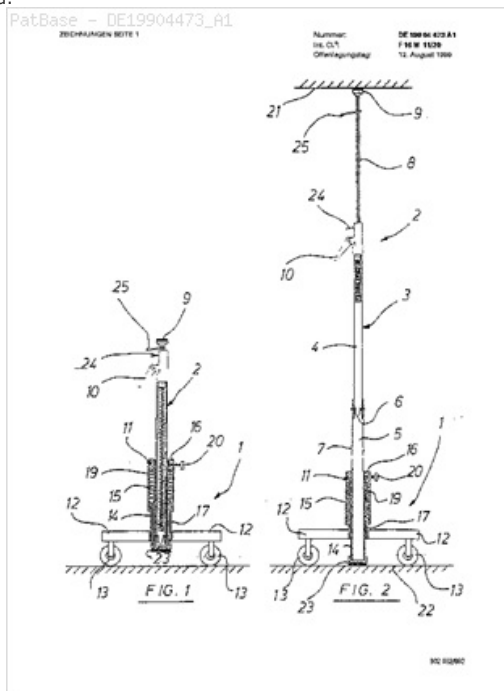
Classifications:

International (IPC 8-9): B25H1/00 B66F1/02 E04F21/18 E04G25/04 F16M11/28 F16M11/42 (Advanced/Invention); B25H1/00 B66F1/00 E04F21/18 E04G25/00 F16M11/00 F16M11/20 (Core/Invention)

International (IPC 1-7): E04F21/18 E04G1/32 E04G25/08 F16M11/20 F16M11/26 F16M11/28

CPC: F21L14/04 F21V21/06 F21W2131/20 E04F21/1805 B25H1/0035 B66F1/02 E04F21/1833 E04G25/04 F16M11/28 F16M11/42 F16M13/027 F16M2200/028

European: B25H1/00C2 B66F1/02 E04F21/18B E04G25/04 F16M11/28 F16M11/42 P04F21/18B10

**Family:**

Publication number	Publication date	Application number	Application date
DE19904473 A1	19990812	DE19991004473	19990204
DE19904473 C2	20010215	DE19991004473	19990204
DE29802329 U1	19980507	DE19982002329U	19980211

Priority:

DE19982002329U 19980211 DE19991004473 19990204

Probable Assignee: BETZENHOFER WERNER ADOLF

Assignee(s): (std): BETZENHOFER WERNER ADOLF

Assignee(s): BETZENHOFER WERNER ADOLF 86668 KARLSHULD DE

Inventor(s): (std): BETZENHOFER WERNER ADOLF

Inventor(s): BETZENHOFER WERNER ADOLF 86668 KARLSHULD DE

Title: SUPPORTING ELEMENT

Abstract: PCT No. PCT/SE94/00589 Sec. 371 Date Dec. 8, 1995 Sec. 102(e) Date Dec. 8, 1995 PCT Filed Jun. 16, 1994 PCT Pub. No. WO95/00732 PCT Pub. Date Jan. 5, 1995A supporting element for supporting a construction on a supporting surface includes a bearing part with an inner section and two outer, bending resistant sections, spacer screws keeping the bearing part at a distance from the supporting surface, and clamping members extending upwardly from the outer sections to define a space for the receipt of an element of the construction. The inner section is bendable by the influence of the construction element load, and the clamping plates are located in a plane perpendicular to the construction element. The clamping plates press, in free engagement, against the opposite sides of the construction element with clamping forces generated by the construction element load on the bendable inner section.

Classifications:

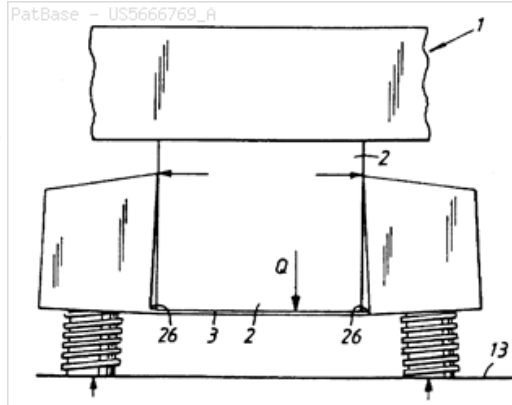
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International (IPC 1-7): E02D27/01 E04B1/36 E04C3/04 E04F15/00 E04F15/024 E04F21/20 E04G21/18

CPC: E04F15/02044 E04F2015/02061 H02G3/263 E02D27/32 E04B5/00 E04B5/12 E04D11/007 E04F21/05 E04G21/10 E04G25/00 F16M7/00

European: E02D27/32 E04B5/00 E04B5/12 E04D11/00D1 E04F15/024D4 E04F15/024D6B E04F21/05 E04G21/10 E04G25/00 F16M7/00 H02G3/26B P04F201/05C T02G3/26B

US: 248/188.4 248/300 248/346.04 52/126.1 52/126.4 52/365 52/370 52/480



Family:

Publication number	Publication date	Application number	Application date
AT180534 E	19990615	AT19940919932T	19940616
AU199470880 A1	19950117	AU19940070880	19940616
CA2164625 AA	19951206	CA19942164625	19940616
CA2164625 C	20041102	CA19942164625	19940616
DE69418712 D1	19990701	DE19946018712	19940616
DE69418712 T2	19991216	DE19946018712T	19940616
DK0704012 T3	19991108	DK19940919932T	19940616
EP0704012 A1	19960403	EP19940919932	19940616
EP0704012 B1	19990526	EP19940919932	19940616
FI116476 B	20051130	FI19950005992	19951214
FI955992 A	19951214	FI19950005992	19951214
FI955992 A0	19951214	FI19950005992	19951214
JP3455539 B2	20031014	JP19950502707T	19940616
JP8511595 T2	19961203	JP19950502707T	19940616
NO305446 B1	19990531	NO19950004988	19951208
NO954988 A	19951208	NO19950004988	19951208
NO954988 A0	19951208	NO19950004988	19951208
PL173481 B1	19980331	PL19940311962	19940616
PL311962 A1	19960318	PL19940311962	19940616
RU2129196 C1	19990420	RU19960100046	19940616
RU96100046 A	19980327	RU19960100046	19960117
SE502606 C2	19951120	SE19930002090	19930617
SE9302090 A	19941218	SE19930002090D	19930617
SE9302090 A0	19930617	SE19930002090	19930617
SE9302090 L	19941218	SE19930002090	19930617
US5666769 A	19970916	US19950556971	19951208
WO9500732 A1	19950105	WO1994SE00589	19940616

Priority:

SE19930002090 19930617 WO1994SE00589 19940616

Probable Assignee: NIVELL SYSTEM AB

Assignee(s): (std): LUNDQUIST LARS OLOF ; NIVELL SISTEM AKTIEBOLAG ; NIVELL SYSTEM AB ; NIVELL SYSTEM AB MARIESTAD

Assignee(s): NIVELL SYSTEM MARIESTAD AB ; NIVELL SYSTEM AKTIEBOLAG FORRADSGATAN ; NIVELL SYSTEM AB MARIESTAD SE ; NIVELL SYSTEM AKTIEBOLAG ; LARS OLOF LUNDQUIST

Inventor(s): (std): LUNDKVIST LARS OLOF ; LUNDQUIST LARS OLOF

Inventor(s): LUNDQUIST LARS OLOF S 653 51 KARLSTAD SE ; LUNDKVIST LARS-OLOF ; LARS OLOF LUNDQUIST

Agent(s): GOWLING LAFLEUR HENDERSON LLP

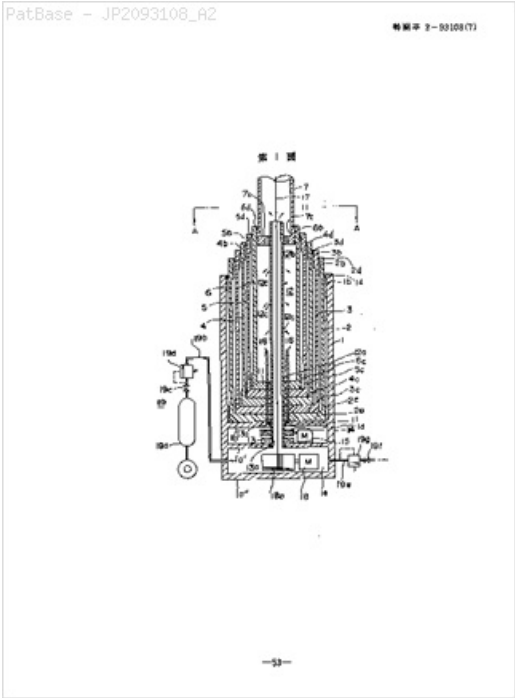
Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA US UZ VN

Title: EXPANSION SUPPORT DEVICE

Abstract: PURPOSE:To give play to handy mobile power by extendingly assembling a support by the supply of compressed gas while giving a normal rotation to a core body and contractingly folding the **support** by the **discharge** of the gas while giving a reverse rotation to the core body. CONSTITUTION:By compressed gas supplied to a core body 12, respective cylindrical bodies 1-7 are lifted in order of their diameters starting from the smallest one so that a support can be extended and also a normal rotation given to the core body 12 by a rotary body 15 gives rotation to a cylindrical body 7 and has an engaging part 7c staying at the lower end of the cylindrical body connected to a part 6b to be engaged staying at the upper end of the cylindrical body and inserted therein and in the same way, thereafter respective cylindrical bodies 6-2 are lifted in order so that respective cylindrical bodies 1-7 can be extendingly assembled to the support. By giving a reverse rotation to the core body 12 and discharging the compressed gas gradually, respective cylindrical bodies 2-7 are pulled into the cylindrical body 1 used to enclose those cylindrical bodies in order of their diameters from the largest one so as to contractingly fold the support. Thus, photographing, lighting or measuring and other various operation from a high place can be performed easily.

Classifications:

International (IPC 8-9): E04G25/04 E04H12/18
F16B7/14 (Advanced/Invention);
E04G25/00 E04H12/00 F16B7/00 (Core/Invention)
International (IPC 1-7): E04G25/04 E04H12/18 F16B7/14
CPC: E04G2025/047



Family:

Publication number	Publication date	Application number	Application date
JP1749169 C3	19930408	JP19880242434	19880929
JP2093108 A2	19900403	JP19880242434	19880929
JP4037285 B4	19920618	JP19880242434	19880929

Priority:

JP19880242434 19880929

Probable Assignee: K AND M ENTERP KK
Assignee(s): (std): K AND M ENTERP KK
Assignee(s): NIPPON SUKAI ROBOTSUTO KK
Inventor(s): (std): ATSUKAWA MASUMI

Title: BESTANDTEILE FUER DIE REALISIERUNG VON ABSTUETZUNGEN MIT WEITWINKLIGER NEIGUNG FUER STRUKTUREN

Abstract: The system has a support, with a coupling zone at one end. An end element (2) has an spherical end (3), and its diameter (DF) centre is located on the axis of the support. The end has a cylindrical surface (5), with a co-axial projecting bar (6) fitted into the end of the support. A prismatic support element (8) has sides (LB), which are longer than the diameter of the end element. The side surfaces have a seat (9), which is semi-circular, and holds the spherical end of the end element. **ADVANTAGE** - The system supports structures with wide-angled inclination.

Classifications:

International (ipc 8-9): E04G21/26 E04G25/00 F16B9/00 F16C11/06 (Advanced/Invention);

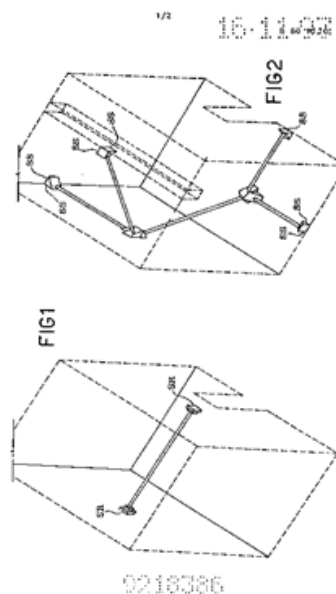
E04G21/24 E04G25/00 F16B9/00 F16C11/06 (Core/Invention)

International (ipc 1-7): E04B1/19 E04G1/02 E04G21/26 E04G25/00 F16B9/00 F16C11/06 F16S3/04 F16S3/08

CPC: E04G2025/006 E04G21/26 E04G25/00 F16B9/00 F16C11/0619

European: E04G21/26 E04G25/00 F16B9/00 F16C11/06C

PatBase - DE9218386_U1



Family:

Publication number	Publication date	Application number	Application date
DE4243117 A1	19930701	DE19924243117	19921221
DE9218386 U1	19940217	DE19920018386U	19921221
FR2689550 A1	19931008	FR19920015621	19921223
FR2689550 B3	19940318	FR19920015621	19921223
IT225795 Y1	19970124	IT1991TA00003U	19911224
ITTA910003 U0	19911224	IT1991TA00003U	19911224
ITTA910003 U1	19930624	IT1991TA00003U	19911224
NL194555 B	20020301	NL19920002239	19921223
NL194555 C	20020702	NL19920002239	19921223
NL9202239 A	19930716	NL19920002239	19921223

Priority:

IT1991TA00003U 19911224 DE19924243117 19921221

Probable Assignee: IDROS S R L

Assignee(s): (std): IDROS S R L ; IDROS S R L TE TARANTO ITALIE ; IDROS SRL

Assignee(s): IDROS SRL TE TARANTO ITALIE ; IDROS SOCIETA A RESPONSABILITA LIMITATA ; IDROS S R L TARANTO IT

Inventor(s): (std): CASSONE ; CASSONE LUIGI ; LUIGI ; LUIGI CASSONE

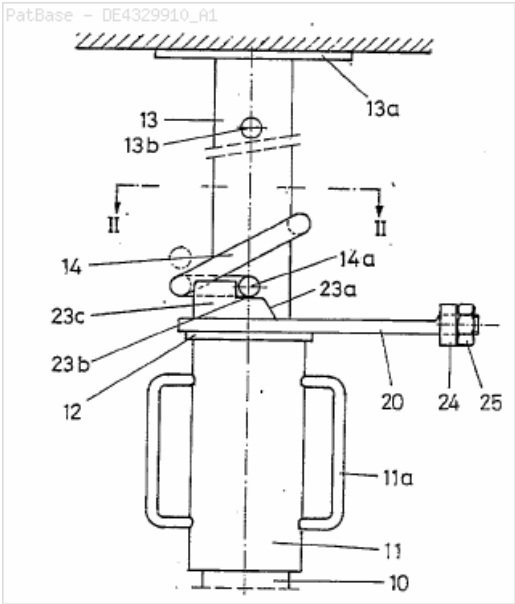
Inventor(s): CASSONE LUIGI TARANTO IT

Title: VERTICALLY ADJUSTABLE SUPPORT FOR A FLOOR SHUTTERING

Abstract: By virtue of the telescopic extension of an upper tube 13 out of a lower tube 10, the support is vertically adjustable. In this arrangement, a plug-in bolt 14a is supported in the upper tube on two supporting surfaces 23b. The supporting surfaces are on a transversely displaceable plate 20. By displacing the plate to the left, the support can be relieved. In this arrangement, the plug-in bolt 14a slides onto the plate surface. The plate is of a U-shaped design and is closed on the open side by a screwed-on lug 24. Upon mounting, the plate is pushed on in the open state and is then closed by screwing on the lug. This design of the plate makes it possible to retrofit existing supports with such a plate without a rapid lowering operation.

Classifications:

International (IPC 8-9): E04G11/48 E04G25/06 (Advanced/Invention);
E04G11/00 E04G25/00 (Core/Invention)
International (IPC 1-7): E04G11/48 E04G25/04
CPC: E04G25/061 E04G25/063 E04G25/065 E04G25/066
E04G25/068 E04G25/06 E04G11/483
European: E04G11/48B E04G25/06



Family:

Publication number	Publication date	Application number	Application date
DE4329910 A1	19950309	DE19934329910	19930904

Priority:

DE19934329910 19930904

Probable Assignee: MUELLER AND BAUM

Assignee(s): (std): MUELLER AND BAUM

Assignee(s): MUELLER AND BAUM GMBH AND CO 59846 SUNDERN DE KG ; MUELLER AND BAUM GMBH AND CO KG 59846 SUNDERN DE

Inventor(s): (std): MUELLER WILLI ; BAUM SIEGMAR

Inventor(s): BAUM SIEGMAR 59846 SUNDERN DE ; MUELLER WILLI 59846 SUNDERN DE

Title: SHORING JACK

Abstract: (Claim 1) 1. A shorin.- jack comprising: a load-slipporting member; a supporting plate for said member; a free-floating element disposed between said member and said plate to transmit the load from said member to said plate; and means for loosely holding said supporting plate and element on said member for limited universal tilting movement of the plate relative to the axis of the member with a rolling action in all directions transversely of the axis of the member.

Classifications:

International (ipc 8-9): E04G25/04 (Advanced/Invention);

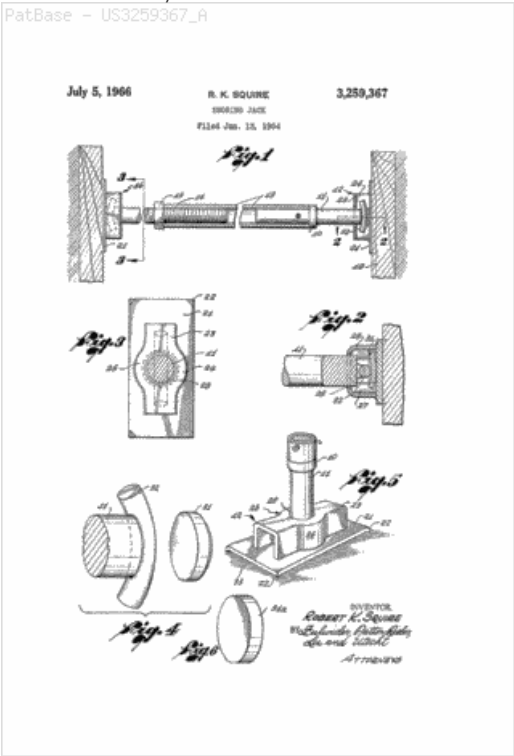
E04G25/00 (Core/Invention)

International (ipc 1-7): B66F3/08 E04G25/04

CPC: E04G25/065 E04G25/04

European: E04G25/04

US: 254/101



Family:

Publication number	Publication date	Application number	Application date
US3259367 A	19660705	US19640337379	19640113

Priority:

US19640337379 19640113

Probable Assignee: WACO INT CLEVELAND INC CLEVELAND OH AN OH CORP

Assignee(s): (std): SUPERIOR SCAFFOLD CO

Assignee(s): UNITED STATES WACO CORP INC ; WACO FORM SCAFF INC ; WACO INT ; UNITED STATES WACO CORP INC A CORP OF FL ; WACO FORM SCAFF (CLEVELAND) INC ; WACO FORM SCAFF CLEVELAND INC ; WACO INT (CLEVELAND) INC CLEVELAND OH AN OH CORP ; WACO INT CLEVELAND INC CLEVELAND OH AN OH CORP ; STEEPLEJACK WACO (CLEVELAND) INC A CORP OF IL ; STEEPLEJACK WACO CLEVELAND INC A CORP OF IL ; STEEPLEJACK WACO INC

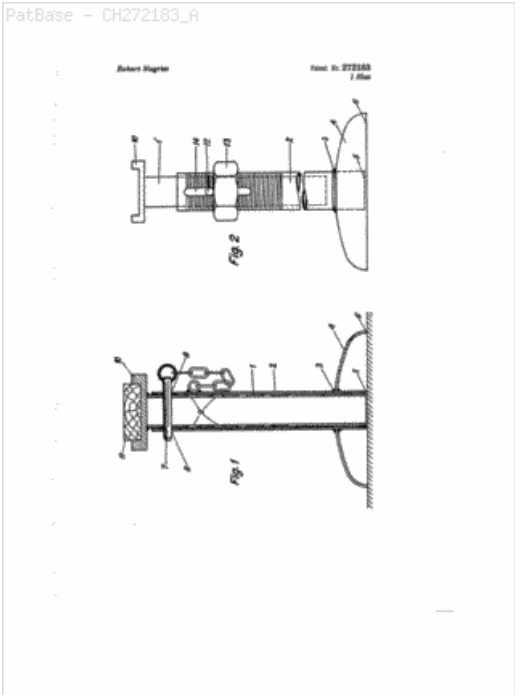
Inventor(s): (std): SQUIRE ROBERT K

Title: STUETZE. SUPPORT. (Machine translation)

Abstract: Source: CH272183A [DE] (Claim 1) 1: Stuetze nach Patentanspruch, dadurch ge kennzeichnet, dass das schalenfoermige Auf lager am Stuetzenteil hinter dem Ende des letz teren befestigt ist.

Machine translation: (claim 1) 1: upright supports of claim, characterized in that the schalenfoermige is attached to the shelf on the back end of last Stuetzenteil Teren.

Classifications:
International (ipc 8-9): E04G25/06 (Advanced/Invention); E04G25/00 (Core/Invention)
International (ipc 1-7): E04G25/06
CPC: E04G25/061 E04G25/063 E04G25/065 E04G25/06
European: E04G25/06



Family:

Publication number	Publication date	Application number	Application date
CH272183 A	19501215		19490610

Priority:

19490610

Probable Assignee:

SIEGRIST ROBERT

Assignee(s): (std):

SIEGRIST ROBERT

Inventor(s): (std):

ROBERT SIEGRIST

Inventor(s):

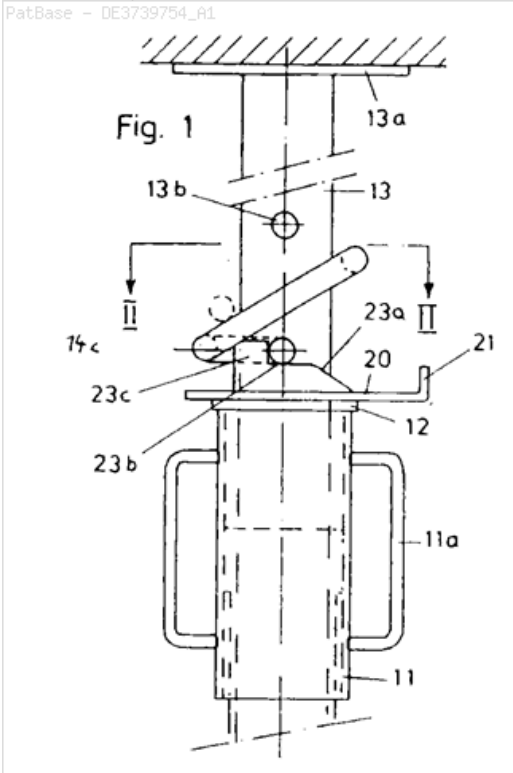
SIEGRIST ROBERT

Title: Höhenverstellbare Stuetze fuer eine Deckenschalung

Abstract: Source: DE3739754C2 [DE] Der durch das obere Rohr (13) gesteckte Bolzen (14a) stuetzt sich in tragender Stellung auf zwei Stuetzflaechen (23b) ab, die sich ueber einer verschiebbaren Platte (20) befinden. Durch Verschieben der Platte faellt der Steckbolzen auf die Platte herunter, wodurch sich die Stuetze loest. Das Verschieben der Platte ist aber durch eine Sperre verhindert, in Gestalt eines geraden Abschnitts (14c) des Steckbolzens, der neben zwei Nocken (23c) liegt. Erst wenn der Riegel (14c) etwas hoch geschwenkt wird, so dacc die Nocken frei werden, kann die Platte verschoben werden.

Classifications:

International (IPC 8-9): E04G11/48 E04G25/04
E04G25/06 (Advanced/Invention);
E04G11/00 E04G25/00 (Core/Invention)
International (IPC 1-7): E04G11/48 E04G25/04
CPC: E04G25/061 E04G25/063 E04G25/065 E04G25/066
E04G25/068 E04G11/48 E04G25/04 E04G25/06
European: E04G11/48 E04G25/04 E04G25/06



Family:

Publication number	Publication date	Application number	Application date
DE3739754 A1	19890608	DE19873739754	19871124
DE3739754 C2	19900503	DE19873739754	19871124

Priority:

DE19873739754 19871124

Probable Assignee: MUELLER AND BAUM

Assignee(s): (std): MUELLER AND BAUM

Assignee(s): MUELLER AND BAUM GMBH AND CO 5768 SUNDERN DE KG ; MUELLER AND BAUM GMBH AND CO KG ; MUELLER AND BAUM GMBH AND CO KG 5768 SUNDERN DE

Inventor(s): (std): BAUM SIEGMAR ; MUELLER WILHELM

Inventor(s): BAUM SIEGMAR 5768 SUNDERN DE