

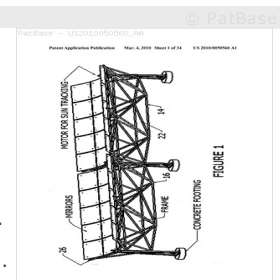
1) Family number: 44451687 (US2010050560A)

SOLAR TROUGH FRAME, PART AND METHOD

Abstract: Source: US2010050560A A solar trough frame for holding solar mirrors includes a plurality of chords. The frame includes a plurality of extruded profiles, including chords, chord sleeves, struts, strut end pieces and mirror support pieces, each chord sleeve having at least one chord sleeve fin, each chord sleeve positioned about one of the chords. The frame includes a plurality of struts, at least one of the struts having a strut end piece having at least one strut fin that connects with a chord sleeve fin to connect the plurality of chords. The frame includes a platform supported by the chords and struts on which the solar mirrors are disposed. A chord sleeve for connecting a chord of a solar frame which supports solar mirrors to a strut end piece extending from a strut of the solar frame. A strut end piece for connecting the strut of a solar frame which supports solar mirrors to a chord sleeve of the solar frame. A method for linking a strut of a solar frame which supports solar mirrors to a chord of the solar frame. A method for supporting solar mirrors.

Probable Assignee: WERNER EXTRUSION SOLUTIONS LLC

Earliest Publication Date: 20100304



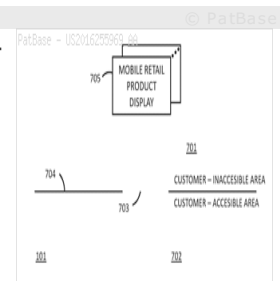
2) Family number: 63468628 (US2016255969A)

SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS PERTAINING TO MOVEMENT OF A MOBILE RETAIL PRODUCT DISPLAY

Abstract: Source: US2016255969A A motorized transport unit is configured to temporarily attach to a mobile retail product display and a central computer system is configured to task that motorized transport unit to move such a mobile retail product display. This movement can be from a customer-inaccessible area to a customer-accessible area and/or vice versa. The mobile retail product displays can include refrigerated-product displays and heated-product displays. By one approach such tasking is based, at least in part, upon detecting one or more predetermined states such as a predetermined temporal state, a detected customer demographic, local weather conditions, and/or a societal observation.

Probable Assignee: WALMART APOLLO LLC

Earliest Publication Date: 20160908



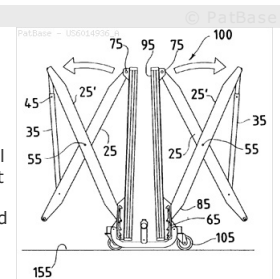
3) Family number: 11995139 (US6014936A)

VARIABLE HEIGHT FOLD AND ROLL STAGING AND METHOD OF ASSEMBLING SAME

Abstract: Source: US6014936A A variable height staging for forming a staging surface for presentations or performances by orators, singers, dancers, actors and others who may appear on a stage. The staging of the invention can be assembled to form staging surfaces of variable height. The variable staging can be assembled to form staging surfaces of more than three different heights. The variable staging includes at least one platform panel and a cross brace member having at least one caster attached thereto. A slot and groove assembly comprised of at least one plate, a slot or track and at least one groove for engaging a cross pin is pivotally attached to the cross brace member. The variable staging further includes at least two cross legs; one of the cross legs has a support end and a pivot end attached to the bottom surface of the platform panel and the other cross leg has a support end and a locking end that is engaged by the slot and groove assembly. The cross legs are attached to each other at a center point. The cross legs may be further connected together by a telescoping arm connected between them. The relationship between the cross legs about their center point determines the height of the variable staging. The disclosure is further directed to a method of assembling the variable staging.

Probable Assignee: STAGERIGHT CORP

Earliest Publication Date: 19990130



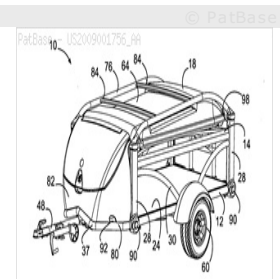
4) Family number: 42769786 (US2009001756A)

RECONFIGURABLE TRAVEL TRAILER

Abstract: Source: US2009001756A A travel trailer is provided. The travel trailer may include first and second bed platforms. The platforms are capable of being positioned in a travel configuration for use during transport of the travel trailer. A camping pod is included that has tent fabric. The camping pod is capable of being positioned in a travel configuration in which the camping pod is located above the first bed platform and the second bed platform when the platforms are positioned in the travel configuration. Also, the first bed platform and second bed platform are capable of being positioned in a camping configuration for use when the tent fabric is positioned to form a tent.

Probable Assignee: SYLVANSPORT LLC

Earliest Publication Date: 20090101



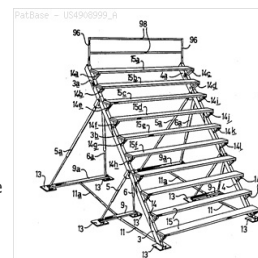
5) Family number: 15334993 (US4908999A)

STAGING

Abstract: Source: US4908999A Staging particularly for use in group photography comprises spaced support assemblies 1, 2. Each support assembly comprises a rearwardly inclined truss member 3, 4 supported by a respective pair of legs 5, 6 arranged in an inverted-V configuration. Each truss carries a series of support brackets 14 to which decking members 15 are connected for pivotal movement in vertical and horizontal planes enabling the support assemblies to adopt different attitudes. The feet of the legs 5, 6 and the lower ends of the trusses swivellably stand on ground plates 13. The lower ends of the legs 5, 6 are pivotally coupled to a bracing bar 9 and their upper ends are pivoted together enabling the legs to be adjusted in length for coarse levelling of the support assemblies. A tie rod 11 joins the bracing bar 9 to the lower end of the respective truss 3, 4. The upper ends of the legs are releasably coupled to the respective truss, and extension sections 3a, 4a are provided for connection to the upper ends of the trusses to support further decking members.

Probable Assignee: BJ HARRIS OXFORD A CO OF ENGLAND LTD

Earliest Publication Date: 19881114



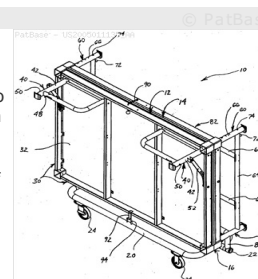
6) Family number: 31481668 (US2005011135A)

VARIABLE HEIGHT FOLD AND ROLL STAGING AND METHOD OF ASSEMBLING SAME

Abstract: Source: US2005011135A A portable staging assembly having a first platform panel pivotally connected to a second platform panel with the second platform panel further being pivotally connected to a base assembly. When the first and second platform panels are in a position for use substantially parallel to a ground surface, the second platform panel is supported by a plurality of ground engaging supports and the first platform panel is supported by at least one ground engaging support and by the second platform panel. The invention further provides a method of assembling the portable staging assembly.

Probable Assignee: STAGERIGHT CORP

Earliest Publication Date: 20050120



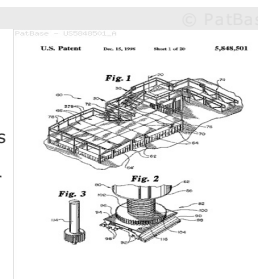
7) Family number: 12467366 (US5848501A)

MODULAR PORTABLE SYSTEM

Abstract: Source: US5848501A A modular portable stage and floor system uses a small number of standardized modular components to construct a temporary or permanent platform that is easily adaptable to a wide variety of platform designs. The modular standardized components include a series of modular vertical and horizontal supports and a light-weight modular deck panel. The modular vertical and horizontal supports can be detachably coupled together in a slidably interlocked manner using a universal connector mechanism in to a support frame structure for supporting a plurality of modular deck panels. By using a small number of modular supports and a universal connector mechanism that is similar for all structural interconnections required to build the support frame structure, the modular portable stage and floor system is strong and stable, yet easily transported, assembled and disassembled.

Probable Assignee: WENGER CORP

Earliest Publication Date: 19940201



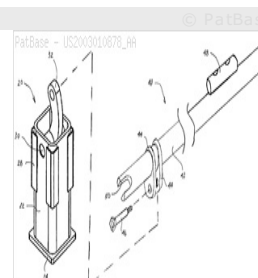
8) Family number: 28430557 (US2003010878A)

EXTENDIBLE LEG DEVICE

Abstract: Source: US2003010878A An extendible leg device for use in supporting a portion of a platform assembly above a floor surface. The extendible leg device has a leg tube that slidably receives a foot tube which is moved relative to the leg tube via selective rotation of an axle. The axle has a first link pivotally connected to a first end of a second link which second link is further pivotally connected at its second end to the foot tube.

Probable Assignee: STAGERIGHT CORP

Earliest Publication Date: 20030116



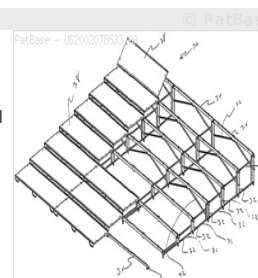
9) Family number: 28221922 (US2002078633A)

AUDIENCE SEATING SYSTEM

Abstract: Source: US2002078633A An audience system of the present invention takes a modular approach to creating a wide variety of seating options. The system utilizes a variety of standardized parts that can be assembled in a flexible variety of configurations. The system generally utilizes a plurality of columns, trusses, end frames, and platforms. The major parts of the system are assembled and secured together by readily removable pins to create a flexible and secure seating system. A large part of the system is held together by gravity further simplifying installation and disassembly. By varying the size of the components, the rise and run of the system may be adjusted as desired.

Probable Assignee: WENGER CORP

Earliest Publication Date: 20020419



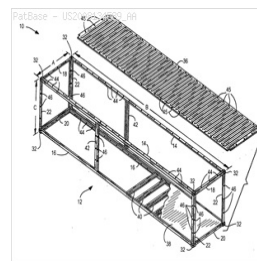
10) Family number: 41574757 (US2008134589A)

SYSTEM FOR MODULAR BUILDING CONSTRUCTION

Abstract: Source: US2008134589A Construction systems for erecting building structures comprise a plurality of prefabricated interconnectable modular building units, each unit not meeting at least one of the ISO certification criteria for transport of cargo but each unit comprising a frame shaped as a rectangular parallelepiped and comprised of framing members and a plurality of nodes, each node situated at a corner of said frame for selective interconnection with other units, the nodes and the exterior dimensions of the frame conforming to ISO shipping standards such that each unit is transportable using the ISO intermodal transportation system, and such that when the units are aggregated horizontally and vertically and adjacent units are interconnected, a building structure comprising at least one habitable space is formed. The modular units are assembled in a factory remote from the job site, and are there constructed to a semi-finished state, including installation of one or more of interior fit-out systems and finishes, exterior envelope systems, plumbing systems, electrical systems, environmental systems, and fire protection systems, following which the semi-finished modular units are transported from the factory to the job site, where they are craned into place and secured to form the structure being erected, a plurality of adjacent pairs of semi-finished modular units also being "stitched" together, and the semi-finished modular units are thereafter constructed to a finished state.

Probable Assignee: GLOBAL BUILDING MODULES INC

Earliest Publication Date: 20080306



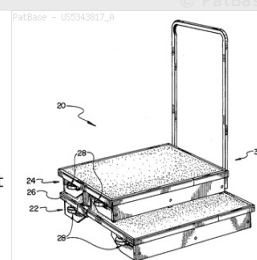
11) Family number: 11139420 (US5343817A)

PORTABLE PODIUM AND PERFORMANCE PLATFORM SYSTEM

Abstract: Source: US5343817A A portable podium and performance platform system includes one or more platform sections that may be assembled together to provide one or more relatively small elevated surfaces having a horizontal orientation on which an individual or small group of individuals may stand or be seated so as to enhance communication and visibility. At least one of the platform sections includes an integral transport assembly for transporting the platform sections in a vertical orientation. The transport assembly comprises two or more wheels which are mounted on an axis of rotation that is transverse to the platform surface and positioned to allow at least an arcuate section of the wheels to extend beyond a peripheral edge of the platform surface. The podium and performance platform system may be transported to a desired location by tipping the platform sections into the vertical orientation and up onto the arcuate section of the wheels of the transport assembly, rolling the platform sections to the desired location, and then tipping the platform sections back down into the horizontal orientation.

Probable Assignee: WENGER CORP

Earliest Publication Date: 19930508



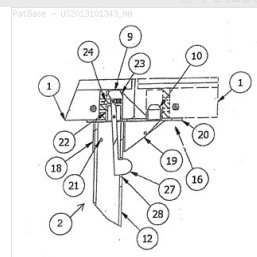
12) Family number: 53538081 (US2013101343A)

STAGING ASSEMBLY

Abstract: Source: US2013101343A An assembly comprises a corner block piece and a locating plate. The corner block piece has a node receiving cavity which includes an aperture configured to receive a locking pin. The locating plate includes at least one locking node. The locking node includes a spring-loaded locking pin configured to engage the aperture when the locking node is inserted in the node receiving cavity. The assembly facilitates construction of a portable staging system involving a platform, at least two support legs, and bracing.

Probable Assignee: TREX COMMERCIAL PRODUCTS INC

Earliest Publication Date: 20130425



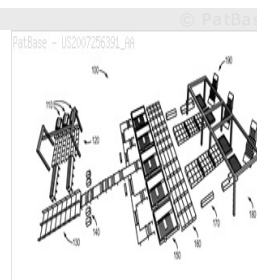
13) Family number: 40747294 (US2007256391A)

FRAMING TABLE FOR BUILDING PANEL ASSEMBLY

Abstract: Source: US2007256391A The disclosed technology enables manufacturers to efficiently design and manufacture structural wall panels, floor panels and roof panels from cold-formed steel for use in residential and commercial construction. The panels are individual components that can be installed at a building site to form a structure that includes walls, floor and a roof. Structures may be manufactured in a manufacturing facility and delivered to a construction site for installation.

Probable Assignee: GENESISTP INC

Earliest Publication Date: 20071025



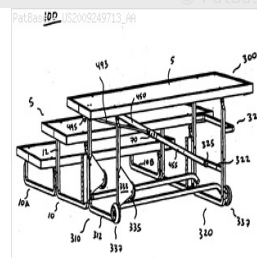
14) Family number: 43365451 (US2009249713A)

PORTABLE RISER APPARATUS HAVING A LIFTING AND LOCKING ASSEMBLY

Abstract: Source: US2009249713A There is provided a portable riser having an operator actuated lifting assist assembly operatively coupled to a riser deck. In one aspect, there is a first pivot mechanism coupled to a first support leg and adapted to initiate upward movement of the portable riser from a collapsed position when a downward force is applied to the first support leg, and a second pivot mechanism coupled to a second support leg and adapted to continue the upward movement. The lifting assist assembly provides a lifting force that continues upward movement to an upright position where the portable riser is locked. There is included a riser unlocking means for unlocking the lifting assist assembly. The portable riser remains in the upright position until the riser unlocking means is operated and a collapsing force is applied to the portable riser sufficient to overcome the lifting force and enable collapsed of the portable riser.

Probable Assignee: NUDO PRODUCTS INC

Earliest Publication Date: 20090616



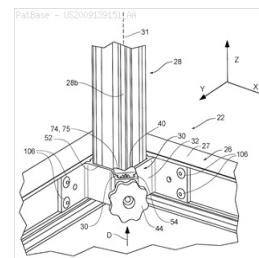
15) Family number: 43348725 (US2009139151A)

PORTABLE STAGING AND LEG BRACKET THEREFOR

Abstract: Source: US2009139151A A portable staging system adjustable for quick assembly and disassembly and inherent sturdiness. The portable staging system includes a bracket assembly for detachably coupling a support member to the platform of the portable stage. The bracket assembly includes a bracket sleeve adapted to receive the support member, a brace member shiftable within the bracket sleeve between a support member engaging position and a support member clearing position, and an actuator assembly for simultaneously shift first and second drivers of the brace member.

Probable Assignee: WENGER CORP

Earliest Publication Date: 20090529



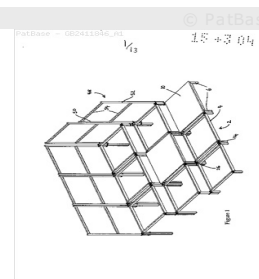
16) Family number: 30577002 (GB2411846A)

MODULAR STAGING UNITS

Abstract: Source: GB2411846A A modular staging unit that can be used to construct a stage or seating platform comprises a number of base units 2 secured together using securing brackets 14. A stage board (10, Figure 1) is placed on top of each of the base units 2 to form a flat planar surface. Handrails (48 Figure 1) are secured around the periphery of the stage or seating platform for safety purposes. The base units 2 can be of different heights or they can be stacked one on top of another to provide a stepped arrangement. Each base unit 2 has a frame 4 and four legs 6. A vertical slot is provided in an upper part of each of the legs 6 for receiving an engaging part 18 of the securing bracket 14.

Probable Assignee: UNISTAGE LTD

Earliest Publication Date: 20050914



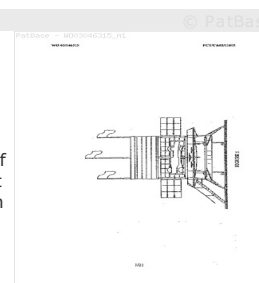
17) Family number: 28617561 (WO03046315A1)

PORTABLE MODULAR STAGE SYSTEM

Abstract: The present invention provides a portable modular stage system that when in a compact state can be transported by a number of different transportation modes. Upon arrival at a predetermined deployment site the modules are interconnected thereby forming the completed stage system which incorporates multimedia capabilities. The system comprises at least two modules each having a structural framing system and at least one of these modules having a platform connected to its structural framing system. Each module is capable of independent movement to and from a deployment site through the use of wheel units that are integrated into the framing system of each module. In addition, each module has a portion of a coupling system integrated into the framing system.

Probable Assignee: PROFILE PROJEX INTERNAT INC

Earliest Publication Date: 20030605



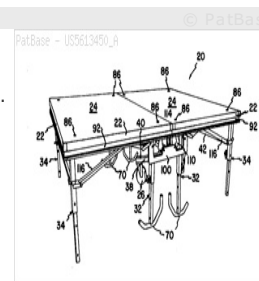
18) Family number: 12260743 (US5613450A)

MOBILE FOLDING STAGE

Abstract: Source: US5613450A A folding stage (20) includes a folding framework (22) supporting stage decks (24). The stage is supported on a caster frame (38) including casters (26) for moving the stage from location to location in a folded position. Inner legs (32) and outer legs (34) support the stage in the unfolded position and fold against decks (24) in the storage position. A folding linkage (30) directs and controls folding between a use position and a folded storage position.

Probable Assignee: SICO INC

Earliest Publication Date: 19960523



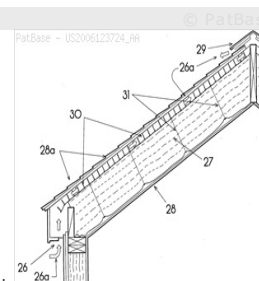
19) Family number: 33211908 (US2006123724A)

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

Abstract: Source: US2006123724A 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.

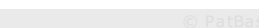
Probable Assignee: HETTRICH HANSL LLC

Earliest Publication Date: 20060615



20) Family number: 47906341 (US2012110928A)

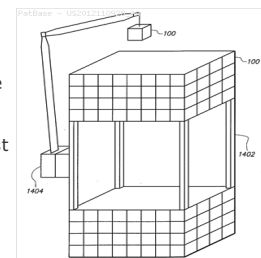
MODULAR BUILDING SYSTEM FOR CONSTRUCTING MULTI-STORY BUILDINGS



Abstract: Source: US2012110928A A modular building system for constructing a multi-story building includes pre-fabricated modular units. Each modular unit includes a horizontal slab for forming a floor/ceiling of the building, a joist extending horizontally along a first edge of the slab, the joist extending below the slab and extending horizontally beyond the first edge of the slab to form a receiving lip, columns positioned on top of the slab along the first edge, and connectors installed in cavities formed in the unit. A floor of the multi-story building is formed by arranging the modular units so that the slab of a first modular unit is positioned on the receiving lip of a second modular unit. An additional floor of the multi-story building is formed by arranging the modular units so that the joist portion of an upper modular unit is positioned on the columns of a lower modular unit.

Probable Assignee: LIBERMAN BARNET L

Earliest Publication Date: 20101229



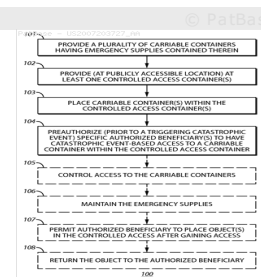
21) Family number: 40797636 (US2007203727A)

EMERGENCY SUPPLIES PRE-POSITIONING AND ACCESS CONTROL METHOD

Abstract: Source: US2007203727A One provides (101) a plurality of carriable containers having emergency supplies contained therein wherein each of these carriable containers is readily carriable by an average adult human. These carriable containers are then placed (103) within one or more corresponding controlled access containers as are provided at one or more publicly accessible locations (102). Prior to a triggering catastrophic event, one or more specific authorized beneficiaries are then preauthorized (104) to have catastrophic event-based access to one or more of these carriable containers. So configured, the authorized beneficiary(s) will in turn have access to the corresponding emergency supplies that are contained within the carriable container when a triggering catastrophic event occurs.

Probable Assignee: SOVEREIGN DEED LLC

Earliest Publication Date: 20070830



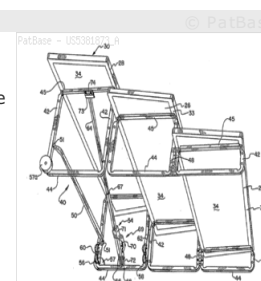
22) Family number: 11766718 (US5381873A)

PORTABLE RISER UNIT WITH A TELESCOPIC BRACE

Abstract: Source: US5381873A A portable stepped riser unit for supporting persons or items above a floor, a stage or the like is provided. The riser unit is foldable for transport and storage. It includes a generally tubular support frame, a plurality of platforms for forming the steps removably mounted on the support frame, and a lockable telescoping brace assembly associated with the support frame. The brace assembly includes a foot operated lock, whereby a single operator may fold, move and erect the riser unit.

Probable Assignee: WENGER CORP

Earliest Publication Date: 19930722



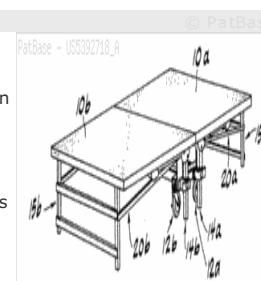
23) Family number: 11797149 (US5392718A)

WHEEL LIFTING ASSEMBLY FOR MOBILE FOLDING STAGE UNIT

Abstract: Source: US5392718A A mobile folding stage unit has right and left platform sections pivotably mounted in side-by-side relation to a frame, corresponding sets of roller wheels mounted to the frame, pivot brackets mounted to the bottom of the platform sections, support brackets mounted to the frame to which the platform sections are pivotably mounted via the pivot brackets, and pivot legs pivotably mounted to an eccentric position on the corresponding pivot brackets and slidable in pivotable bearing guides mounted to the frame adjacent the corresponding roller wheels. When the platform sections are folded to the vertical position for storage, the pivot legs are lifted above the wheels, and when they are opened to the horizontal position for use, the pivot legs are lowered to lift the wheels out of contact with the ground. Other features include outboard legs with telescoping leg sections, inner extension legs, stabilizer bars which have an over-center locking function for storage, and an improved construction for the bearing guides.

Probable Assignee: KING ARTHUR CO DIV OF SHELBY W

Earliest Publication Date: 19950228



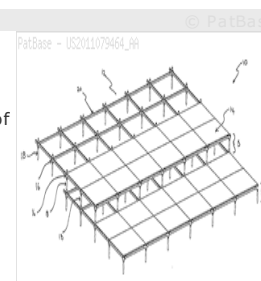
24) Family number: 44119905 (US2011079464A)

MODULAR STAGE ASSEMBLY

Abstract: Source: US2011079464A A platform assembly (10) is provided having a framework (12) comprising: a plurality of connector nodes (16), each of which has a single leg (18) extending downwards therefrom. A plurality of frame bars (20) extend between the connector nodes (16) and connect thereto by frame ends attached to either end of each frame bar (20). A plurality of platform boards (14) are supported on said framework (12). The platform assembly (10) may have a number of layers (A, B) of framework interconnected to one another in a vertical orientation through the connector nodes (16) and legs (18).

Probable Assignee: PHILLIPS SHAUN M

Earliest Publication Date: 20110406



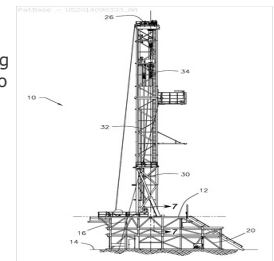
25) Family number: 56138088 (US2014090333A)

MAST ASSEMBLY WITH CYLINDER NESTED IN SUBSTRUCTURE

Abstract: Source: US2014090333A A method to disassemble a mast assembly having a substructure including a first and second section, a first and a second cylinder, and a lower mast section. The method includes the steps of disengaging a pair of front mast legs of the lower mast section from a pair of front leg supports. The pair of front leg supports are moved from an operational to a transport position. The lower mast section is lowered from a vertical to a horizontal position by retracting the first cylinder and the second cylinder. A mast center spreader is thereafter removed from the lower mast section. A center drill floor section is removed from between the first substructure section and the second substructure section so that a combination of the first substructure section, the first cylinder and a portion of the lower mast and a combination of the second substructure section, the second cylinder and a portion of the lower mast may be transported.

Probable Assignee: WOOLSLAYER COMPANIES INC

Earliest Publication Date: 20140401



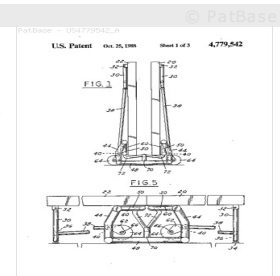
26) Family number: 3022387 (US4779542A)

FOLD AND ROLL STAGING

Abstract: Source: US4779542A A portable and foldable platform stage assembly has two support panels movable from a collapsed position with panels closely adjacent each other to an operative position with the panels in a single plane, the inner edges in substantial contact. Roller wheels move from a storage position when the panels are in operative position to a floor contacting position when the panels are collapsed for storage or movement. Outer legs move from a storage position to a vertical operative position when the panels are shifted to operative position. A central support frame pivotally supports the inner edges of the platform panels in the two positions with shaped spaced support links which provide positive support in the operative position and adapt to a receiving position when the panels are moved to storage positions.

Probable Assignee: STAGERIGHT CORP

Earliest Publication Date: 19881025



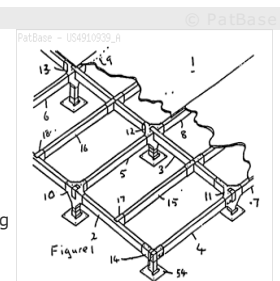
27) Family number: 2080815 (US4910939A)

CONSTRUCTION SYSTEM

Abstract: Source: US4910939A PCT No. PCT/GB86/00768 Sec. 371 Date Aug. 27, 1987 Sec. 102(e) Date Aug. 27, 1987 PCT Filed Dec. 16, 1986 PCT Pub. No. WO87/03634 PCT Pub. Date Jun. 18, 1987.A system for constructing staging or the like comprising beams 2,3,4,5,6 etc. (e.g. timbers) and socket elements 10,11,12,13, etc., with screws or the like to secure the beams to the socket elements. The socket elements each comprise at least three interconnected box sections for slidably receiving the beams, the box sections being open at both ends and arranged such that a first of the beams can pass through a selected one of the box sections, while at least one further beam can pass through further box sections and abut the first beam. The system generally supports cladding sheets 1, for example, for stage flooring.

Probable Assignee: CAVANAGH S

Earliest Publication Date: 19870618



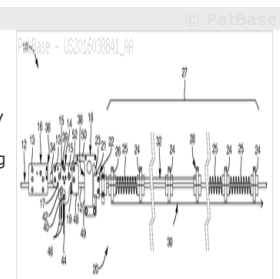
28) Family number: 61642648 (US2016038841A)

TERMINAL-RECOIL-ATTENUATION SYSTEM AND METHOD

Abstract: Source: US2016038841A A cable in suspension (clear span) supports a trolley. At the upper end, a launch block fixed to the cable registers the trolley in all directions, including a safety release link holding the trolley near the launch block. After release and descent with a rider, the trolley strikes an attenuator of distributed springs and spacers. The spring stack absorbs momentum from the trolley, but a leash limits recoil "bounce" after reversing the trolley. A second, recoil, leash resists recoil by capturing a subset of the springs between respective ends of itself and the first leash. The doubly leashed trolley will oscillate to a stop in an equilibrium position.

Probable Assignee: ZIPHOLDINGS LLC

Earliest Publication Date: 20160211



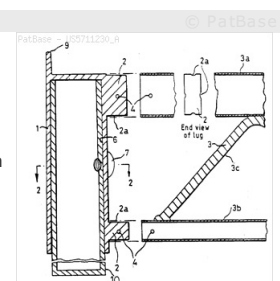
29) Family number: 8442100 (US5711230A)

PLATFORM SYSTEM

Abstract: Source: US5711230A PCT No. PCT/GB93/02489 Sec. 371 Date Jul. 24, 1995 Sec. 102(e) Date Jul. 24, 1995 PCT Filed Dec. 3, 1993 PCT Pub. No. WO94/13907 PCT Pub. Date Jun. 23, 1994A platform system including at least one unit comprising a substantially flat platform. Each of the units has hollow corner posts from which supporting legs extend downwardly. Each of the corner posts includes at least one lug integrally cast or molded with the corner post. The lug extending from the corner post provides connection of the corner post to a side frame which supports the platform above. The provision of the lugs on the corner post provide for the assembly of the platform system in a secure manner at the site of the platform system.

Probable Assignee: LEVEL SERVICES LTD

Earliest Publication Date: 19940608



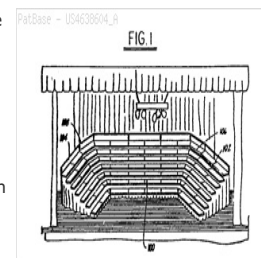
30) Family number: 2802517 (US4638604A)

STAGING STRUCTURE

Abstract: Source: US4638604A A stage system and apparatus for construction of flat stages, choral risers, and the like which utilizes a basic structural flat rectangular panel module with an edge of extruded material having a re-entrant groove on the outer surface and upper and lower sockets on each side of each corner of the panel to receive support legs fashioned to be received in the bottom sockets. Railing stanchions are provided to seat in the top sockets. In the vertically spaced and overlapping choral risers, the top sockets serve to locate the overlap and mechanically lock the panels in an overlap position. Inserts received in the re-entrant groove interengage with the re-entrant groove of an adjacent panel to provide lateral and vertical stability to adjacent panels. Special leg brackets are provided to engage the bottom sockets of two to four adjacent module panels to provide vertical support and lateral retention. Leg assemblies can be formed as a folding frame to facilitate shipping and storage. An interlock is provided between legs and sockets. Cable stabilization is provided with a cam tightening unit. A railing structure is provided to be supported in upper sockets and arranged for horizontal or angled railings. Step units are provided to interlock with the re-entrant grooves of the panel edges. Velcro clips are also received in the panel grooves to support skirt curtains. A special roller accessory also mounts in the panel grooves to facilitate moving of the panels.

Probable Assignee: STAGERIGHT CORP

Earliest Publication Date: 19851113



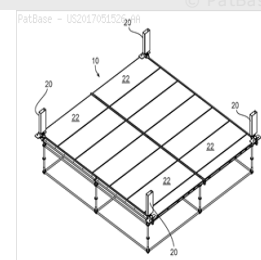
31) Family number: 64975951 (US2017051526A)

ENGINEERED FLOOR AND SCAFFOLD SYSTEMS

Abstract: Source: US2017051526A This unique modular flooring system with system scaffold understructure is an engineered system capable of use with most tent manufacturer's options. The engineered floor is for engineered clear span tents. This unique system transfers the load of the tent, tent frame, scaffold system and floor understructure to the ground through the tent leg. The system is configured so that the stage flooring section does not support the tent, tent frame, tent poles and scaffold system.

Probable Assignee: BILJAX INC

Earliest Publication Date: 20170223



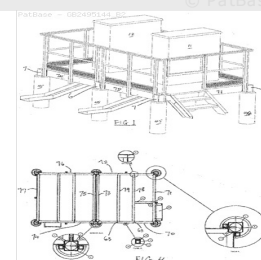
32) Family number: 50112966 (GB201116922A)

PLATFORM ASSEMBLY

Abstract: Source: GB201116922A The platform assembly comprises a number of load bearing members 71, 70, 74, a number of corner connecting assemblies 7 adapted to connect two load bearing members together at the corner of the platform, a number of flooring sections, number of fixing means adapted to fix the corner assemblies to a pad or pile. The corner assemblies also include a rotatable washer 8 incorporating a slot or elongate aperture, to allow adjustment of the fixing means within the corner assembly. The corner assemblies may be constructed from two parts which connect together to form a unit and may also incorporate outwardly extending flanges which are secured to the load bearing members. The platform assembly may also have intermediate assemblies 6 which are used to connect two load bearing beams together between the corners of the platform. Also claimed are a corner assembly and an intermediate assembly each incorporating a cylinder and a number of flanges for attaching to load bearing members.

Probable Assignee: LLECSYS LTD

Earliest Publication Date: 20130403



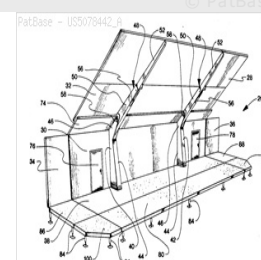
33) Family number: 24046320 (US5078442A)

PORTABLE PERFORMANCE PLATFORM

Abstract: Source: US5078442A A portable performance platform for the performing arts is disclosed that, in the stowed configuration, can be transported along roads and highways, and, in its unfolded configuration, presents an extended performing area having an overhead canopy. The platform includes a chassis mounted on ground engaging wheels. A pair of spaced apart, upright standards are positioned along one side margin of the chassis. Each standard includes an articulated arm that can be shifted between a stowed position (for transport of the platform) and an extended position (when the platform is set up for a performance). The articulated arm includes two arm members, and panels are fixedly carried by each of the arm members. In the stowed position, the panels make up a top wall and a sidewall of a staging compartment, and, when the arms are in the extended position, the panels provide a canopy over the performing area.

Probable Assignee: WENGER CORP

Earliest Publication Date: 19911201



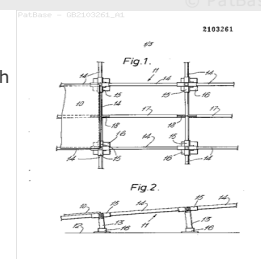
34) Family number: 2015199 (GB2103261A)

STAGE

Abstract: Source: GB2103261A A staging system comprises platform members (10) and various components which can be assembled together to form a legged supporting framework bed (11) on which the platform members (10) rest. These components include metal socket fittings (15) and base plates (16) of standardised design independent of the form of a stage to be built, and wooden support elements (14) and legs (13) the lengths of which determine the size, height and slope of a stage.

Probable Assignee: CAVANAGH SEAN

Earliest Publication Date: 19830216



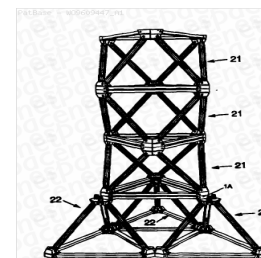
35) Family number: 14733710 (WO9609447A1)

MODULAR SPACE FRAME

Abstract: A modular structural system is used in constructing tetra/octahedral space frames, scaffolded platforms, and columnar truss elements. The system is comprised of triangular (1), tripodal (5), and hexapodal (23) elements that are assembled to form tetrahedral (22) and octahedral (21) modules that are then nested, stacked, and connected together to form various types of static structures.

Probable Assignee: IVERSON JEFFREY B

Earliest Publication Date: 19960328



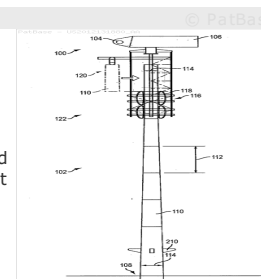
36) Family number: 48463396 (US2012131880A)

METHOD AND APPARATUS FOR WIND TURBINE ERECTION

Abstract: Source: US2012131880A A wind turbine system erection apparatus may include a body portion having a window, a section handler secured to the body portion and extending through the window, the section handler adapted to pick, lift, axis-align, and set a mast section, and a movement mechanism secured to the body portion, the movement mechanism adapted to moveably reposition the body portion along the length of the mast of the wind turbine system. A method is also disclosed and may include positioning an erection apparatus near a base of a mast of the wind turbine system, the positioning including locating the erection apparatus substantially concentrically with the mast. The method may also include picking a mast section from near the base of the system with the erection apparatus, lifting the mast section along the length of the mast, and translating the mast section into the erection apparatus and into alignment with the mast.

Probable Assignee: NATIONAL OILWELL VARCO LP

Earliest Publication Date: 20110317



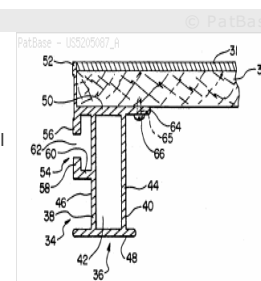
37) Family number: 11132900 (US5205087A)

PORTABLE STAGING PLATFORM

Abstract: Source: US5205087A A portable, reconfigurable staging platform is provided and includes a plurality of individual panel assemblies, a plurality of support legs coupled to the panels, and a plurality of connectors for detachably coupling selected individual panels to one another in a desired configuration. Each of the individual panel assemblies includes a central panel region with a peripheral edge overlaid by a panel frame. The support legs are operably coupled to the frame and the frame includes a connector receiving feature for slidably, releasably receiving the connectors so that selected adjacent panels may be joined to each other.

Probable Assignee: JINES MICHAEL D

Earliest Publication Date: 19930427



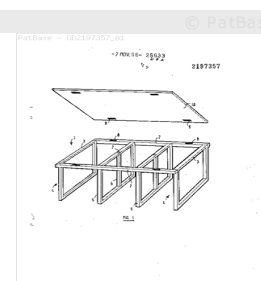
38) Family number: 2192041 (GB2197357A)

STAGING COMPRISING FRAMING PARTLY NESTABLE WITHIN A SIMILAR FRAME

Abstract: Source: GB2197357A A frame is provided for supporting staging. The frame comprises two parallel spaced apart aligned elongate side members 2, with two end leg assemblies 3 being provided adjacent the ends of the side members. The dimension of at least one end leg assembly in a direction transverse to the axis of parallelism of the side members is less than the distance between the parallel side members. Thus a plurality of the support frames may be readily stacked, in a manner in which one frame is partly nestable within another (Fig. 6). Each support frame is provided with means for releasably mounting a platform member on the support frame.

Probable Assignee: DODSON GORDON B

Earliest Publication Date: 19880518



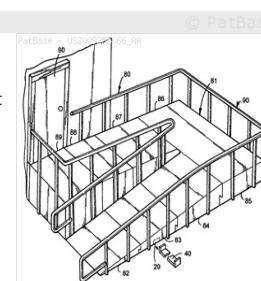
39) Family number: 43835757 (US2009255066A)

REARRANGEABLE INTERCONNECTABLE SYSTEM FOR HANDICAP RAMP AND PLATFORMS

Abstract: Source: US2009255066A A series of interconnectable foam-block ramps and platforms are provided that are cut from low density EPS foam but coated with durable exterior polyurea coating, and that include optional hard surfaces, and edge-and-corner treatments, and railing with hand grips. The components resist deformation and withstand extreme weather conditions, but are surprisingly lightweight and include integral hook connectors that securely engage. They can be easily assembled/installed to form a handicap ramp and/or arranged to form novel "terrains" for wheeled devices and/or arranged to form stages and platforms. The components are sufficiently durable to support high-stress wheeled devices such as a wheelchairs, trick bikes, skateboards, in-line skates and the like. A variety of optional components include a curb-simulating element, intersection-forming platforms, X-intersection connectors, double-decker platforms, steps, and railings.

Probable Assignee: FEATHERBLOCK DESIGN LLC

Earliest Publication Date: 20091015



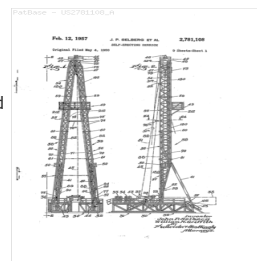
40) Family number: 22655349 (US2781108A)

SELF-ERECTING DERRICK

Abstract: Source: US2781108A 1. In a selferecting derrick: a. tower pivoted at its base for movement to an erect position; two unitary and structurally independent lifting members movable simultaneously longitudinally of said tower along predetermined paths to move said tower to said erect position; a pair of latches at the ends of said paths for engaging and holding said members and including locking projections movable past rectangular apertures in latch base plates and auto-operated releasable means for holding said locking projections in latching position; and a manually operable supplementary safety lock comprising a pair of rectangular wedges for insertion into said apertures to hold said projections against movement past said apertures, said Wedges each having a longitudinal bore therethrough, an operating shaft extending through said bores, cooperating screw threads on said shaft and in the bore of at least one of said wedges for producing relative axial movement of said wedges upon rotation of said shaft relative to said wedge, said screw threads having a length sufficient to move said wedges from an initial position in which the distance between the outer ends of said wedges is substantially less than the distance between said apertures to a locked position in which said wedges are separated a distance sufficient to lock said Wedges in said aper_t; tures. _ IS

Probable Assignee: DRESSER EQUIPMENT CO

Earliest Publication Date: 19570212



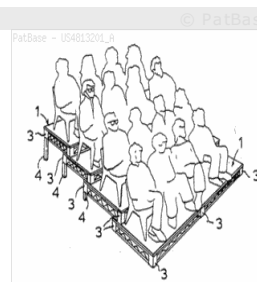
41) Family number: 2899799 (US4813201A)

PLATFORM SYSTEM

Abstract: Source: US4813201A A platform system, in particular for providing staging, which consists of a number of platform units each of which comprises a flat platform having on the underside thereof hollow posts of square cross-section for receiving tubular legs of circular cross-section for supporting the platform. The legs of the respective platform units may be different heights to give a variable height system. Also the legs may be suitably bent to provide a raked platform.

Probable Assignee: STEELDECK IND

Earliest Publication Date: 19890321



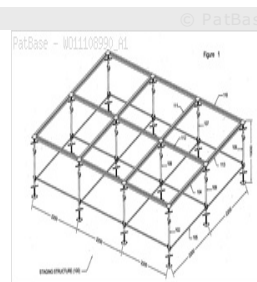
42) Family number: 49556597 (WO11108990A1)

METHOD AND STAGING SYSTEM FOR CONSTRUCTING A FLOATING COVER FOR A STORAGE TANK

Abstract: A method for constructing a floating cover for a storage tank, and a staging system for constructing a floating cover for a storage tank. The staging system comprises a plurality of vertical support legs; a network of bearer beams, each bearer beam configured for releasable connection to two of the support legs; and configured for selectively removing one or more of the bearer beams to provide access to one or more joint lines between adjacent panels for welding and/or laminating processing.

Probable Assignee: SEOW KAI CHYE STEPHEN

Earliest Publication Date: 20110909



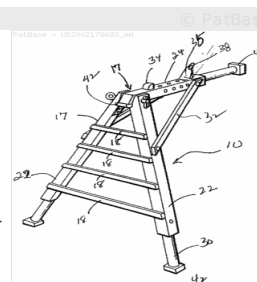
43) Family number: 28323991 (US2002178683A)

FLAT FOLDING SCAFFOLD SYSTEM WITH SHRUBBERY SHELTER

Abstract: Source: US2002178683A An a-frame tripod truss for a scaffold for mounting a platform adjacent a structure having tripod metallic frame segments and removable cross bracing providing a stand-alone, three point support with two ground supports and one wall support, each having extension devices for providing a stable footing on uneven surface. The tripod trusses provide a flat-folding scaffold, with hinged, pivoting connections that permit collapsing the unit, in combination with a shrubbery shelter and staging platform. This flat-folding scaffold, with hinged, pivoting connections that permit collapsing the unit, in combination with shrubbery shelter comprising a plywood member used as a shelter for outdoor plants, attached to the scaffold frame member by platform lock-and-shelter clips supported by the ground support member such that the scaffold provides adequate structural support for supporting heavy loads on the staging platform in addition to heavy loading of the shelter with construction waste.

Probable Assignee: PHILLIPS ROBERT M

Earliest Publication Date: 20021205



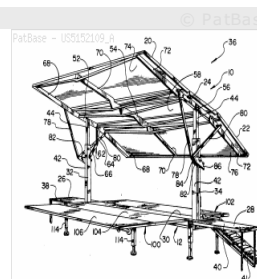
44) Family number: 5161717 (US5152109A)

PORTABLE PERFORMANCE PLATFORM

Abstract: Source: US5152109A A portable performance platform for the performing arts includes a wheel mounted chassis adapted for towing by an automobile or truck. A staging compartment is mounted on the chassis that includes front and rear end walls, opposed sidewalls, an overhead roof, and a compartment floor. Opposed telescoping towers are mounted on the front and rear ends of the chassis to provide right and left upright supports for the overhead roof. The compartment sidewalls are pivotally carried along opposed side margins of the roof, and are outwardly extendible to present an extended canopy in conjunction with the roof when the platform is set up in its performance configuration. A unique actuating assembly raises and lowers the sidewalls in tandem, and tilts the raised canopy to an acoustically desirable orientation. In the performing configuration, the platform aprons of the portable performance platform are pivoted downwardly so as to be flush with the compartment floor. The forward apron is articulated to present an enlarged stage platform in the extended position and includes a unique apron actuating assembly for raising and lowering the platform between performance and stowed configurations.

Probable Assignee: WENGER CORP

Earliest Publication Date: 19921006



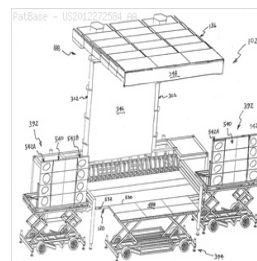
45) Family number: 52216629 (US2012272584A)

RAPIDLY DEPLOYABLE STAGE SYSTEM

Abstract: Source: US2012272584A The present disclosure provides a rapidly deployable stage system, including a primary stage unit, a secondary stage unit including a container for transporting a pair of stage buggies and a pair of video buggies. The primary stage unit includes remotely actuated lateral supports that enable self-unloading of the primary stage unit from a standard semi-truck trailer, remotely steerable wheel units that controllably move the primary stage unit to a desired location, a remotely actuated main stage that pivots into an in-use position, and a remotely actuated roof assembly that is positioned above the main stage when in an in-use position. Each buggy is remotely controllable to move out of the container into an in-use position.

Probable Assignee: HITECH STAGES LTD

Earliest Publication Date: 20121101



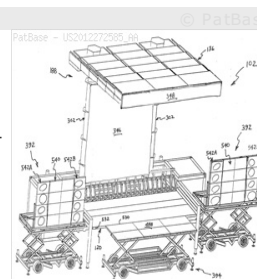
46) Family number: 52216630 (US2012272585A)

RAPIDLY DEPLOYABLE BUGGIES FOR A STAGE SYSTEM

Abstract: Source: US2012272585A The present disclosure provides a buggy for enhancing a performance, including a frame, an engine, a pair of wheel assemblies, at least one scissor lift, an upper frame mounted to the at least one scissor lift and configured to be moved by the at least one scissor lift between a stowed position and an in-use position, the upper frame supporting one of a platform and a video display, and a receiver/controller mounted to the frame and coupled to an actuator powered by the engine for operating the engine and the scissor lift. The receiver/controller is configured to respond to receipt of signals from a remote control by activating the engine, causing the wheel assemblies to move the buggy to a desired location, and activating the at least one scissor lift to raise and lower the upper frame between the stowed position and the in-use position.

Probable Assignee: HITECH STAGES LTD

Earliest Publication Date: 20121101



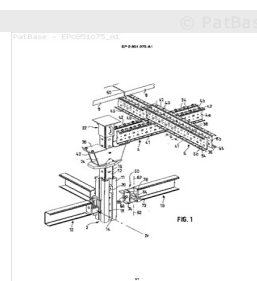
47) Family number: 11400718 (EP0851075B1)

ELEVATED PLATFORM OR STAGING, PARTICULARLY FOR USE AS FLOORSHUTTERING FOR CONCRETE

Abstract: Source: EP0851075A1 Erhoehte Plattform oder Buehne, insbesondere ausgebildet als Deckenschalung fuer das Betonieren, aufweisend: (a) aufrechte Steher (2); (b) Haupttraeger (4), die sich an den Stehern (2) abstuetzen; (c) Nebentraeger (6), die sich durch Auflagern einer unteren Lagerflaeche (36) auf einer oberen Lagerflaeche (34) mindestens eines Haupttraegers (4) abstuetzen; (d) und Platten (8), die auf Nebentraegern (6) aufgelagert sind, dadurch gekennzeichnet, (e) dass mindestens bei einem erheblichen Teil der Haupttraeger/Nebentraeger-Auflagerstellen eine formschlussige Festlegung zwischen dem betreffenden Haupttraeger (4) und dem betreffenden Nebentraeger (6) gegeneuber Kraeften beliebiger Richtung in der Lagerflaechebene vorgesehen ist; (f) dass die formschlussige Festlegung durch Eingriff von Vorstehelementen (42) mit oeffnungen (40) und/oder mit Traegerraendern (54) gebildet ist, wobei die Eingriff-Vorstehelemente (42) von dem betreffenden Haupttraeger (4) nach oben vorstehen und die Eingriff-oeffnungen (40) und/oder die Eingriff-Traegerraender (54) an dem betreffenden Nebentraeger (6) vorgesehen sind und/oder umgekehrt; (g) und dass bei dem betreffenden Haupttraeger (4) und dem betreffenden Nebentraeger (6) eine Reihe von Vorstehelementen (42) bzw. Oeffnungen (40), sofern solche vorhanden sind, laengs des Traegers vorgesehen sind.

Probable Assignee: ALPI AG

Earliest Publication Date: 19980312



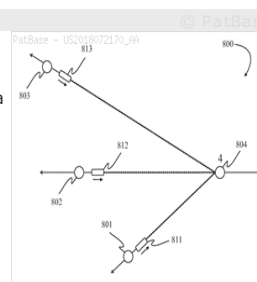
48) Family number: 68878174 (US2018072170A)

DRONE CHARGING STATIONS

Abstract: Source: US2018072170A A charging system for drones has a base structure connected to a power grid, a connector extendable from the base structure and ending in a charging interface compatible with a charging port of a drone, and a computerized controller at the base structure enabled to communicate with a drone and to initiate, control and stop charging power. As a drone approaches the charging-system, the controller directs the drone into position for charging, manages connection of the charging interface to the charging port of the drone, initiates charging power, monitors progress of charging, and upon completion of charging, disconnects the charging interface from the charging port of the drone.

Probable Assignee: EVANS MICHAEL STEWARD

Earliest Publication Date: 20180315



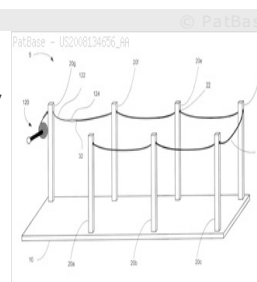
49) Family number: 41908761 (US2008134656A)

SYSTEM AND METHOD FOR TENSIONING AND LOCKING A SAFETY STRAND

Abstract: Source: US2008134656A A system for tensioning and locking a safety strand to a plurality of sequentially arranged stanchions is provided. Each stanchion has a stanchion cross section and a passage bore adapted for slidable passage of the safety strand therethrough. The system comprises tensioning means for applying a tensile force to a first end of the safety strand when the safety strand is disposed through the passage bore of each of the sequentially arranged stanchions and a second end of the safety strand is secured to an immovable object. The system further comprises a plurality of locking mechanisms. Each locking mechanism comprises a cable cradle having a receiving channel configured for receiving a portion of the safety strand, a clamping arrangement adapted for engaging and trapping the portion of the safety strand within the receiving channel, and means for securing the cable cradle and clamping arrangement to a selected one of the plurality of stanchions when the safety strand is disposed through the passage bore of the selected stanchion. The cable cradle and means for securing are configured so that when the cable cradle is secured to the selected stanchion, the receiving channel is in registry with the passage bore.

Probable Assignee: NORTHROP GRUMMAN SHIPBUILDING INC

Earliest Publication Date: 20080612



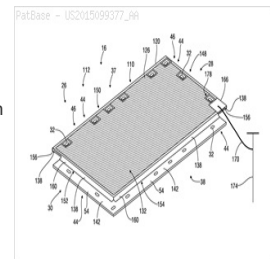
50) Family number: 58902667 (US2015099377A)

APPARATUS AND METHODS FOR ELECTRICALLY GROUNDING A LOAD-SUPPORTING SURFACE

Abstract: Source: US2015099377A Apparatus for electrically connecting and grounding at least two mechanically interconnectable, planar mats in a reusable load-supporting surface includes at least one removable, electrically-conductive cover configured to be engaged with each mat and extend at least partially across the top and/or bottom face thereof. Each cover includes at least one conductive interface configured to electrically connect its associated mat with at least one other mat in the load-supporting surface.

Probable Assignee: NEWPARK MATS AND INTEGRATED SERVICES LLC

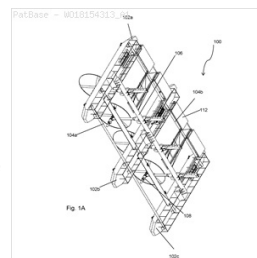
Earliest Publication Date: 20150409



Abstract: A turbine system has an apparatus for raising a turbine relative to a support. The motion of the turbine as it is raised takes the form of an arc. The turbine support is a three-hulled variant in some cases. Also described is a turret mooring system for anchoring the turbine system in place at sea. The turret is attachable to the turbine assembly while the assembly is on land. The turbine assembly can then be towed to the anchoring site where the anchoring lines are attached to the turret. This simplifies the anchoring process, particularly in rough seas where attaching the turret to the assembly may be difficult or impossible. An alternate anchoring system comprising an upstream buoy anchored to an upstream anchoring point and a downstream buoy anchored to a downstream anchoring point is also described. This buoyant mooring system reduces the vertical component of the tension in the anchoring cables, and reduces the effect of pitching forces generated by the turbines.

Probable Assignee: SUSTAINABLE MARINE ENERGY LTD

Earliest Publication Date: 20180829



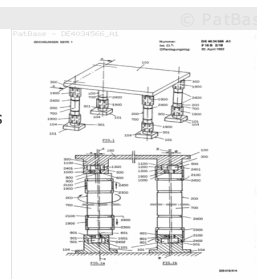
56) Family number: 8659013 (DE4034566A1)

ASSEMBLY SYSTEM FOR OBJECTS MADE OF PARALLEL PARTS - CONSISTS OF END PIECES, INTERMEDIATE PIECES, ECCENTRIC PINS AND SPACER PIECE, WITH PANEL HOLES

Abstract: The system for rapidly assembling and dismantling objects made of several, parallel parts such as panels (100) incorporates connections consisting of two end-pieces (510), two intermediate pieces (800) pivot mounted on eccentric pins, (601) and a spacer-piece (700). The panels (100) have holders (301) with holes (1000) and relieving attachment (1101) into which fits connecting-rods. The end-pieces (510) are joined to the spacer-piece (700) by means of the pins (601), and the pieces being joined given half a turn by hand and without the need for tools. **ADVANTAGE** - Useful objects such as tables, beds, bridges, framework etc. are constructed and, after use, easily dismantled and transported compactly.

Probable Assignee: LE THANH SON DIPL ING

Earliest Publication Date: 19920430



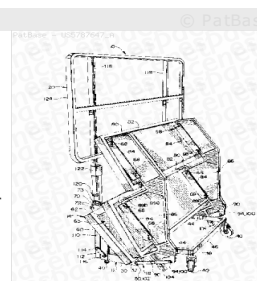
57) Family number: 11564810 (US5787647A)

PORTABLE RISER

Abstract: Source: US5787647A The choral riser is to be supported on a stage surface. The choral riser has a base that presents two spaced apart base supports, each of the base support having a first and a second spaced apart pivot point. A first step member has a step pivot point and a base pivot point that is operably pivotally coupled at the base pivot point to the base at the base first pivot point and has at least one step presented thereon. A second step member has a step pivot point and a link pivot point that is operably pivotally coupled at the step pivot point to the first step member at the first step member step pivot point and has a plurality of steps presented thereon. A bar link member is operably pivotally coupled at a first end pivot point to the second step member bar link pivot point. The bar link member is operably pivotally coupled at a second end pivot point to the base second pivot point. The first and second step members are pivotable between a stowed configuration, with at least one of the steps of the first step member facing at least one of the steps of the second step member, and an operational configuration in which the steps of the first and second step members present an ascending succession of steps. The steps are readily reversible to change the stage presentation form.

Probable Assignee: WENGER CORP

Earliest Publication Date: 19980804



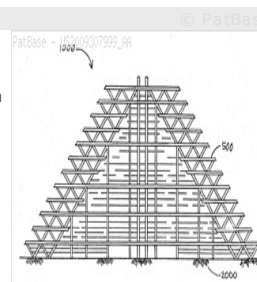
58) Family number: 44121504 (US2009307999A)

TERRACED STRUCTURED LAND JOINT AND ASSEMBLY SYSTEM

Abstract: Source: US2009307999A Terraced structured land joint and assembly system is disclosed, and includes a plurality of self-interlocking joints, each providing monolithic anchors for a plurality of compression and tension members. Tension members reside within compression members. Compression/tension members are linked between joints by couplers, defining structured land including planar space frames, horizontal truss members, and vertical truss members. Structural forces are transferred through the joints into horizontal and vertical truss members, with resultant loads transferred to the ground.

Probable Assignee: NII KOICHI PAUL

Earliest Publication Date: 20091217



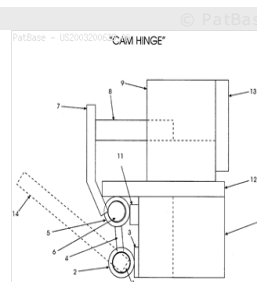
59) Family number: 29418083 (US2003200629A)

CAM HINGE

Abstract: Source: US2003200629A A Cam Hinge is a hinge mechanism that connects a Wing Framework to a horizontal Main Framework in a perpendicular orientation, and allows the Wing Framework to fold down and form a single close fitting platform in one plane. Such a hinge is generally used in portable staging and or folding wing systems. The Wing Framework folds down to a horizontal position and is supported by a leg in contact with the ground on the outside edge of the Wing Framework. At this point the cam lever is unlocked and rotated approximately 190 degrees to the final position creating a close fitting platform in one plane.

Probable Assignee: SCHEFTER ADAM DEWITT

Earliest Publication Date: 20031026



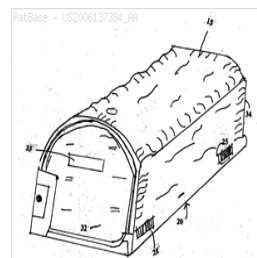
60) Family number: 33090980 (US2006137384A)

FLOOD AND STORAGE BAG

Abstract: Source: US2006137384A The present invention discloses a flood and storage device for storing products during floods. The product has a self-releasing "framework" once activated akin to that of the "self opening" umbrella. The flood and storage device further includes a rigid interior frame structure 10 (shown in Fig. 2) completely encompassed by a waterproof covering 15 defining housing 20 having interior cavity 25 therein. Interior cavity 25 varies in size and length to completely encompass the contents to be protected from a flood.

Probable Assignee: BERNARD LEE

Earliest Publication Date: 20060629



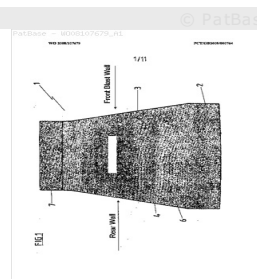
61) Family number: 34462506 (WO08107679A1)

BLAST DEFENCE BARRIER

Abstract: The present invention relates to a blast defence barrier element (1,100,200) and an assembly formed thereof for the deflection, attenuation or mitigation of blast effects and the protection of personnel and property from ballistic attack and the effects of ricochet and rebound. The assembly comprises a plurality of barriers (1,100,200) each comprising an enclosed chamber C formed to contain blast attenuation media. In a preferred arrangement, the blast defence barrier elements (1,100,200) are constructed using discrete components (2,3,4,5,6,7; 102,103,104,105,106,107; 202,203,205) which are relatively light and easy to store, transport and erect. Mitigation media is loaded into the chamber once the barrier elements are erected. Liner bags B are secured and filled in situ to prevent the media leaking from the chamber. The ' barrier elements (1,100,200) are particularly useful for constructing barrier wall assemblies for use as blast defence barriers, crash barriers, shielded walkways, anti-ramming walls, radiation shields and detonation separators.

Probable Assignee: DEFENDER INTERNAT LTD

Earliest Publication Date: 20080910



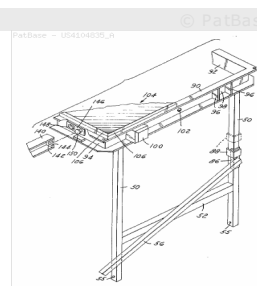
62) Family number: 6850376 (US4104835A)

PORTABLE STAGING EQUIPMENT

Abstract: Source: US4104835A A staging system composed of portable components to provide an inexpensive system which is easily assembled and disassembled and which has safety connections and strengthening elements to assure safe assembly and a level platform. A series of panels carrying adjustable supporting stanchions spaced by detachable joists on which are supported drop-in filler panels with interlock devices to assure proper lock-in of the separable parts.

Probable Assignee: AZTEC STAGING CO INC

Earliest Publication Date: 19780808



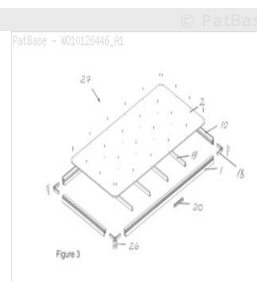
63) Family number: 47489218 (WO10126446A1)

DEMOUNTABLE FLOORING

Abstract: An edge profile (1) for connection of a decking member (2) to a supporting frame in a demountable flooring construction is provided. Said edge profile (1) has a top end, a bottom end and two side walls between the top end and the bottom end. A first projection unit (3) extends towards the bottom end of said edge profile (1) and is positioned at one of said side walls of said edge profile (1). Said edge profile (1) further comprises at least one second projection unit (4) extending towards the bottom end of said edge profile (1) and positioned at a distance from said first projection unit (3). The first and second projection units define a substantially U-shaped cavity (5) there between.

Probable Assignee: MON ZON DEV AB

Earliest Publication Date: 20101104



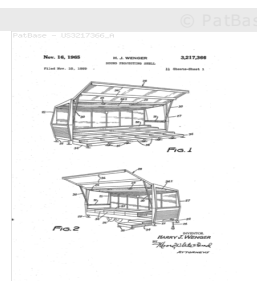
64) Family number: 22900398 (US3217366A)

SOUND PROJECTING SHELL

Abstract: Source: US3217366A (Claim 1) 1. A soi-ind projecting shell comprising, a wheeled van open at one side, a plurality of fixed risers secured - therein, a series of individually movable risers shorter than said fixed risers engaged with and positioned adjacent to said fixed risers selectively to form a flat stage and consecutive risers alternately, a canopy hin,-ed to said van at the top of its open side, and means for opening, supporting in an open position, and closing said canopy selectively_, said means comprising, arms pivoted to said canopy, tracks secured to said van, said arms havin,- ends slidably engaging said tracks, sheaves positioned near said tracks, cables reeved over said sheaves, means securing said cables to the arm ends in said tracks, and a winch for movin,- said cable in two directions.

Probable Assignee: WENGER HARRY J

Earliest Publication Date: 19651116



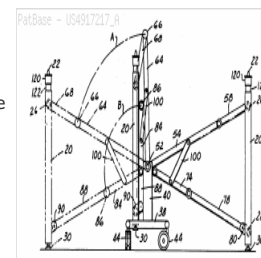
65) Family number: 3408789 (US4917217A)

PORTABLE FOLDING STAGING

Abstract: Source: US4917217A A stage panel support assembly including four corner stanchions or posts permanently cross braced in one transverse direction and connected in a longitudinal direction by double jointed arms centrally pivoted at an apex on a base frame upright. A cross brace joins respective arms at points spaced from the apex. The corner stanchions are movable from a storage position above the base frame to the operative position spaced from the base and in a vertical position relative to a supporting surface. Projections at the top of the stanchions cooperate with removable horizontal panels which further stabilize the structure in operative position.

Probable Assignee: STAGERIGHT CORP

Earliest Publication Date: 19900417



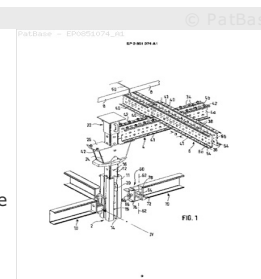
66) Family number: 11400712 (EP0851074B1)

SCAFFOLDING FOR PLATFORM, STAGING OR FLOORSHUTTERING

Abstract: Source: EP0851074A1 Geruest, insbesondere fuer eine Plattform oder eine Buehne oder eine Deckenschalung, aufweisend: (a) aufrechte Steher (2); (b) und Traversen (10), die als versteifende Querverbindungen mit ihren Enden an den betreffenden Stehern (2) befestigt sind, dadurch gekennzeichnet, (c) dass mindestens bei einem erheblichen Teil der Steher/Traversenende-Verbindungsstellen eine formschluessige Festlegung zwischen dem betreffenden Steher (2) und dem betreffenden Traversenende gegenueber Kraeften aller drei Raumrichtungen vorgesehen ist; (d) und dass der betreffende Steher (2) an der betreffenden Verbindungsstelle frei von Querauskrugung ueber seine Aussenbegrenzung ist.

Probable Assignee: ALPI AG

Earliest Publication Date: 19980312



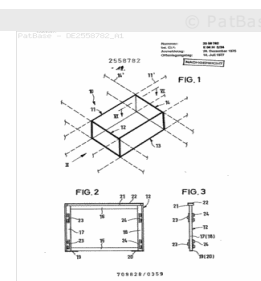
67) Family number: 2507985 (DE2558782A1)

BUEHNENGERUEST VARIABLE PLATFORM ASSEMBLY FOR STAGES - HAS FRAMES PLUGGED TOGETHER IN STEP FORMATION WITH SEATING COVER PANELS ON TOP

Abstract: Source: DE2558782A1 Patentansprueche: Buehnengeruest fuer den Aufbau veraenderbarer Podien, Tribuenen, Laufstege und dergleichen, bestehend aus in StoR- stellen aneinander gefuegten Rahmenteilen, die im Bereich ihrer unteren Kanten mit Aufstandsflaechen oder Fuessen versehen sind und deren Oberkanten Auflager fuer auflegbare Abdeckplatten bilden, dadurch gekennzeichnet, dass die Rahmenteile als Steckrahmen (11, 12, 13, 14) ausgebildet und mittels im Bereich der aneinander grenzenden Stossstellen mehrerer Steckrahmen angeordneter Kupplungselemente fest, jedoch loesbar, miteinander verbunden sind 2. The platform framework is used in the construction of variable stages, or running boards. Frame pieces are joined together at abutting points, with support surfaces or feet in the area of their bottom edges, and with their top edges providing seats for cover panels which can be laid on top. The frame pieces are made in the shape of plugging frames (12). They are firmly but detachably interconnected by coupling elements sited in the area of a number of adjoining points of abutment. These elements may be plug couplings (23,24) enabling two or more frame pieces to be joined together. They may be multiple couplings for three or more pieces extending in different directions. The frame pieces may have alternating male and female plug units at their ends.

Probable Assignee: THEATERTECHNIK GMBH

Earliest Publication Date: 19770714



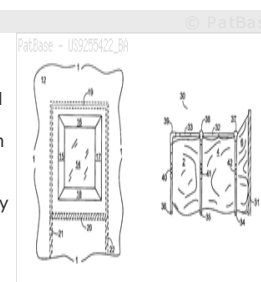
68) Family number: 61610768 (US9255422B)

LEAD AND PARTICULATE ABATEMENT SYSTEM

Abstract: Source: US9255422B An encapsulating system for abating and mitigating contamination from lead-based dust, particles and/or chips in a construction repair, renovation or removal operation and thereby minimizing exposure to lead-based hazardous materials is provided. The apparatus utilizes a framing mechanism supporting an encapsulator container or workbag adapted to surround and seal off a work-area encompassing a contaminated work-piece. The framing mechanism is typically adjustable poles or an adjustable frame apparatus having a plurality of height adjustable vertical legs. The flexible plastic encapsulating container is positioned and supported by the adjustable poles or frame. The container has at least one open-end for surrounding the contaminated work-piece, and the open-end of the container is adhered to the work-area and substantially surrounds and seals off the contaminated work-piece from the interior portions of the work site.

Probable Assignee: ENCAPSULATOR LLC

Earliest Publication Date: 20160209



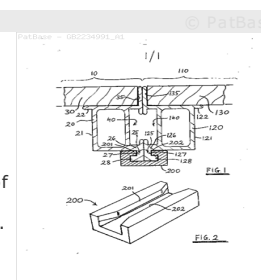
69) Family number: 6660034 (GB2234991A)

DEMOUNTABLE FLOORING, PLATFORMS AND STAGING

Abstract: Source: GB2234991A A floor unit for a demountable flooring system comprises a floor panel [30, 130] provided at or near to at least one of its peripheral edges [35, 135] with a flange [25, 125] arranged along or at least substantially parallel to said edge and having a portion which extends downwardly or generally downwardly relative to said edge, whereby when two such floor units are positioned with their respective such edges [35, 135] adjacent or substantially adjacent to each other, a connecting member [200] may be applied externally over both of the respective said flange portions, so as to connect the floor units together. Side channels 40, 140 of the units are exposed at the edge of the stage and may be used in connecting accessories, e.g. balustrades, backdrops, curtains.

Probable Assignee: STEPHENSON AIREY TREVOR

Earliest Publication Date: 19910220



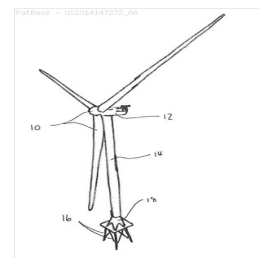
70) Family number: 52072829 (US2014147272A)

METHODS AND APPARATUS FOR SERVICING WIND TURBINE COMPONENTS THROUGH A LOWER PORTION OF A TOWER

Abstract: Source: US2014147272A A wind turbine tower (14) is supported on a transition piece (18) that connects the tower (14) to a foundation and that defines a space (28) beneath the lower end of the tower (14). Electronic components positioned within a removable module (24) in the lower portion of a wind turbine tower may be removed through a lower end of the tower for service or replacement.

Probable Assignee: VESTAS WIND SYSTEMS A S

Earliest Publication Date: 20121004



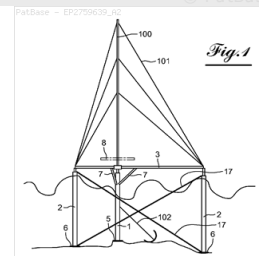
71) Family number: 57049886 (EP2759639B1)

MESSMAST MEASUREMENT TOWER

Abstract: Source: EP2759639A3 L'invention concerne un pylone de mesures comprenant un mat haubane (100) adapte pour etre pourvu d'au moins un instrument de mesure et une structure de base comprenant un support (1) adapte pour recevoir le mat (100). L'invention concerne egalement une structure de base pour un tel pylone.

Probable Assignee: CGTI

Earliest Publication Date: 20140730



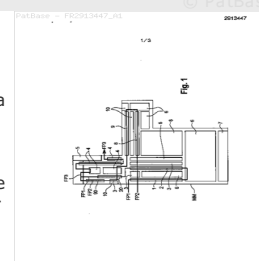
72) Family number: 42153647 (FR2913447B)

PROCEDE D'AGRANDISSEMENT D'UN ATELIER DE MONTAGE D'UNE USINE DE FABRICATION DE VEHICULES AUTOMOBILES ET ATELIERS DE MONTAGE ASSOCIES

Abstract: The workshop has a vehicle segment assembling plant comprising a body covering section (1) following a vehicle assembling section (2), where body covering and vehicle assembling operations are performed in a single stage. A finished end (4) controls the vehicles at the outlet of the assembling plant. Another vehicle segment assembling plant includes a body covering section (8) following a vehicle assembling section (9), where the fitting and assembling operations are performed on a same stage as that of the former plant. The finished end controls the vehicles at the outlet of the plants. An independent claim is also included for a method for extending a workshop for assembling a manufacturing plane of automotive vehicle.

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Earliest Publication Date: 20080912



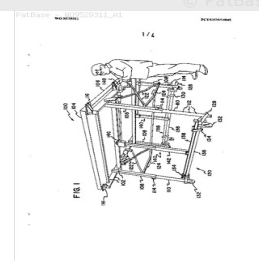
73) Family number: 8576055 (WO9529311A1)

LIFT APPARATUS

Abstract: A stage (100) includes a lift mechanism (140). The lift mechanism includes a threaded shaft (160) which rotates to lengthen or shorten a vertical lift portion (142), thereby raising or lowering the stage (100). A gearbox (146) connects the vertical lift portion (142) to an actuator shaft (144) extending to an edge of the stage (100). In this position it can be easily actuated with a drill (148) or other tool for running a power lift.

Probable Assignee: SICO INC

Earliest Publication Date: 19951102



74) Family number: 5706824 (EP0389932A1)

SUPPORT STRUCTURE FOR GRANDSTANDS.

Abstract: The grandstand has side pieces (30), which possess a front tubular piece (40.1) and a rear tubular piece (40.2), which are connected by a horizontally extending rectangular tube as horizontal support (41). In the centre, a seat support tube (46) projects upwards. The latter is connected at the appropriate height via a horizontal support (42) to the rear tubular piece (40.2) by means of welding. Upwardly open U- sections (44.1, 44.2) for suspending gangways are formed at a distance corresponding to the rise 36. The seat supports may possess eyes (50) for securing against lifting off. Special side pieces, which also possess on the rear tubular piece a seat support and additional arms for railing fixtures, can be provided for the last row. The front rows of seats can be supported by special seat support elements so that the feet of the users of the front row reach the ground.

Probable Assignee: LANGER RUTH

Earliest Publication Date: 19901003

