

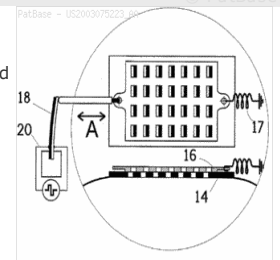
1) Family number: 28626375 (US2003075223A)

DISCHARGE VALVES FOR AIRBAGS AND AIRBAGS INCLUDING THE SAME

Abstract: Source: US2003075223A Discharge valve for an airbag including a fixed member adapted to be arranged in connection with or associated with the airbag and having a pattern of openings and a movable member having a pattern of openings substantially identical to the pattern of openings of the fixed member. The movable member is movable relative to and alongside the fixed member to vary the correspondence between the openings on the movable member and the openings in the fixed member to thereby vary valve openings defined by the fixed member and the movable member. Variation in the valve openings results in control and/or regulation of the outflow of gas from the airbag through the discharge valve. The members may be plates, cylinders or cones.

Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Earliest Publication Date: 20030424



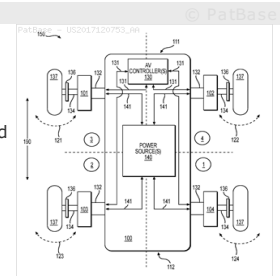
2) Family number: 63983731 (US2017120753A)

INDEPENDENT STEERING, POWER TORQUE CONTROL AND TRANSFER IN AUTONOMOUS VEHICLES

Abstract: Source: US2017120753A Systems, apparatus and methods to multiple levels of redundancy in torque steering control and propulsion control of an autonomous vehicle include determining that a powertrain unit of the autonomous vehicle is non-operational and disabling propulsion operation of the non-operational powertrain unit and implementing torque steering operation in another powertrain unit while propelling the autonomous vehicle using other powertrain units that are configured to implement torque steering operation and propulsion operation.

Probable Assignee: AKAMAI TECHNOLOGIES INC

Earliest Publication Date: 20161115



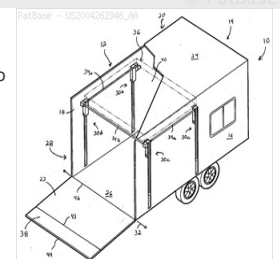
3) Family number: 31427008 (US2004262946A)

SYSTEM AND METHOD FOR MOVING OBJECTS

Abstract: Source: US2004262946A A structure is described which may include a bed, a cargo area which is used to receive an off-road vehicle, and superposed beds which move vertically between a first configuration where the beds are spaced apart in the cargo area and a second configuration where the beds are stowed adjacent to each other.

Probable Assignee: LIPPERT COMPONENTS INC

Earliest Publication Date: 20041230



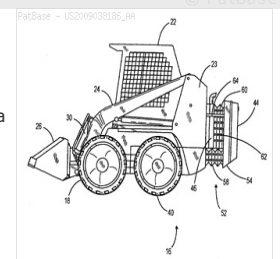
4) Family number: 42924146 (US2009038186A)

EXTENDABLE FRAME WORK VEHICLE

Abstract: Source: US2009038186A An extendable frame work vehicle offering enhanced versatility, safety and effectiveness. The vehicle includes an adjustable frame with front and rear portions that extend or retract with respect to each other. The front portion is supported by a first pair of wheels and said rear portion is supported by a second pair of wheels. Each wheel is independently driven and steered. The vehicle also includes an engine mounted on the rear portion of the frame. Incorporated into the vehicle is an electro-hydraulic assembly which enables extension and retraction of the adjustable frame. The assembly includes a sensor-responsive microprocessor controller, at least one hydraulic pump, at least one hydraulic drive motor, and at least one valve network.

Probable Assignee: EXTENDQUIP LLC

Earliest Publication Date: 20090212



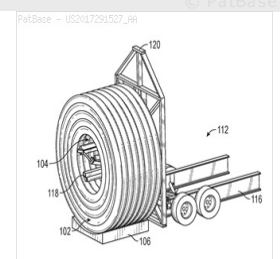
5) Family number: 67172074 (US2017291527A)

PIPE DEPLOYMENT TRAILER

Abstract: Source: US2017291527A A trailer is provided having a trailer base and a trailer bed mounted to the trailer base. The trailer includes at least one actuator coupled to the trailer bed and the trailer base that raises and lowers the trailer bed. When the at least one actuator is extended, the trailer bed is raised to a vertical orientation. When the at least one actuator is retracted, the trailer bed is in the horizontal orientation. The trailer includes a lifting head protruding outwardly from the trailer bed. The position of the lifting head is adjustable along a longitudinal axis of the trailer bed.

Probable Assignee: TRINITY BAY EQUIPMENT HOLDINGS LLC

Earliest Publication Date: 20171012



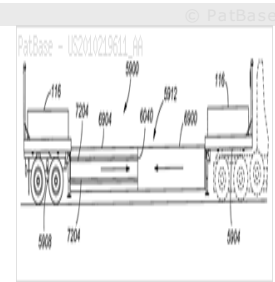
6) Family number: 46711615 (US2010219611A)

SAFETY TRAILER

Abstract: Source: US2010219611A The present invention is directed to differing embodiments of safety trailers, which have first and second platforms and a safety wall positioned therebetween. The platforms and safety wall define an area protected from vehicular incursions.

Probable Assignee: CONCATEN INC

Earliest Publication Date: 20100902



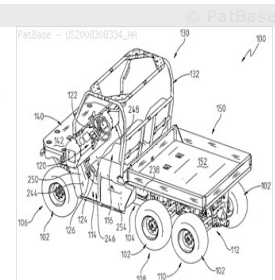
7) Family number: 42176671 (US2008308334A)

VEHICLE WITH SPACE UTILIZATION

Abstract: Source: US2008308334A A utility vehicle with space utilization features is disclosed. The space utilization features provide storage and access to components.

Probable Assignee: POLARIS IND INC

Earliest Publication Date: 20080925



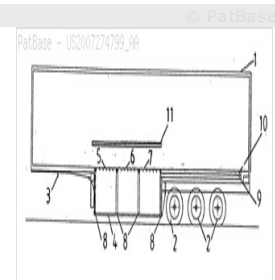
8) Family number: 30175540 (US2007274799A)

VEHICLES AND TRAILERS INCORPORATING MOVEABLE LOAD CARRYING PLATFORMS

Abstract: Source: US2007274799A A trailer is described, defining a floor extending from a first end, and comprising at least one first displaceable platform onto which goods can be loaded from the first end of the trailer. The first platform is supported such that it can be elevated when loaded and advanced away from the first end of the trailer when loaded. The first platform is preferably rolled forwards onto support tracks provided on the sidewalls of the trailer. The trailer may also include a load-carrying well with its own moveable cargo platform or platforms, and the first platform is loaded and moved up and over the well, thereby increasing the capacity of the trailer. Corresponding cargo-carrying vehicles, and loading methods are described and claimed.

Probable Assignee: MIDDLEGATE MARKETING LTD

Earliest Publication Date: 20040818



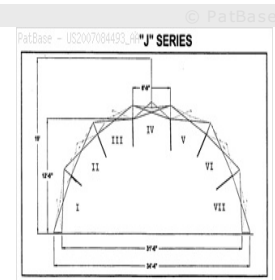
9) Family number: 34392357 (US2007084493A)

ARTICULATING HUB ASSEMBLY

Abstract: Source: US2007084493A A collapsible self-supporting structure used in combination with an improved articulating hub assembly. The articulating hub assembly is used as a connector among tubular rod elements which together provide a generally tubular frame matrix used to erect a collapsible self-supporting prefabricated deployable structure where a clear span interior without supporting columns is required.

Probable Assignee: HDT EXPEDITIONARY SYSTEMS INC

Earliest Publication Date: 20070419



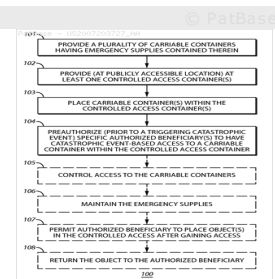
10) Family number: 40797636 (US2007203727A)

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



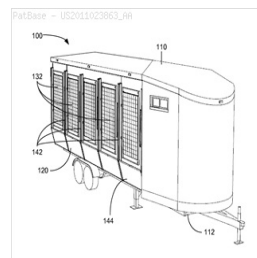
11) Family number: 48236082 (US2011023863A)

SOLAR COLLECTOR SUPPORT WINGS FOR EFFICIENT STORAGE AND DEPLOYMENT OF SOLAR COLLECTORS ON A MOBILE STRUCTURE

Abstract: Source: US2011023863A Deployable wings supporting solar collector arrays for mobile structures and associated methods of use are disclosed that provide significant power generation capacity, easy deployment, shaded work areas, and protection for solar collector arrays during transport. Some embodiments include a support surface configured to be hingedly coupled to a vehicle, a plurality of support rails extending away from the support surface to form at least one cavity, a solar collector array coupled to the support surface and within the at least one cavity, and at least one retractable cover configured to selectively cover the at least one cavity.

Probable Assignee: ANDRETICH MICAH F

Earliest Publication Date: 20110203



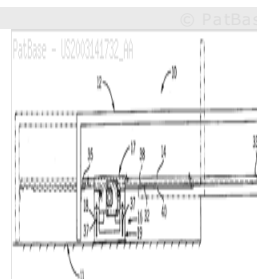
12) Family number: 23176646 (US2003141732A)

SYNCHRONIZED SLIDE-OUT MECHANISM

Abstract: Source: US2003141732A An operating mechanism for extending a slide-out section of a vehicle includes a pair of rail supports secured to a vehicle frame and a pair of rail members connected to the slide-out section with one rail member slidably engaging each rail support. Each rail member is driven by its own rack and pinion arrangement. A shaft connects the pinions so that movement of the rail members is synchronized using a single drive unit. A pair of rollers are mounted to each rail support, one roller on each side of the racks, to support the rack relative to the associated pinion.

Probable Assignee: LIPPERT COMPONENTS MFG INC

Earliest Publication Date: 19970528



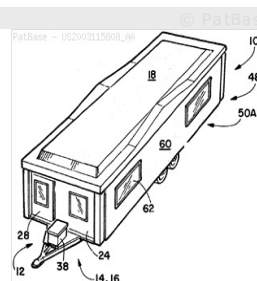
13) Family number: 28688560 (US2003115808A)

MOBILE, EXPANDABLE STRUCTURE, ASSEMBLY SUPPORT SYSTEM

Abstract: Source: US2003115808A A low profile, expandable, mobile rigid structure with unique a unique assembly and support system, that can easily be transported by an average sized vehicle. The structure features a central structure with a central roof section, a pair of endwall assemblies, and a central floor mounted to a base. The endwalls are two pieced having a bottom endwall panel and a top endwall panel. From the side of the central structure one or more side sections are retractable and expandable to increase the size of the floor space inside. The two pieced endwalls allow for compaction of the structure for travel by translating the lower portion of the endwall from supporting the upper portion. A two pieced door allows entry into the structure when it is expanded.

Probable Assignee: MORROW FLOYD L

Earliest Publication Date: 20030626



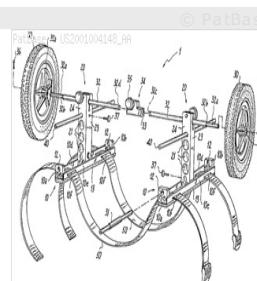
14) Family number: 28116123 (US2001004148A)

PORTABLE CART

Abstract: Source: US2001004148A A portable cart, for use in camping, hunting and other outdoors activities carries canoes, small boats, game, injured parties or hauled cargo by hand. The portable cart can be converted to a canoe or boat cart which can be folded down and transported within the canoe or boat, or to a game cart for transporting game over long, rough terrain, or to a cargo hauling gear cart, all of which can be broken down into a carrying position, by hand or by back. The portable cart can be carried by hand or as a backpack over rough terrain. Its width can be varied to accommodate watercraft of varying widths. The cart has optional removable clamps for clamping a conventional transportable carrier, such as a stretcher or stokes-type rescue carrier bed, thereto. Another optional bicycle pull clamp includes an ant-tipping attachment resisting centrifugal force urging said cart to tip over during a directional turn of the cart-hauling bicycle. It is collapsible, so that it can be disassembled and carried in a canoe or small boat, and then reassembled at another destination along the canoe or boat's journey.

Probable Assignee: VALIANT ROCK LLC

Earliest Publication Date: 20000713



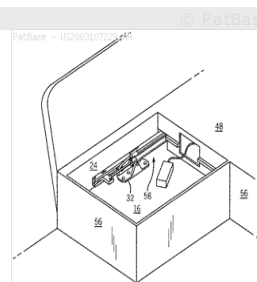
15) Family number: 30003812 (US2003107229A)

HYDRAULIC SLIDE OUT ASSEMBLY AND METHOD OF OPERATION

Abstract: Source: US2003107229A A vehicle including a stationary floor and an upwardly extending exterior wall fixed relative to the stationary floor. An opening formed in the exterior wall receives a slide-out section disposed therein. The slide-out section is movable relative to the stationary floor between an extended position and a retracted position. An actuating mechanism controls the movement of the slide-out section. The actuating mechanism includes at least one hydraulic actuator having an extendible ram extendible from a cylinder. The extendible ram is fixed to at least one of the stationary floor and the slide-out section, and the cylinder is fixed to the other of the stationary floor and the slide-out section. Retraction of the extendible ram slidably moves the slide-out section to the extended position.

Probable Assignee: LIPPERT COMPONENTS MFG INC

Earliest Publication Date: 20030320



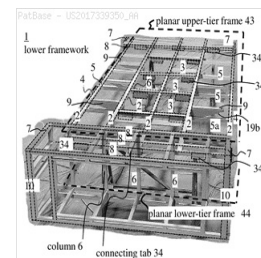
16) Family number: 63564183 (US2017339350A)

MOBILE STUDIO AND METHOD FOR USING MOBILE STUDIO

Abstract: Source: US2017339350A A mobile studio and a method for using the mobile studio are disclosed. The mobile studio is provided with lower and upper frameworks. A lower framework includes a planar upper-tier frame and a planar lower-tier frame, the planar upper-tier frame has a connecting tab to secure the mobile studio to a vehicle. An upper framework is secured to the lower framework. The upper framework supports at least a production area. Preferably, the upper framework supports a storage area including a rack assembly. Preferably, the rack assembly faces a rear door, at least part of the rack assembly having a sound insulating material. The method for using the mobile studio is provided with securing a bracket onto the chassis of the vehicle, loading the mobile studio onto the bracket, and securing the mobile studio to the vehicle using the connecting tab.

Probable Assignee: HITACHI KOKUSAI ELECTRIC INC

Earliest Publication Date: 20160915



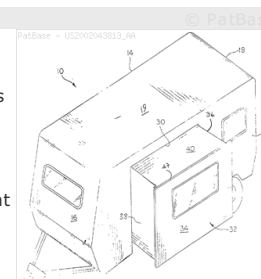
17) Family number: 28231310 (US2002043813A)

MAGNETIC LATCHING MECHANISM FOR A SLIDE OUT ROOM

Abstract: Source: US2002043813A A latching mechanism for a slide out room of mobile living quarters that latches the slide out room to the side wall of the living quarters, sealing the fascia of the slide out room to the side wall when the slide out room is in the retracted position. The seal formed prevents moisture or other contaminants from entering the inner space of the mobile living quarters. Compressible bubble seal is used to further seal off the inner space from the elements ensuring better protection of the slide out room while it is in the retracted position. In an effort to increase the effectiveness of the magnetic seal, booster magnets may be utilized, along with many different variations of magnetic camming mechanisms. Separation of the slide out room from the mobile living quarters is achieved through a number of manual releases intended to overcome the magnetic sealing force, allowing the slide out room to be extended.

Probable Assignee: LIPPERT COMPONENTS MFG INC

Earliest Publication Date: 19990708



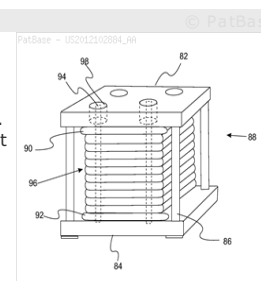
18) Family number: 51043276 (US2012102884A)

PACKAGING COMPONENT, METHOD OF USE, AND METHOD OF MANUFACTURE

Abstract: Source: US2012102884A A packaging component for use with an article includes a panel having a first shell with a first surface facing the exterior of the package and a first opposing, spaced apart inward-facing surface. The first shell defines a first cavity. The panel further includes a first core situated in the first cavity wherein the first core includes a plurality of in-situ expanded polymer particles.

Probable Assignee: ROBERTS RICHARD

Earliest Publication Date: 20120503



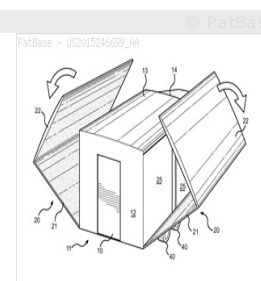
19) Family number: 60266981 (US2015246699A)

EXPANDABLE TRAILER VEHICLE

Abstract: Source: US2015246699A An expandable trailer vehicle is provided. The trailer vehicle comprises a wheeled vehicle frame that is adapted to be towed by a towing vehicle. The vehicle frame supports an expandable trailer structure having a front and rear wall, a floor, and a roof. The trailer structure includes expandable sections from the sides thereof, whereby a pair of L-shaped expandable side sections pivots outward from the sides of the trailer structure and form the floor and outer walls when deployed. Pivoting sidewalls pivot forward and rearward from the sides of the trailer structure to form the front and rear walls of the expanded section, closing out the L-shaped side sections when in a deployed state. A pair of side section roof surfaces extends from the roof of the trailer vehicle to close off the upper surface of the L-shaped side sections when in a deployed state.

Probable Assignee: ANABTAWI NIZAM

Earliest Publication Date: 20150903



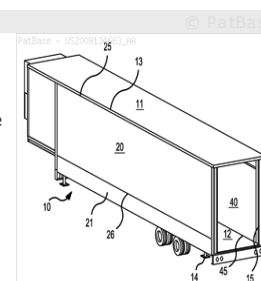
20) Family number: 43306408 (US2009134663A)

EXPANDABLE MOBILE FACILITY

Abstract: Source: US2009134663A A mobile facility has a fixed frame, an expandable roof section, an expandable floor section, and an expandable side section. Interior space within the mobile facility is expanded by expanding the expandable roof section, the expandable floor section and the expandable side section.

Probable Assignee: PATHFINDER SYSTEMS INC

Earliest Publication Date: 20090528



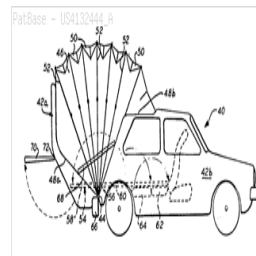
21) Family number: 1533580 (US4132444A)

EXPANDABLE VEHICLE

Abstract: Source: US4132444A {PG,1 A body portion of a standard type vehicle, such as the rear body panel of an automobile or a side body panel of a van, is pivotally connected to the balance of the vehicle by an accordion folding hood to define an original enclosed usable volume in the collapsed position of the hood, which volume is bisected by a diagonal extending through the pivot axis for the movable body portion. The diagonal defines the confronting edges of the movable body portion with the balance of the vehicle in the collapsed position of the hood. The body portion in the collapsed position of the hood defines a half volume for the enclosed usable volume which when pivotally rotated about the pivot axis through an angle of 90 degrees describes an arch for the diagonal which defines a path of travel for the accordion hood to create a new expanded enclosed usable volume having an increased headroom and a total enclosed volume greater than twice that of the original enclosed volume. Many variations in this basic arrangement are described to provide a variety of configurations of cubical or rectangular volumes.

Probable Assignee: MECHANICAL PLASTICS CORP

Earliest Publication Date: 19790102



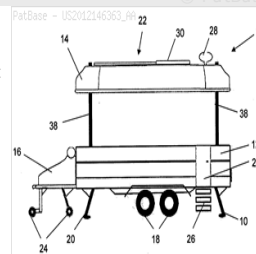
22) Family number: 47543126 (US2012146363A)

ROOF ASSEMBLY

Abstract: Source: US2012146363A The present disclosure provides a roof assembly for covering a region adjacent a structure. The roof assembly comprises a plurality of roof assembly portions, each roof assembly portion comprising a layer portion and a support portion for supporting the layer portion. The roof assembly portions comprise first and second side roof assembly portions, and a corner roof assembly portion that is positioned between the first and second side roof assembly portions. The roof assembly portions are moveable between a retracted and an expanded configuration wherein the side roof assembly portions and the corner roof assembly portion move together between the configurations.

Probable Assignee: EMU INNOVATIONS PTY LTD

Earliest Publication Date: 20101111



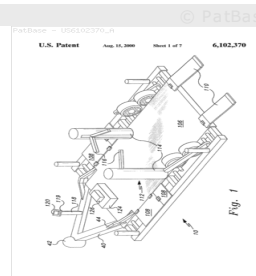
23) Family number: 14946452 (US6102370A)

TRAILER WITH EXPANDABLE SIDES AND RETRACTABLE WHEELS

Abstract: Source: US6102370A A trailer with expandable sides and retractable wheels used for performing on site vehicle maintenance and repair services. The trailer has a rectangular frame mounted on wheels with a conventional trailer coupler for attachment to a towing vehicle. The wheels are pivotally mounted to the frame, the wheels being locked in a ground engaging position for towing the trailer, and being unlocked so that the frame may be lowered into a ground engaging position by a plurality of hydraulic cylinders for the servicing of vehicles. The frame includes a plurality of crossbeams. A pair of side extenders telescope into the front, rear and center crossbeams so that the width of the trailer may be extended by hydraulic cylinders with the frame in a ground engaging position. The trailer includes a two-post hydraulic vehicle lift for raising the vehicle to be serviced.

Probable Assignee: JOHNSTON PAUL

Earliest Publication Date: 20000815



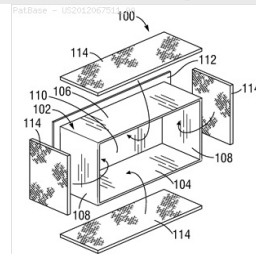
24) Family number: 50792631 (US2012067511A)

METHOD FOR MANUFACTURING COMPOSITE COMPONENTS

Abstract: Source: US2012067511A A slide-room for installation in a recreational vehicle or other structure is disclosed. The slide-room comprises a shell, which can be constructed from fiberglass. The shell comprises an end wall, a ceiling, a floor, two opposing side walls, and a flange extending from the end wall, wherein the end wall, the ceiling, the floor, the side walls and the flange comprise a one-piece, unitary construction. Also disclosed are methods for molding composite components, such as slide-room. In one specific implementation, the shell for a slide-room is formed from fiberglass using a vacuum assisted resin transfer process.

Probable Assignee: COMPOSITE SOLUTIONS INC

Earliest Publication Date: 20120320



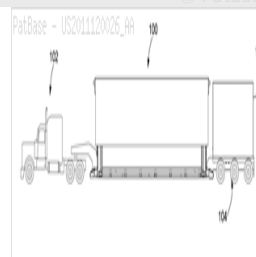
25) Family number: 48655534 (US2011120026A)

MOBILE MULTI-FUNCTIONAL SHELTER UNIT

Abstract: Source: US2011120026A A mobile multi-functional shelter unit, for use as a general working area or for storing and maintaining heavy machinery. The mobile multi-functional shelter unit includes a central structure that has a deployed state and a non-deployed state as well as means for translating from the deployed state to the non-deployed state. The central structure has a base section, a central floor mounted on top of the base section, track means for raising a vehicle from a ground surface onto and off of the central floor. The central structure supports a raisable roof assembly and a lateral pullout assembly.

Probable Assignee: 564581 ALBERTA LTD

Earliest Publication Date: 20110321



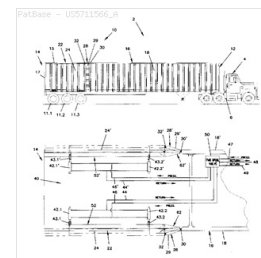
26) Family number: 15023372 (US5711566A)

CONTAINER WITH EXPANDABLE SIDE WALLS

Abstract: Source: US5711566A A container, such as a transfer trailer, a roll-off container, or other container that can be transported, has expandable side walls. The walls are hydraulically, or otherwise, forced outward to increase the inside width dimension of the container. A loading device, such as a garbage route collection truck or other similar vehicle can then be backed into the container whereby the solid material waste or other commodities can be directly loaded into the container. Once the container has been loaded, the side walls can be retracted to their original positions, such that the container maintains its standard regulated width dimension.

Probable Assignee: FOSTER RAYMOND KEITH

Earliest Publication Date: 19961026



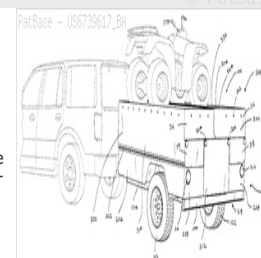
27) Family number: 30184670 (US6739617B)

EXPANDABLE TRAILER

Abstract: Source: US6739617B An expandable trailer for recreational use includes hinged sidewalls that are capable of moving between a storage configuration and a deployed configuration. In the storage configuration, a reinforced storage surface is available to support heavy cargo, such as a personal watercraft, an off-road vehicle, or a snowmobile. In the deployed configuration, an enclosed living quarters is available for camping and stowing smaller pieces of cargo. A tent assembly may be erected upon the expandable trailer when the hinged sidewalls are in the deployed configuration. The expandable trailer is adapted to be towed behind a car, light truck, jeep, or other automobile.

Probable Assignee: MARTIN ARNE L

Earliest Publication Date: 20031224



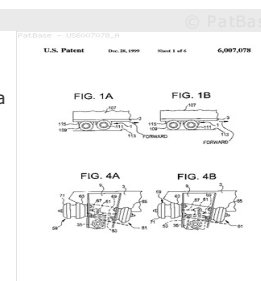
28) Family number: 15101528 (US6007078A)

SELF-STEERING, CASTER ADJUSTABLE SUSPENSION SYSTEM

Abstract: Source: US6007078A A self-steering axle suspension system of the parallelogram type is provided with a tri-pivot cradle mechanism for changing the caster of the axle to provide for either a reverse or forward steerable axle mode while equalizing the forces on the pivots in the parallelogram to reduce pivot wear out.

Probable Assignee: BOLER CO

Earliest Publication Date: 19990930



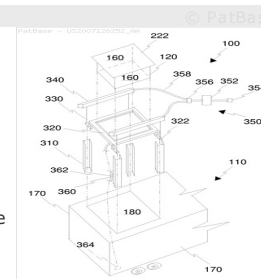
29) Family number: 34536138 (US2007126252A)

INTERIOR SPACE EXPANSION SYSTEM

Abstract: Source: US2007126252A An interior space expansion system for use with a structure needing collapsible and/or expandable space, including: a base structure having an aperture therethrough; a movable structure disposed within a central region of the base structure when in a sunken position and substantially exterior the base structure when in an elevated position; and a lifting system coupled to the base structure and the movable structure. The base structure is a trailer or recreational vehicle. The movable structure includes a cab a carriage and a footing. The lifting system couples to the footing and transitions the movable structure between the sunken and elevated positions. The lifting system is not substantially disposed within the central region of the base structure when the movable structure is in the elevated position. There is a cap member for covering the aperture when the movable structure is in the sunken position.

Probable Assignee: BONNER ROBERT L

Earliest Publication Date: 20070607



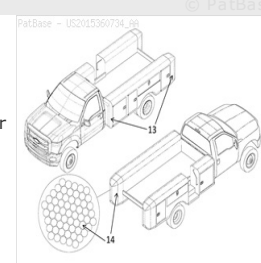
30) Family number: 61122586 (US2015360734A)

TRUCK BODY ASSEMBLY AND METHODS OF MAKING AND USING SAME

Abstract: Source: US2015360734A An assembly for utility truck bodies having metal and/or composite reinforcement(s) and/or foam reinforcements and/or honeycomb reinforcement/ and/or wood reinforcements encapsulated within a thermoformed thermoplastic, or thermoset or fiber-reinforced thermoset walking surface floor structure of the truck bed assembly or other composite floor structure with attachable components and junctions, e.g., sidepack(s), and methods of making the same are provided.

Probable Assignee: ALTEC IND INC

Earliest Publication Date: 20151217



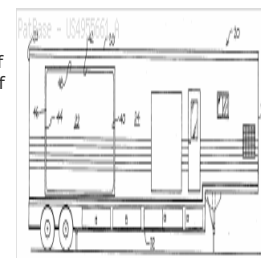
31) Family number: 4234855 (US4955661A)

ENVIRONMENTALLY PROTECTED EXPANDABLE TRAILER

Abstract: Source: US4955661A An expandable transportable enclosure is described which includes an environmentally protected expandable section. The expandable section extends away from the body of the enclosure and includes an inflatable seal which fills the gap located between the expandable section and the body of the enclosure. The environmentally protected expandable section also includes a retractable floor which is raised off the bottom of the expandable section to insulate the floorboard from the exposed, bottom surface of the expanded section. Finally, an automatically retracting cover, over the expandable section, is provided to prevent the accumulation of snow, water, dirt, or other environmental elements on the top of the expandable section. The environmentally protected unit thus provides a comfortable and weather insulated expanded, interior trailer space without the requirement of costly manufacturing.

Probable Assignee: MEDICAL COACHES INC

Earliest Publication Date: 19900911



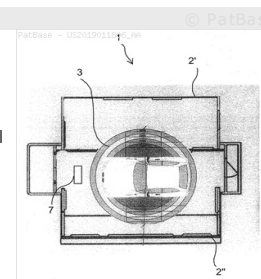
32) Family number: 72766729 (US2019011806A)

MOBILE PHOTOGRAPHY STUDIO

Abstract: Source: US2019011806A A mobile photography studio for photographing objects. The studio has a main trailer body having an internal volume defined by a roof, a floor, a front wall, a rear wall, and two side walls. A control computer controls an expansion of the sidewalls of the trailer, and optionally the roof, to expand the internal volume of the trailer. A turntable, which is disposed on the trailer floor supports and rotates the object based on commands from the control computer. At least one camera takes photographs of the object on the turntable based on commands from a camera control computer. A plurality of lights illuminate the object on the turntable based on commands from the control computer. The camera control computer controls the camera(s), and stores and processes the photographs.

Probable Assignee: BINDER MARAT

Earliest Publication Date: 20190110



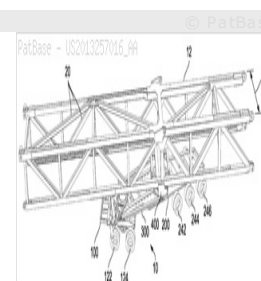
33) Family number: 54906873 (US2013257016A)

MECHANICALLY STEERED ARTICULATING DOLLY TRANSPORT SYSTEM

Abstract: Source: US2013257016A The present invention relates to a mechanically steered articulating dolly transport system for transporting large structures such as a drilling mast over the federal highway system. Generally, the invention relates to an articulating dolly system that utilizes a unique mechanical system for steering a first dolly with a path generated by the movement of the load held by the second dolly. More particularly, the invention provides a front dolly steered by a non-rotatable front steering frame, a rear dolly having a pivotally mounted turntable and a pair of steering links connected between the respective sides of the front steering frame and the turntable. The left steering link and the right steering link are located in a first plane. One or both of the turntable and the steering frame being located on a second plane that is not the first plane. Moment forces generated between plane one and plane two elastically deform one or both of the steering frame and the turntable to permit the transport system to make a left-hand or right-hand turn.

Probable Assignee: T AND T ENGINEERING SERVICES INC

Earliest Publication Date: 20131003



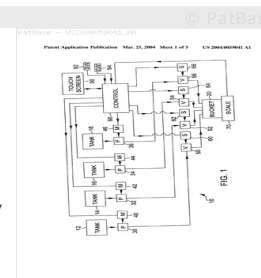
34) Family number: 20740723 (US2004059041A)

METHOD AND APPARATUS FOR PRODUCING AN AQUEOUS PAINT COMPOSITION FROM A PLURALITY OF PREMIXED COMPOSITIONS

Abstract: Source: US2004059041A The present invention is directed to the provision of premixed aqueous compositions which are used to provide a paint composition of varying finish characteristics at the point of sale. Thus, the merchant distributing the paint composition made from the subject premixed compositions need only maintain inventory of four compositions. The particular compositions which are the subject of the invention exhibit stable characteristics during storage in their respective reservoirs. The compositions include a pigment composition, a dispersant thickening agent, a high resin content binder, and a low resin content binder. The compositions are combined in differing amounts to produce paint compositions being suitable for either interior or exterior use and having differing sheens, quality levels, and color bases.

Probable Assignee: MICROBLEND INC

Earliest Publication Date: 20000629



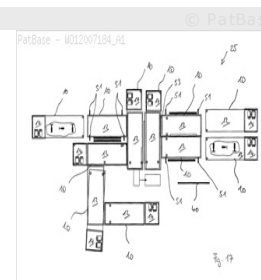
35) Family number: 48753983 (WO12007184A1)

VEHICLE OF MODULAR CONSTRUCTION

Abstract: The invention relates to a vehicle (10) of modular construction, namely with a chassis (11) and a trailer (12) which is fully detachable from the chassis (11), wherein the trailer (12) comprises at least one functional unit (13), the vehicle (10) being distinguished by being assigned a device (17) which is designed and set up in order to change the position of the trailer (12) relative to the chassis (11). Furthermore, the invention relates to a functional arrangement (25) formed from a plurality of vehicles.

Probable Assignee: DREHTAINER GMBH SPEZIAL CONTAINER UND FAHRZEUGBAU

Earliest Publication Date: 20110505



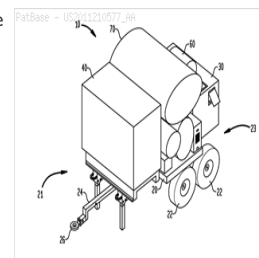
36) Family number: 49545042 (US2011210577A)

MOBILE SHELTER SYSTEM

Abstract: Source: US2011210577A A mobile shelter system having deployed and non-deployed configurations. The shelter system includes a towable trailer and a plurality of functional components for use in the deployed configuration. The functional components include a temperature control unit configured to output one or more of heated and cooled air, and an electric generator configured to provide power to the temperature control unit. In the non-deployed configuration, all of the functional components are positioned on the trailer and the system is configured to be towed over rugged terrain by an off-road vehicle.

Probable Assignee: MOBILE MEDICAL INT CORP

Earliest Publication Date: 20110901



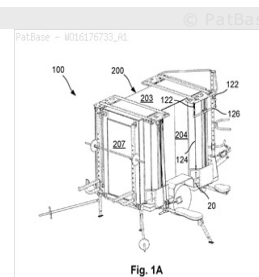
37) Family number: 63932941 (WO16176733A1)

MOBILE GYMNASIUM

Abstract: The present invention provides a mobile gymnasium, including a wheeled chassis, a frame upstanding from the chassis, and one or more pulleys fixed relative to the frame in use, the one or more pulleys guiding at least one cable connectable between a load and a grippable attachment to allow a user to perform a resistance exercise.

Probable Assignee: WEBB BRADLEY

Earliest Publication Date: 20161110



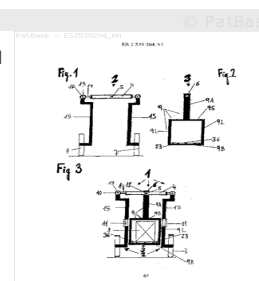
38) Family number: 59613317 (ES2539204B)

SISTEMA ESTRUCTURAL DE CHASIS ACCIONADO POR LA GRAVEDAD QUE IMPIDE LA INCLINACION DEL VEHICULO

Abstract: Source: ES2539204B Sistema estructural de chasis que por accion de la gravedad impide la inclinacion del vehiculo, caracterizado por disponer de un chasis dual modular que comprende un chasis primario externo colgador exoesqueletico de geometria variable que descansa sobre los elementos rodantes del vehiculo y otro chasis secundario interno colgante endoesqueletico rigido. Ambos chasis se unen en articulacion desde el centro de su respectiva parte superior y se abrazan en sus respectivos laterales sin fijarse a traves de una guias, lo cual imposibilita el desplazamiento del centro de la gravedad del cuerpo del vehiculo fuera del centro de la base del chasis interno en donde se deposita la carga y sobre la que se asienta el habitaculo, aun cuando el terreno supere los 45 degrees de inclinacion, y supone una restructuracion mecanica total de la arquitectura constructiva de los vehiculos con elementos rodantes laterales paralelos al chasis que tiene multiples aplicaciones.

Probable Assignee: LIZARI ILLARRAMENDI INIGO

Earliest Publication Date: 20150626



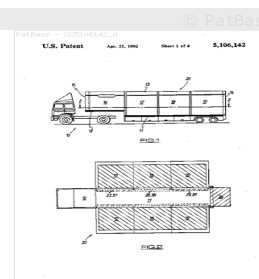
39) Family number: 3002644 (US5106142A)

MOBILE ACCOMMODATION UNIT

Abstract: Source: US5106142A A mobile accommodation unit comprises a vehicle body with side walls which pivot downwardly to provide an expanded floor area, having side-roof support members which pivot upwardly, and which carry canopy structures which unfold upwardly therefrom.

Probable Assignee: KAMEL SALEH ABDULLAH

Earliest Publication Date: 19910608



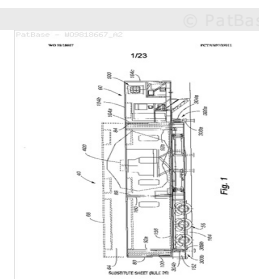
40) Family number: 11156229 (WO9818667A2)

EXPANDABLE AND RETRACTABLE MOBILE UNIT

Abstract: The expandable/retractable mobile unit of the present invention includes a number of features that are highly advantageous. The unit includes a roof assembly that can be elevated and a side extension assembly that can be moved outward on either side of the unit to provide for a significantly expanded enclosed volume. The unit can further include outrigger assemblies to laterally support the expanded structure, a self-leveling system to level the unit prior to expansion, and a full or partial motion flight simulator mounted within the unit.

Probable Assignee: TECHNIPLITE OF AMERICA INC

Earliest Publication Date: 19980507



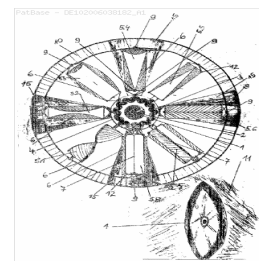
41) Family number: 41518773 (DE102006038182A1)

DEVICE SYSTEMS AND MECHANISMS FOR TURBINE TYPE A, TURBINE TYPE B, TURBINE-BOB TRANSPORTING UNIT, VEHICLE FLOATING AIRCRAFTS, HAS PROPELLER-RADIUS-ARM-RIM-WHEEL-CONTROL-NETWORK-MANAGEMENT-SYSTEMS

Abstract: The device systems and mechanisms has two independent building set groups systems for turbine type A, passive drive lane keeping mode, and for turbine type B an active aerodynamic vehicle floating aircraft, turbine-bob or such thing as general vehicle, particularly a propeller-radius arm-rim-wheel constructions (PS-FRK), which has a multifunctional-control-network-management-systems (MSNMS). In turbine type A the passive propulsion system with multiple wheelworks as vehicle and/or transportation units of all kinds and building measures e.g. passenger car.

Probable Assignee: KLOTZ WERNER

Earliest Publication Date: 20080228



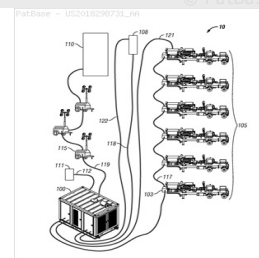
42) Family number: 71541675 (US2018298731A)

POWER SYSTEM AND METHOD

Abstract: Source: US2018298731A The application is directed to a power system that may be provided in a portable form and operationally configured for use at a work site as a single source of electric power, hydraulic power and pneumatic power for work site operations. In regard to hydraulic fracturing stimulation of a wellbore, the power system is operationally configured as the source of hydraulic power for transportable pumping units of a fracturing operation and for hydraulic power tools, as the source of pneumatic power for pneumatic power tools and as the source of electric power for electric power tools and electronic equipment at a well site.

Probable Assignee: MGB OILFIELD SOLUTIONS LLC

Earliest Publication Date: 20181018



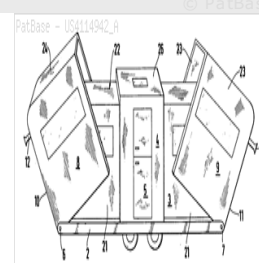
43) Family number: 1567426 (US4114942A)

EXPANDABLE HOUSE TRAILER STRUCTURE

Abstract: Source: US4114942A A shell structure is pivoted outwardly of a house trailer to enlarge the floor area. The shell structure can include three sides positioned over a cabin or portion of a cabin, and the shell structure is pivotal about a horizontal axis near the level of the floor of the cabin which is mounted on the trailer frame. When pivoted outwardly, a folding slidable or extensible roof can be positioned on the upper edges of the shell structure.

Probable Assignee: KARL WALTER GREINER TE AICHELBERG BONDSREPUBLIC DUTSLAND

Earliest Publication Date: 19770421



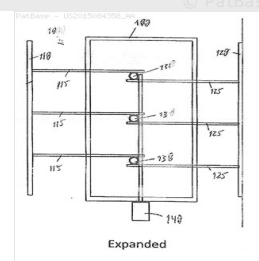
44) Family number: 58766292 (US2015084358A)

EXPANDABLE CHASSIS

Abstract: Source: US2015084358A An expandable vehicle chassis, said chassis comprising: a frame; at least two opposing support arms movably attached to said frame; a drive shaft attached to said frame and operably attached to each of said at least two opposing support arms; an actuator mechanically attached to said drive shaft; and a plurality of gear mechanisms generally disposed along an axis parallel to said drive shaft, said gear mechanisms operably attached to said drive shaft such that said actuator engages said drive shaft and said drive shaft engages said gear mechanisms to simultaneously move apart said at least two support arms in opposing directions.

Probable Assignee: FROST ROBERT

Earliest Publication Date: 20150326



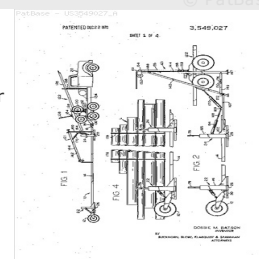
45) Family number: 735408 (US3549027A)

STORAGE AND LOADING APPARATUS FOR ELONGATED LOADS

Abstract: Source: GB1260161A 1,260,161. Loading and unloading trailers. LOGGING SYSTEMS Inc. 27 Jan., 1969 [23 Feb., 1968], No. 4465/69. Heading B8E. Logs L, Figs. 5, 6, or other elongate members, are loaded on to a trailer 122, Fig. 1, from a log storage and loading bunk 10 by extending the side members 22, 24 of the bunk, and with them cross-members 52, 53, Fig. 5, which support the logs, so that the trailer 122 may be backed under the load, after removing side stakes 136 to the position shown in Figs. 5, 6. The logs are now lowered on to the trailer by lowering the side and cross-members 22, 24, 52, 53, and the cross-members are pivoted through 90 degrees to lie longitudinally of the bunk 10, so that they do not foul the trailer as it is drawn out. The logs are loaded on to the bunk 10 by conventional means and the trailer 122, Fig. 1, is unloaded from the towing vehicle 20 by a 7 folding hoist 121, shown erected in Fig. 2 (not shown). The side members 22, 24 of the bunk 10 are raised and lowered by single or double-acting hydraulic rams. Road wheels 12 of the bunk 10 are raised and lowered by rams. Side members 22, 24 are adjustable along the length of a connecting member 14.

Probable Assignee: NELSON EQUIPMENT CO

Earliest Publication Date: 19701222



46) Family number: 52728705 (DE202012008080U1)

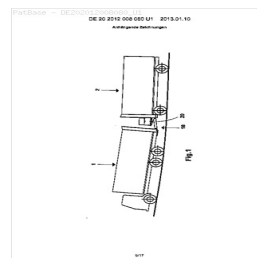
LKW-GESPANN UMFASSEND EIN ZUGFAHRZEUG UND MINDESTENS EINEN ZWEIACHSIGEN ANHAENGER, WOBEI ZUGFAHRZEUG UND ANHAENGER DURCH EINE VERBINDUNGSEINRICHTUNG MITEINANDER GEKUPPELT SIND
TRUCK TRAILER COMPRISING A TOWING VEHICLE AND AT LEAST ONE TRAILER AXLE, WHEREIN THE TOWING VEHICLE AND TRAILER ARE COUPLED BY A CONNECTING DEVICE (MACHINE TRANSLATION)

Abstract: Source: DE202012008080U1 LKW-Gespann umfassend ein Zugfahrzeug (1) und mindestens einen zweiachsigen Anhaenger (2), wobei Zugfahrzeug (1) und Anhaenger (2) durch eine Verbindungseinrichtung (10) miteinander gekuppelt sind, dadurch gekennzeichnet, dass zwischen Zugfahrzeug (1) und Anhaenger (2) eine Plattform (20) vorgesehen ist, wobei die Plattform (20) im Bereich der Stirnseite eines Fahrzeugs (1, 2) angeordnet ist, wobei die Verbindungseinrichtung (10) zwischen Anhaenger (2) und Zugfahrzeug (1) in Abhaengigkeit des Knickwinkels zwischen Anhaenger (2) und Zugfahrzeug verlaengerbar ist, wobei zwischen Anhaenger und Zugfahrzeug (1) eine Wetterschutzeinrichtung vorgesehen ist.

Machine translation: Lorry trailer comprising a towing vehicle (1) and at least one two-axle trailer (2), wherein the towing vehicle (1) and trailer (2) by a connecting means (10) are coupled together, characterized in that between the towing vehicle (1) and trailer (2) has a platform (20) is provided, wherein the platform (20) in the region of the front side of a vehicle (1, 2) is arranged, wherein the connecting means (10) between the trailer (2) and the towing vehicle (1) in dependence of the bending angle between trailer (2) and is extendable towing vehicle with trailer and towing vehicle between (1) a weather protection device is provided.

Probable Assignee: HUEBNER GMBH

Earliest Publication Date: 20121116



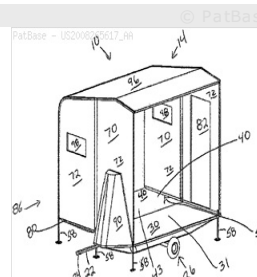
47) Family number: 42442616 (US2008265617A)

FOLD-OUT TRAILER

Abstract: Source: US2008265617A A fold-out trailer, including a trailer frame, the trailer frame having a tongue joined to a hitch, the tongue being joined to a stationary platform, and the stationary platform having a major surface defining a stationary plane, a plurality of side edges, a front edge and a back edge; at least one primary folding platform, the primary platform having a major surface defining a primary plane, an inside edge, an outside edge, a front edge, and a back edge, the inside edge of the primary platform being joined to one side edge of the stationary platform, the primary platform having a folded position; and a trunk, the trunk defined by the stationary platform, a front cover, and primary platforms when the primary platforms are in the folded position, the trunk having a generally triangular cross-section and being accessible via a back cover.

Probable Assignee: AWOL OUTDOORS INC

Earliest Publication Date: 20081030



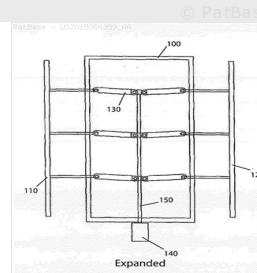
48) Family number: 58766295 (US2015084359A)

EXPANDABLE CHASSIS

Abstract: Source: US2015084359A An expandable vehicle chassis, said chassis comprising: a frame; at least two opposing support arms movably attached to said frame; a drive shaft attached to said frame and operably attached to each of said at least two opposing support arms; a linear actuator mechanically attached to said drive shaft; and at least one jack-like linkage system generally disposed along an axis parallel to said drive shaft, said linkage operably attached to said drive shaft such that said actuator engages said drive shaft and said drive shaft engages said linkage to simultaneously move apart said at least two support arms in opposing directions.

Probable Assignee: FROST ROBERT

Earliest Publication Date: 20150326



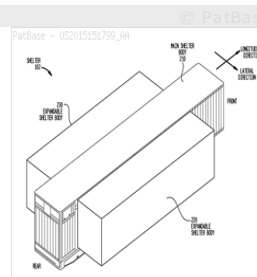
49) Family number: 59394007 (US2015151799A)

MOBILE STERILIZATION PROCESSING FACILITY

Abstract: Source: US2015151799A The present technology relates generally to an expandable shelter system, and more particularly to a mobile expandable shelter system with a sterilization processing facility. In embodiments, the shelter system comprises, for example, a mobile shelter comprising a decontamination area with a decontamination area air pressure, a sterilization area physically segregated from the decontamination area with a sterilization area air pressure; at least one wall configured to isolate the sterilization area from the decontamination area, and an HVAC system configured to keep decontamination area air pressure lower than sterilization area air pressure.

Probable Assignee: MOBILE MEDICAL INT CORP

Earliest Publication Date: 20150604



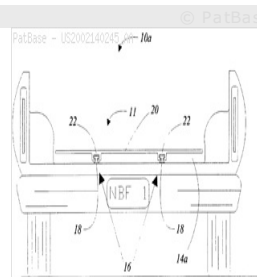
50) Family number: 15634519 (US2002140245A)

INTERLOCKING SLIDABLE ASSEMBLY USEFUL FOR A MOVABLE FLOOR EXTENSION FOR MOTOR VEHICLE CARGO AREAS

Abstract: Source: US2002140245A An interlocking slidable assembly useful for movable extensible platforms, such as a movable or sliding floor or plate extension used with the rear cargo areas of a motor vehicle. This assembly includes an elongated guide member such as a rail having a T-shaped segment and a follower member such as a generally C-shaped or U-shaped track. The track is configured to slidably interlock with the rail and has a surface slidably in contact with a surface of the rail so that the track can be moved to various positions along the rail. At least the surfaces of the track and rail that are in contact comprise materials, such as aluminum and ultra high molecular polyethylene, that provide, in combination, a relatively low coefficient of friction therebetween. The track and rail combination can further include a locking mechanism for the purpose of locking or securing the track at various predetermined locations along the rail. The track can have channel that slidably receives the rail and is oriented to face downwardly to minimize the amount of dirt and other debris that is collected than can clog the channel and thus make it more difficult to slide the track along the rail.

Probable Assignee: MINK AND ASSOCIATES LLC

Earliest Publication Date: 20010726



51) Family number: 6252059 (FR2653736A)

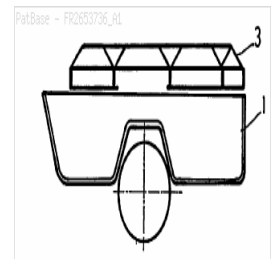
MULTI-FUNCTION INSUBMERSIBLE TRAILER WHICH CAN RAPIDLY ADAPT ITSELF TO VERY

DIVERSE TERRAIN

Abstract: The subject of the invention is a trailer. It is composed of a self-supporting body (1) with the adapted shape, of a direct or indirect drive motor using one or more tractive or propulsive members, of means making it possible to adjust the ground clearance, of means for joining one or more trailers together, of one or more compartments ensuring the buoyancy of the said trailer, of a double partitioned wall acting as a reservoir for liquid or as a compartment ensuring the buoyancy of a sliding rack (3) with a prop for gaining access to the load contained in the trailer, of a rigid unfoldable module forming a shelter stored on the bottom of the trailer without modifying its other characteristics. Multi-function trailer.

Probable Assignee: ARIFON PHILIPPE

Earliest Publication Date: 19910503



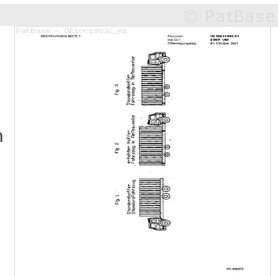
52) Family number: 15687247 (DE10019832A1)

AUXILIARY FRAME FOR SAFE ADJUSTMENT AND POSITIONING OF EXCHANGEABLE CONTAINER FOR LORRY

Abstract: For joining the exchangeable container (3) to the lorry the stop elements (13) are first fixed in a position matching the length of the container (3), the lorry is reversed until the stops (13) are touched. The hoist mechanism (6, 7) is manually activated, the frame (4, 5) positioned at the appropriate height and manually secured (12) to the container (3). The container (3) can be adjusted transversally by means of rollers (14), lowered, and moved into its final position. Several safety devices are activated and switched off during the process as required.

Probable Assignee: GOEPL FAHRZEUGBAU GMBH

Earliest Publication Date: 20011031



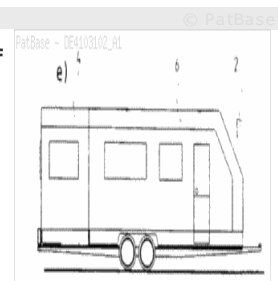
53) Family number: 8737307 (DE4103102A1)

MOBILE HOME OR TRAILER OF MODULAR DESIGN - INCORPORATES WHICH PROJECTS AT REAR OF CHASSIS HOLDING BODY EXTENSION

Abstract: Source: DE4103102A1 The mobile home or trailer (2) has a rear section (6) on wheels (8) which can be extended by a module (4). The module projects out at the back of the rear section on a platform (32) and the platform may be used to support a kitchen or toilet facility, or to carry items such as motor cycles or boats. USE/ADVANTAGE - Design of mobile home which allows the manufacturer to vary a basic concept in accordance with a range of specific requirements.

Probable Assignee: PITTINGER HELLMUT

Earliest Publication Date: 19920806



54) Family number: 58022397 (DE102013009333A1)

FAHRZEUGPLANE CAR PLANE (MACHINE TRANSLATION)

Abstract: Source: DE102013009333A1 Dreidimensionale Fahrzeugplane einer Zugmaschine mit Sattelaufleger, Anhaenger, Wechselcontainer mit einer auf einer Gestaengekonstruktion liegenden ersten Plane mit elastischen Abstandshaltern und einer ueberzogenen und durchsichtigen zweiten transluzenten und/oder transparenten Fahrzeugplane zum Schutz eines auswechselbaren sich automatisch von seiner Befestigung loesenden Mehrlagensystemes mehrerer unterschiedlicher Funktionsschichten zur Energie- und Lichterzeugung und/oder einem Flachthermischen System mit Kanaelen fuer gasfoermige oder fluessige Medien zum Kuehlen oder zum Waermen mit mindestens einem Beleuchtungssystem fuer Werbung, Signaleinrichtung, Pflanzenbeleuchtung. Kantenreflektoren und diffraktive Folien eines Mehrlagensystemes sorgen fuer eine bessere Energieausbeute bei den Solarzellen, sowie bei einer zweigeteilten Fahrzeugebene. Biegsame Akkumulatoren mit integrierten Kondensatoren sind ein- und ausrastbar in einer zwischen zwei Planen in einer elastischen Gitterstruktur mit Gehaeuse und einer daemmenden Filzmatte integriert. Verstaerkungsfaden sind Bestandteil der Schuss- und Kettfaeden einer oder mehrerer nebeneinander und/oder uebereinander bestehenden Planen, Abstandshaltern, Filze zur Daemmung, Mehrlagensysteme, Flachthermisches System die einzeln oder insgesamt mit Bindefaeden untereinander verbunden sind und ein Sensorfaden mit Aktuator sorgt fuer eine automatische Kontrolle der Verstaerkungsfaden. Ein Aktuator mit Formgedaechnis faehrt das Mehrlagensystem oder einen Teil zur Lichtverstaerkung ein und aus und stellt Elektrizitaet ueber einen Generator her der einem Zugmaschinen system zugefuehrt wird. Die gewonnene Energie wird dem Bordeigenen Energieverbrauch zum Betrieb einer Zugmaschine oder Anhaengers zugefuehrt, insbesondere die einer Kuehl- und Kaelteanlage. Three-dimensional vehicle-trailer of a tractor with semi-trailer, trailer, interchangeable containers with a person lying on a Gestaengekonstruktion first sheet with elastic spacers and an over extended and transparent second translucent and / or transparent tarpaulin to protect an interchangeable automatically from its mounting solving multi-layer system of several different functional layers for power and light generation and / or a flat thermal system with canals for gasfoermige or liquid media for Kuehlen or warm with at least one lighting system for advertising, signal equipment, plant lighting. Corner reflectors and diffractive films of a multilayer system provide for better energy efficiency for solar cells, as well as a two-part vehicle level. Flexible accumulators with integrated capacitors are switched on and integrated into a disengaged between two Tilts in a flexible lattice structure with a daemmenden Body and felt mat. Verstaerkungsfaden are part of the warp and weft yarns of one or more next to each other and / or by co-existing plan, spacers, felt for insulation, Mehrlagensysteme, flat thermal system are individually or collectively connected to Bindefaeden with each other and a sensor thread with actuator provides for an automatic control of Verstaerkungsfaden, An actuator shape-memory drives the multilayer system or part of Lichtverstaerkung on and off and makes electricity from a generator ago is supplied leads to an energy storage system the energy is the board's own supplied leads energy consumption for operating a tractor or trailer, especially a commercial angled and Kaelteanlage.

Probable Assignee: MUELLER HERMANN FRANK

Earliest Publication Date: 20141211

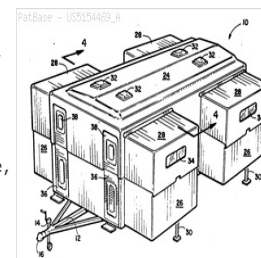
55) Family number: 8340624 (US5154469A)

MOBILE, MULTIUSE, EXPANDABLE ROOMS

Abstract: Source: US5154469A A unit is described comprising a towable wheeled undercarriage upon which is mounted a unit having four independent rooms, each of which is collapsed for towing and which can be greatly extended in volume both horizontally and vertically for use. The four rooms have a common corner at the center of the unit. Each room includes a slide out section slidable beyond the sides of the undercarriage and an inner section that is attached to the floor. The slide out sections can be extended simultaneously until their roofs lock to a main roof over the fixed inner room sections. All roofs and their attached, telescoped, upper room walls can be raised simultaneously by a single drive device, such as a hydraulic cylinder, at the center of the main roof at the common corner of the rooms. With the rooms extended and the vertically extending rooms telescoped up, four large, private, independent, solid-walled, rooms with separate exterior doors are created. The undercarriage is mounted on four wheels on two axles. The forward axle is longer than the rear axle, so that the wheels can be nested together to provide improved stability and ease of towing.

Probable Assignee: MORROW FLOYD L SAN DIEGO CALIF US

Earliest Publication Date: 19921013



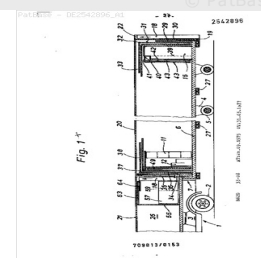
56) Family number: 15354829 (DE2542896A1)

VERGROESSERBARER FAHRZEUGAUFBAU FUER EIN STRASSENFAHRZEUG COLLAPSIBLE SHOW TRAILER WITH RIGID WALL PANELS - HAS LAYERS OF WALL COMPACTLY STORED BY TELESCOPING AXIALLY OF TRAILER LENGTH

Abstract: Source: DE2542896A1 (Claim 1) Patentans prtliche Fahrzeugaufbau fuer ein Strassenfahrzeug, der aus einem kom pekten Zustand sowohl in der Hoehe als auch in der Breite vergroesserbar ist, im kompakten Zustand von einem Haupt-Dach teil, einem Haupt-Bodenteil, zwei Haupt-Seitenwandteilen so wie Haupt-Vorderwand- und Haupt-Ruckwandteilen begrenzt ist und Zusatz-Dachteile sowie weitere Zusatz-Wandungsteile aufweist, wobei zur Vergrdsserung das Haupt-Dachteil nach oben bewegbar ist und die Haupt-Seitenwandteile seitlich nach aussen bewegbar sind, dadurch gikennmeichnet, dass in kompaktem Zustand jeweils eines der Zusatz-Dachteile (23) an einer der beiden Laengsseiten des HaupWDscheiteles (20) angelenkt (24) ist und parallel einem der beiden Haupt-Seitenwandteilen (25) nach unten haengt und zur Ver grdsserung das Haupt-Dachteil (20) insgesamt sowie unter Mitnahme des angelenkten Bereiches der Zusatz-Dachteile (23) anhebbar ist, Jeder der Haupt-Seitenwandteile (25) ins gesamt sowie unter Hochschwenken des zugeordneten Zusatz Dachteiles (23) nach aussen schiebbar ist, wobei zwischen den nach aussen geschobenen Haupt-Seitenwandteilen (25) und dem Haupt-Bodenteil (6) Je ein Zusatz-Bodenteil (9) an bringbar ist. The roof (20) of the trailer has rigid side panels (23) hinged along its side to form an extended roof when raised from a storage position in which the side panels form the sides of the trailer. L-shaped panels (25, 27) inside the trailer are slid outwards to form the sidewalls and side sections of floor. The centre of the trailer has a fixed floor (6) with hinged side panels (9) which fold down to extend the floor. The length of the trailer is extended telescopically, so that a small cinema, or exhibition hall is formed. The seating can be rigidly fixed to the floor, to stack when the vehicle is folded. The vehicle can be erected rapidly with unskilled labour and can include projection equipment and screen.

Probable Assignee: WEBER

Earliest Publication Date: 19770331



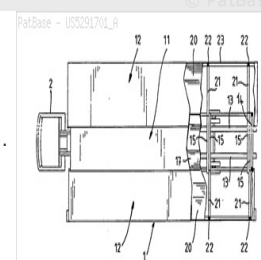
57) Family number: 3271801 (US5291701A)

EXTENDIBLE RIGID CONSTRUCTION

Abstract: Source: US5291701A PCT No. PCT/BE90/00005 Sec. 371 Date Nov. 14, 1990 Sec. 102(e) Date Nov. 14, 1990 PCT Filed Jan. 1, 1990 PCT Pub. No. WO90/08861 PCT Pub. Date Aug. 9, 1990.A structure comprising a first fixed unit and at least a second unit encompassing the fixed unit, whereby the second unit is located so as to be able to slide transversely relative to the axis of the fixed unit in order to extend the internal volume of the structure. The floor of the movable unit comprises an horizontal section and a pivotable section connected to the horizontal section by means of an horizontal hinge. The extendable structure can be moved in the form of a trailer or a semi-trailer or is transportable in the form of a container.

Probable Assignee: ESPACE MOBILE INTERNATIONAL S

Earliest Publication Date: 19900809



58) Family number: 70604546 (CO20170007266A)

CARROCERIA EXPANDIBLE Y ABATIBLE PARA VEHICULOS DE TRANSPORTE TERRESTRE EXPANDABLE AND COLLAPSIBLE BODY FOR LAND TRANSPORT VEHICLES (MACHINE TRANSLATION)

Abstract: Source: CO20170007266A La presente invencion proporciona una carroceria expandible y abatible para vehiculos de transporte terrestre caracterizada porque comprende una carroceria (1) formada por un paralelepipedo contenedor telescopico de dos niveles con dos cuerpos de desplazamiento longitudinal y cuatro cuerpos de desplazamiento angular; un cuerpo lateral expandible derecho (3); un cuerpo lateral expandible izquierdo (4); un cuerpo abatible superior derecho (5); un cuerpo abatible superior izquierdo (6); un cuerpo abatible inferior derecho (7); un cuerpo abatible inferior izquierdo (8); una seccion central de piso (14); un sistema de guia de estabilizacion, sincronizacion y potencia, conformado por brazos electricos (33), cilindros hidraulicos (34) y actuadores electricos (35); un sistema hidraulico; y un componente electronico que incluye un control inalambrico para el accionamiento de los diferentes movimientos de apertura de los cuerpos abatibles laterales, del piso, y de apertura de los cuerpos expandibles laterales The present invention provides an expandable and collapsible body for land transport vehicles characterized in that it comprises a body (1) formed by a parallelepiped container telescopic two levels with two bodies of longitudinal displacement and four bodies of angular displacement; a lateral body (3) expandable; a body (4); a folding body left expandable side upper right (5); a folding body (6); a folding body lower left upper right (7); a folding body lower left (8); a central section of the floor (14); a guide system of stabilization, timing, and power, formed by arms (33), hydraulic cylinders (34) and electric actuators (35); a hydraulic system; and an electronic component that includes a wireless control for driving The different movements of opening of the folding side, the floor, and opening of the side expandable bodies

Probable Assignee: DIRECCION NAC DE ESCUELAS DE LA POLICIA NAC DE COLOMBIA

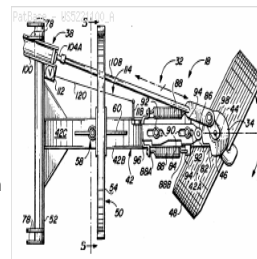
Earliest Publication Date: 20180719

59) Family number: 11198556 (US5221100A)

TRAILER FRAME WITH STABILIZED CASTER SWIVEL

PatBase

Abstract: Source: US5221100A A cargo trailer for towing behind another vehicle has a cargo container platform and a stabilized caster swivel assembly supporting the cargo container platform. The swivel assembly includes an elongated frame, a caster wheel on a swivel member being rotatably mounted about a vertical axis to a rear end of the frame, a cam member mounted on the swivel member for rotation therewith, a centering mechanism coupled to the cam member, a hydraulic stabilizing mechanism coupled to the swivel member, and a hydraulic control circuit mounted on the frame. The control circuit has a valve in flow communication with the hydraulic stabilizing mechanism and actuatable between a restricted flow position causing the stabilizing mechanism to resist movement of the caster wheel in either direction beyond maximum allowable angular limits away from a centered position aligned with a forward direction of travel and a second unrestricted flow condition allowing the stabilizing mechanism to permit movement of the caster wheel in either direction away from the centered position beyond the maximum limits. The trailer also has a bounce motion dampening assembly including an elongated spring connected at one end to the frame and an inelastic elongated flexible belt connected at one end to the spring and at an opposite end to the towing vehicle for transferring the load therefrom to the stabilizing swivel assembly frame.

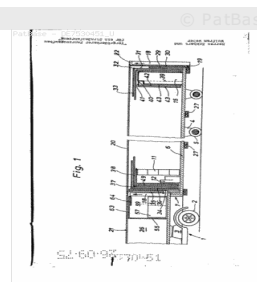


Probable Assignee: MCNUTT DARRELL A

Earliest Publication Date: 19930622

60) Family number: 16445902 (DE7530451U)

Abstract: Source: DE7530451U (Claim 1) 1. Fahrzeugaufbau fuer ein Strassenfahrzeug, der aus einem kompakten Zustand sowohl in der Hoehe als auch in der Breite vergroesserbar ist, im kompakten Zustand von einem Haupt-Dachteil, einem Haupt-Bodenteil, zwei Haupt-Seitenwandteilen sowie Haupt-Vorderwand- und Haupt-Rueckwandteilen begrenzt ist und Zusatz-Dachteile sowie weitere Zusatz-Wandungsteile aufweist, wobei zur Vergroesserung das Haupt-Dachteil nach oben bewegbar ist und die Haupt-Seitenwandteile seitlich nach aussen bewegbar sind, dadurch gekennzeichnet, dass in kompaktem Zustand jeweils eines der Zusatz-Dachteile (23) in einer der beiden Laengsseiten des Haupt-Dachteiles (20) angelenkt (24) ist und parallel zu einem der beiden Haupt-Seitenwandteilen (25) nach unten haengt und zur Vergroesserung das Haupt-Dachteil (20) insgesamt sowie unter Mitnahme des angelenkten Bereiches der Zusatz-Dachteile (23) anhebbar ist, jeder der Haupt-Seitenwandteile (25) insgesamt sowie unter Hochschwenken des zugeordneten ZusatzDachteiles (23) nach aussen schiebbar ist, wobei zwischen den nach aussen geschobenen Haupt-Seitenwandteilen (25) und dem Haupt-Bodenteil (6) je ein Zusatz-Bodenteil (9) anbringbar ist.



Machine translation: (Claim 1) 1 Vehicle design for a road vehicle, which can be enlarged from a compact state, both in height and in width, in the compact state of a main roof section, a main-floor unit, two main side wall sections and the main front wall and main- Rueckwandteilen is limited and has additional roof sections and other auxiliary wall portions, whereby the larger picture, the main roof part is movable upward and the main side wall portions are laterally outwardly movable, characterized in that in a compact state, each one of the additional roof sections (23) in either alongside the main roof portion (20) hinged (24), and hangs parallel to one of the two main side wall parts (25) down and to the larger picture, the main roof portion (20) as a whole and taking along the hinged area of additional roof parts (23) can be raised, each of the main side wall parts (25) as a whole and under upward pivoting of the associated additional roof part (23) to the outside is pushed, distinguishing between the outside pushed the main side wall parts (25) and the main- bottom part (6) one extra-base part (9) can be attached.

Probable Assignee: WEBER WOLFRAM 8500 NUERNBERG DE

Earliest Publication Date: 19831229

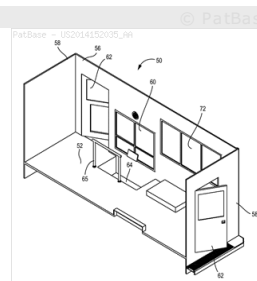
61) Family number: 56602099 (US2014152035A)

DROPPED FLOOR PUBLIC INTERFACE TRANSACTION AREA FOR RETAIL VEHICLES

Abstract: Source: US2014152035A An enclosure for a vehicle includes a wall that has an opening therein, a floor, and a lowered portion that is recessed into the floor in an area of the floor proximate the opening in the wall.

Probable Assignee: SPARTAN MOTORS INC

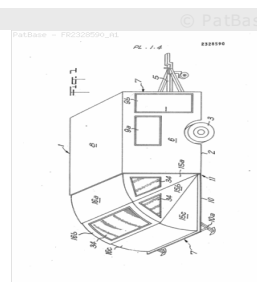
Earliest Publication Date: 20140604



62) Family number: 3636546 (FR2328590A)

REMORQUE D'AUTOMOBILE EXTENSIBLE EXTENDABLE TRAILER FOR CAR - HAS UNFOLDING PANELS HINGED TO TRAILER CHASSIS WITH REAR MOUNTED SUPPORT LEGS

Abstract: Source: FR2328590A (Claim 1) 1 - Remorque d'automobile extensible, caracterisee en ce que l'un au moins de ses cotes est constitue au moins en partie par un panneau rigide monte pivotant sur la structure porteuse de la remorque a laquelle il est relie par des jeux de segments de parois telescopiques qui sont susceptibles de pivoter autour de l'articulation du panneau sur la structure pour etre soit imbriques les uns dans les autres parallelement aux parois correspondantes de la remorque, soit disposes exterieurement a ces parois et hors du gabarit normal de la remorque afin de delimitier avec le panneau ouvert un volume additionnel au volume principal de la remorque. The extendable trailer is for a car or caravan. It has a box shaped trailer (1) with a chassis (2) carried on an axle (3) with drawgear. The chassis has two longitudinal and two transverse walls all supporting the roof (8). The rear wall is made up of a moving panel (10 joined to the frame by hinges (11). There are further panels (15a) (15b) to complete the side structure and end panels (16a) (16b) (16c) which can slide over each other and under the roof. The whole assembly can be unfolded to extend the caravan volume and when rear props (10a) can be lowered for support.

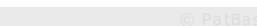


Probable Assignee: CIRIER BERNARD

Earliest Publication Date: 19770520

63) Family number: 74260145 (US2019135161A)

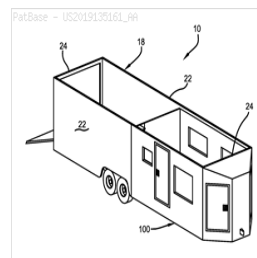
ADJUSTABLE WALL AND FLOOR SYSTEM



Abstract: Source: US2019135161A An room assembly that expands the interior space in a vehicle. The room assembly comprises an expandable room comprising an adjustable floor panel component, an adjustable wall panel component, and a track system for moving the adjustable floor panel component and the adjustable wall panel component between a nested and an expanded position. The track system comprises a corner component comprising a floor engaging plate, a wall engaging plate connected to the floor engaging plate, and a rail extending from both plates.

Probable Assignee: ANGELOW JUSTIN

Earliest Publication Date: 20190509



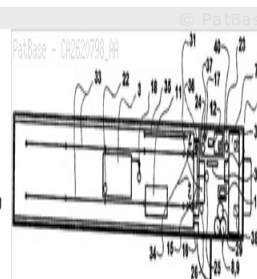
64) Family number: 43648129 (CA2620798A)

A SYSTEM AND APPARATUS FOR THE PRESERVATION AND TRANSPORTATION OF PRODUCTS INCLUDING LIVE AQUATIC SPECIES

Abstract: Source: CA2620798A A moveable vehicle such as a truck, railway carriage, or the like is structured and dimensioned to enable the transportation of products including live aquatic species such as fish in a refrigerated condition. The vehicle includes insulating and heat exchange layers which when utilized to transport live aquatic species may maintain them in a dormant state by temperature controls within the refrigeration system. A water spraying assembly provides a humidity and oxygen level for disposing of waste and also enables the spraying of fog to provide effective humidity between spraying cycles. Any existing animal waste is treated in the water and a recirculation or closed loop system is provided. A product storage area facilitates loading and unloading and a separate storage room may be provided to house the systems equipment or optionally may be attached to the vehicle. It is contemplated that when refrigerated products which do not develop waste are transported in that event use of at least components of the water and filtration system may be selectively discarded as the operator deems appropriate for effective utilization of the system.

Probable Assignee: 3225335 NOVA SCOTIA LTD

Earliest Publication Date: 20090811



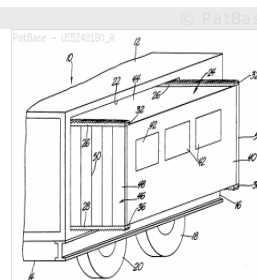
65) Family number: 11299270 (US5248180A)

EXPANDABLE ENCLOSURE

Abstract: Source: US5248180A Disclosed is an expandable enclosure suitable for a cargo vehicle, a passenger vehicle, a stationary shelter or a stationary storage facility. An expansion unit is outwardly translatable from the enclosure by racks fixed to the unit. The expansion unit has first uprights fixed between the racks and second uprights fixed to the enclosure but having a sliding connection with the racks. Third uprights are disposed between the first and second uprights and are slidingly connected between the racks. The expansion unit may be mounted to the enclosure by the gears alone or may additionally be supported by a cantilever beam when the expansion unit is being deployed.

Probable Assignee: US ARMY

Earliest Publication Date: 19930928



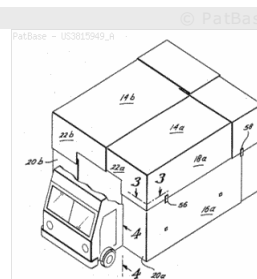
66) Family number: 1078029 (US3815949A)

EXPANSIBLE MOBILE HOME

Abstract: Source: US3815949A An expansible and contractible mobile home, camper or trailer for personal or commercial use has interfitting floor, roof and wall sections, and additional interfitting end floor, roof and wall sections, which move relatively to one another so that it is expansible and contractible in three directions, that is, height, width and length, thereby making it compact and readily transportable yet expandable into a relatively spacious and commodious mobile home, camper or trailer. Means are provided for guidedly moving the sections into expanded and contracted positions, and for releasably securing or clamping the sections in contracted and expanded position.

Probable Assignee: ULERT I

Earliest Publication Date: 19740611



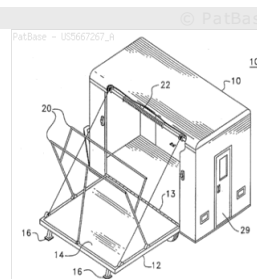
67) Family number: 13224670 (US5667267A)

MOBILE FITNESS CENTER

Abstract: Source: US5667267A Mobile fitness centers are provided which include a trailer having at least one expandable side portion to increase the floor surface of the trailer to improve the overall workout space and lessen the crowded feeling of a mobile unit. The fitness centers of this invention provide completely portable training facilities which can be equipped with almost as much equipment as provided by some gymnasiums or stationary fitness centers.

Probable Assignee: TALUCCI JOHN K

Earliest Publication Date: 19970916



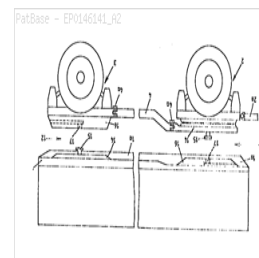
68) Family number: 5769448 (EP0146141A2)

FRAME CONSTRUCTION FOR A TRAILER.

Abstract: The invention relates to a frame construction for vehicle trailers including semi-trailers with interchangeable superstructure, in particular dump trailers, in which the bridge frame (1) of the superstructure is constructed as an intrinsically stiff carrying frame and can be detachably connected by means of rapid-action couplings (11,12) to a front axle frame (2) or a semi-trailer plate (42) and a rear axle frame (3), the front axle frame (2) or the semi-trailer plate (42) and the rear axle frame (3) being connectable to one another preferably by means of a rod-type linkage or a non-load-bearing, light-weight connecting frame (4).

Probable Assignee: KREIN WALTER

Earliest Publication Date: 19850626



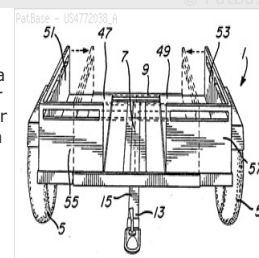
69) Family number: 2504791 (US4772038A)

EXPANDABLE TRAILER

Abstract: Source: US4772038A Trailer of the type which can be widened out or retracted when required, made of a frame on which there is mounted a wheel assembly. The frame comprises a traction bar, a rear transverse member fixedly mounted at one end of the traction bar, a front traction member which is parallel to the rear traction member and is also fixedly mounted on the traction bar, along the latter, short of its opposed end. The portion of the traction bar between the front transverse member and the opposed end thereof constitutes a traction rod. A movable framework is disposed on both sides of the traction bar between the rear and front transverse members. The wheels of the trailer are mounted on the movable frameworks, which can laterally extend thereby widening out the trailer, or they can be retracted in the narrow position of the trailer. This trailer can easily be attached to a four- or three-wheeler of the sporting type and, when it is widened out, it can be used to carry the four- or three-wheelers. It is then merely necessary to attach it to a car or any other vehicle of the same type.

Probable Assignee: MACDONALD NELSON

Earliest Publication Date: 19871117



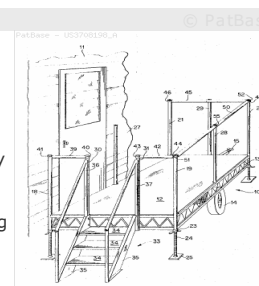
70) Family number: 7152067 (US3708198A)

CONVERTIBLE TRAILER, PORCH AND CAMPER

Abstract: Source: US3708198A A wheeled platform having vertically adjustable leveling standards at each corner for supporting the platform in stationary, level position, spaced columns projecting upward from the edges of the platform; top rails removably supported upon the top ends of the columns; and a detachable step assembly to permit the platform to function as a portable porch for a mobile home or trailer. Side rails removably and adjustably supported upon the columns beneath the top rails in vertically spaced relationship also provide containing walls, to permit the platform to function as a utility trailer with the leveling standards raised and the step assembly removed. Some of the columns on both sides of the platform are provided with upper tubular sockets to receive the depending legs of a canopy frame for supporting a canopy above the platform to function as a camp in a vehicle.

Probable Assignee: COONS G

Earliest Publication Date: 19730102



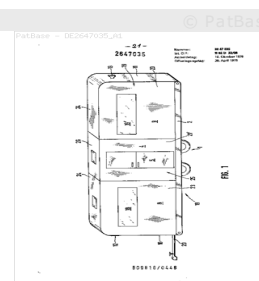
71) Family number: 1617497 (DE2647035A1)

AUFBAU FUER FAHRZEUGE CARAVAN WITH EXTENDING BODY - HAS HINGED END SECTIONS PIVOTED ON ENDS OF CHASSIS AND SLIDING ROOF SECTIONS

Abstract: Source: DE2647035A1) Aufbau fuer Fahrzeuge, vorzugsweise Wohnwagen, mit ver groesserbarer Grundflaeche, d a d u r c h a e k e n n z e i c h n e t, dass er einen Huellaufbau (e; 9) auf weist, der aus einer ersten Stellung, in der er einen festen Aufbauteil (3) von oben her an drei Seiten ueber- greift, in einer vertikalen Schwenkebene um etwa 90° auswaerts in eine zweite Stellung schwenkbar ist, in der er die Grundflaeche des Aufbaus vergroessert 2, Aufbau nach Anspruch 1q dadurch gekennzeichnet, dass der Huellaufbau (8t 9) um eine waagerechte, relativ zum fe sten Aufbauteil (3) stationaere Schwenkachse (6, 7) schwenk bar ist 3 Aufbau nach Anspruch 1 oder 2, dadurch gekennzeichnet, daP an zwei einander gegenueberliegenden Seiten des festen Aufbauteils (3) je ein Huellaufbau (8; 9) vorgesehen ist 4 Aufbau nach Anspruch 3, dadurch gekennzeichnet, dass die beiden Huellaufbauten in ihren ersten Stellungen gegeneinander anliegen, 5 Aufbau nach Anspruch 3 oder 4, dadurch gekennzeichnet, dass die beiden Huellaufbauten (8; 9) in den ersten Stellungen gegen ein Zwischenstueck (4) des festen Aufbaus teils 13) anliegen 6 Aufbau nach einem der vorhergehenden Ansprueche, da durch gekennzeichnet, dass der Huellaufbau (8; 9) in der ersten Stellung ueber Dichtflaechen gegen mindestens ei nen anderen Fahrzeugteil (2, 4) anliegt 8 Aufbau nach einem der vorhergehenden Ansprueche, da durch gekennzeichnet, dass der Huellaufbau (8; 9) in beiden Stellungen ungefaehr dieselbe Hoehe wie der f- ste Aufbauteil (3, 4) hat 9 Aufbau nach Anspruch 5, dadurch gekennzeichnet, dass in der ersten Stellung des Huellaufbaus greater than 8; 9) seine Aussenseite mit der Aussenseite des Zwischenstueckes (4) fluchtet 10 Aufbau nach einem der vorhergehenden Ansprueche, da durch gekennzeichnet, dass die Hoehe der seitlichen Waende des Huellaufbaus in seiner zweiten Stellung der Hoehe der Seitenwaende des festen Aufbauteils (3) unge- faehr entspricht 11 Aufbau nach einem der vorhergehenden Ansprueche, dadurch gekennzeichnet, dass am Huellaufbau (8; 9) verstellbare Podenstuetzen (12, 13) angeordnet sind 1. The caravan has the end sections fitted with hinged extensions (23, 24) which can be swung outwards through right angles to increase the length of the van. Sliding or flexible roof sections completes the extension so that a maximum usable space is obtained. The caravan is supported on a chassis (2) with the hinges at the ends. The pivot action can be manual or by hydraulic or electric servos.

Probable Assignee: GREINER KARL WALTER

Earliest Publication Date: 19780420



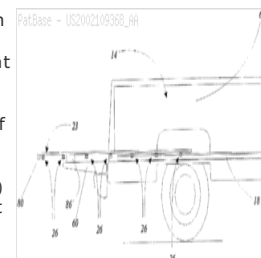
72) Family number: 28238455 (US2002109368A)

SLIDABLE ASSEMBLY WITH INTERLOCKING GUIDE AND ROTATABLE MEMBERS USEFUL FOR MOVABLE MOTOR VEHICLE FLOORS AND EXTENSIONS

Abstract: Source: US2002109368A An interlocking slidable assembly useful for movable extensible platforms, such as a movable or sliding floor or plate extension used with the rear cargo areas of a motor vehicle such as a pickup truck. This assembly includes a first and second plurality of rotatable members spaced apart along parallel axes that slidably interlock with the guide members of the rail or rails. Each of the rotatable members is rotatable about a substantially vertical rotational axis and slidably engages the respective guide member of the rail or rails. One of the guide members or the rotatable members have a recess in the periphery thereof to slidably receive the other of the guide and rotatable members. Because the rotatable members rotate about vertical axes, there is better and more even distribution of weight on the weight-bearing surfaces that makes it easier for slidable movement and decreases the amount of wear. In addition, because the recesses in the rotatable members (or the guide members) are oriented to open horizontally (rather than vertically), dirt and other debris will have less of a tendency to collect in the recesses and thus inhibit slidable movement.

Probable Assignee: MINK AND ASSOCIATES LLC

Earliest Publication Date: 20020815



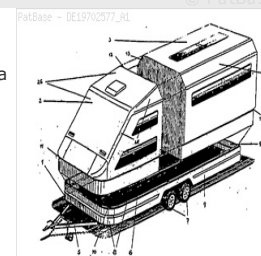
73) Family number: 15468824 (DE19702577A1)

MODULAR BODYWORK FOR MOTOR VEHICLE TRAILER

Abstract: Source: DE19702577A1 The vehicle trailer has a base frame (4) with a wheeled load bed (1) formed as a base module with a bodywork frame (8) mounted on it. The bed can receive additional combinable modules particularly for living or working in (2,3). Each module is received in the bodywork frame, guided over its lower support surface. Each base module is formed with an outer plan matching the inner dimension of the bodywork frame. The bodywork frame can be made as one piece and can have foldable edge panels (9) which can be placed together.

Probable Assignee: HANNEBAUER JUERGEN

Earliest Publication Date: 19970731



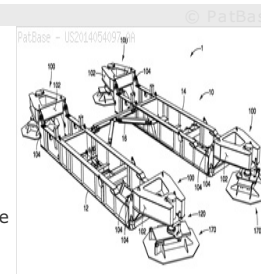
74) Family number: 54591661 (US2014054097A)

DRILL RIG MOVING SYSTEM

Abstract: Source: US2014054097A The present invention discloses a drill rig relocation system. Lift frames are provided at opposite ends of a base box of a drill rig substructure. A lift cylinder and bearing mat assembly are rotatably connected beneath the lift frame. The bearing mat assemblies may be rotated to the desired direction for moving the drill rig. The lift cylinders are then expanded, placing the bearing mat assemblies onto the ground and lifting the base boxes and drill rig off the ground. The drill rig is supported on linear sleeve bearings slideably mounted in the bearing mat assemblies. Translation cylinders on the bearing mats expanded to move the rig by translating the linear sleeve bearings along the shafts. After the lift cylinder expands to place the bearing mat on the ground, the translation cylinders are retracted, providing the linear bearing with the full length of the shaft for the next movement.

Probable Assignee: T AND T ENGINEERING SERVICES INC

Earliest Publication Date: 20130822



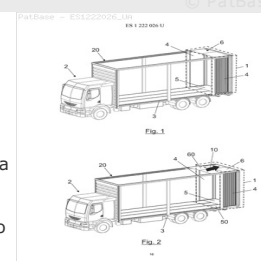
75) Family number: 72617120 (ES1222026U)

ACCESORIO PARA CHASIS Y CHASIS CON CAPACIDAD DE CARGA VARIABLE ACCESSORY FOR CHASSIS AND CHASSIS WITH VARIABLE LOAD CAPACITY (MACHINE TRANSLATION)

Abstract: Source: ES1222026U 1. Accesorio de almacenamiento variable para su acople a un chasis disponiendo dicho chasis de un receptor estructural unido al chasis estando caracterizado el accesorio porque comprende: - un elemento de acople destinado a unirse con capacidad de deslizamiento a lo largo del receptor estructural de manera telescópica; - dos vigas longitudinales situadas a ambos lados del elemento de acople; - dos pilares unidos a las vigas longitudinales siendo dichos pilares perpendiculares a las vigas longitudinales y definiendo la altura y la anchura del accesorio; en el que el elemento de acople dispone de una posición de expansión en la que el elemento de acople se desplaza longitudinalmente alejando los pilares del chasis y una posición de contracción en la que el elemento de acople se desplaza longitudinalmente acercando los pilares al chasis. 1. Variable storage accessory for coupling to a chassis having said chassis of a structural receiver attached to the chassis being characterized in that the accessory comprises: - a coupling element intended to join slidably along the structural receiver in a telescopic manner; - two longitudinal beams located on both sides of the coupling element; - two pillars attached to the longitudinal beams of said pillars perpendicular to the longitudinal beams and defining the height and the width of the attachment; wherein the coupling element has an expanded position in which the coupling element moves longitudinally moving the pillars of the chassis and a position in which The coupling element is moved longitudinally by approaching the pillars to the chassis.

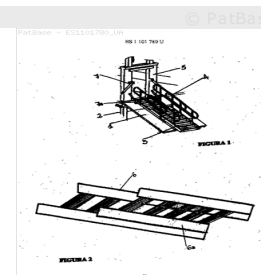
Probable Assignee: EFITRANS EFFICIENT LOGISTICS S L

Earliest Publication Date: 20181218



76) Family number: 55887097 (ES1101780Y)

ESCALERA METALICA ESCAMOTEABLE PARA ESCENARIOS MOVILES CONSTRUIDOS SOBRE ESTRUCTURAS RODANTES DE APERTURA HIDRAULICA



Abstract: Source: ES1101780U 1. Escalera metalica escamoteable para escenarios moviles contruidos sobre estructuras rodantes de apertura hidraulica, e integrada en la propia estructura del escenario, de las conformadas por un elemento de escalera metalica (2) de acero y aluminio con una longitud fija y una inclinacion regulable en grados, estando fijada a una base metalica (1), caracterizada por estar constituida por escalones (3) de chapa antideslizante con luces de seguridad y pasamanos (4) extensibles, teniendo un sistema de apertura y cierre mediante dos cilindros hidraulicos (7) que permiten en su cierre sea plegado el elemento de escalera metalica (2) en el hueco (8) existente en los pilares (5) del escenario movil que se recoge y convierte en pared del remolque o semi-remolque escamoteandose la escalera. 2. Escalera metalica escamoteable para escenarios moviles contruidos sobre estructuras rodantes de apertura hidraulica, segun la reivindicacion primera caracterizada, porque el elemento de escalera metalica (2) presenta adicionalmente un tramo de escalera ampliable de extension hidraulica (6) mediante dos cilindros hidraulicos (7a) y un tramo de escalera de extension manual (6a). 3. Escalera metalica escamoteable para escenarios moviles contruidos sobre estructuras rodantes de apertura hidraulica, segun la reivindicacion primera caracterizada, porque la recogida del elemento de escalera metalica (2) para escamoteado puede realizarse adicionalmente plegando los escalones (3) de la escalera metalica. 1. Metal retractable staircase for mobile scenarios built on rolling opening hydraulic structures, and integrated into the structure of the scenario, the element formed by a metal staircase (2) steel and aluminum with a fixed length and adjustable tilt in degrees, being fixed to a metal base (1), characterized because it consists of steps (3) slip plate with safety lights and handrail (4) extending, by having a system of opening and closing by means of two hydraulic cylinders (7) that allow for closure member being folded metal staircase (2) in the recess (8) existing on the pillars (5) of the mobile scenario that is collected and converted into wall trailer or semi-trailer escamoteandose the stairs. February. Retractable metal staircase for mobile scenarios built on rolling opening hydraulic structures, according to the first vindication characterized, in that the metal staircase (2) additionally has a stretch of hydraulic extendable extension ladder (6) by two hydraulic cylinders (7a) and a flight of stairs manual extension (6a). March. Retractable metal staircase for mobile scenarios built on rolling opening hydraulic structures, according to the first characterized vindication because collecting metal ladder element (2) to be further retracted performed folding steps (3) of the metal staircase.

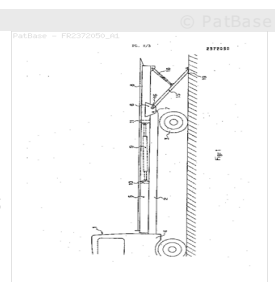
Probable Assignee: INFANTE TENREIRO RAMIRO

Earliest Publication Date: 20140303

77) Family number: 3604683 (FR2372050A)

PROCEDE DE CHARGEMENT DE VEHICULE ET DISPOSITIF DE LEVAGE POUR PLATEAU DE CHARGEMENT DE VEHICULE VEHICLE REAR LOADING AND LIFTING ARRANGEMENT - HAS REAR EXTENDED TO SWING DOWN AND ALLOW LOAD TO SLIDE TO GROUND

Abstract: Source: FR2372050A La presente invention concerne un procede de chargement de vehicule et un dispositif de levage pour plateau de chargement de vehicule. Un tel dispositif comprend: un plateau de chargement 8 susceptible de se deplacer longitudinalement sous l'action d'un verin 9 par rapport a un bati support 5 monte sur le chassis 2 du vehicule de facon a pouvoir pivoter dans un plan vertical autour d'un axe 7, une bequille articulee 15 etant raliee au bati support 5 par un verin de relevage 18. Application notamment aux vehicules de depannage et de transport de vehicules. A lorry with a special rear loading system has the usual chassis (2). Apart from joining the cab (4) and rear wheels (3) it has a structure (5) on top. This can be shifted rearwards and the rear part can tilt around an axis (7). A loading platform (8) is mounted on top. There is a double action ram (9) between a transverse member (10) on the support (5) and another transverse member (11) on the platform (8). From a trunnion (6) is a member (15) which s hinged and can swing down to the ground. This can be controlled by another ram (18) hinged to the member (15) and at its other end. This permits sliding and tilting of the loading platform.



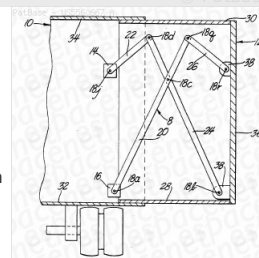
Probable Assignee: JIGE REMORQUES IND

Earliest Publication Date: 19780623

78) Family number: 12795884 (US5560667A)

EXPANDABLE LINKAGE

Abstract: Source: US5560667A An expansion linkage effects nearly perfectly straight translation of an expansion module relative to a trailer. The linkage has two relatively longer cross arms pivoted together at their intersection. One cross arm is additionally pivoted at its mount to the trailer and the other cross arm is additionally pivoted at its mount to the module. At opposite ends from the mounts, the cross arms have relatively shorter linkage arms pivoted thereto. The linkage arm pivoted to the trailer-mounted cross arm also pivotally connects to the module, and the linkage arm pivoted to the module-mounted cross arm also pivotally connects to the trailer. The intersection of the cross arms is $+E, \frac{2}{3} + EE$ to $+E, \frac{3}{4} + EE$ the distance from pivot axes at the cross arms' mount ends to pivot axes at the cross arms' opposite ends.



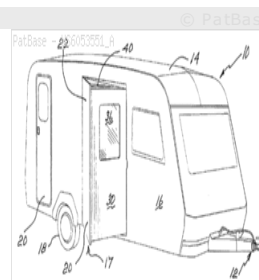
Probable Assignee: US ARMY

Earliest Publication Date: 19961001

79) Family number: 12210867 (US6053551A)

EXTENSION PIVOT "SWING PORCH"

Abstract: Source: US6053551A A swing-out section for a recreational vehicle such as a mobile home which has an exterior wall, a roof, and a floor, the swing-out section being moveable between open and closed positions with a first end of a wall section defining the swing-out section being pivotably connected to an adjacent portion of the exterior wall of the recreational vehicle, the swing-out section also having a roof section and a floor section, the arrangement being such that the swing-out section can be moved into and out of position by hand.



Probable Assignee: 836682 ALBERTA INC

Earliest Publication Date: 20000425

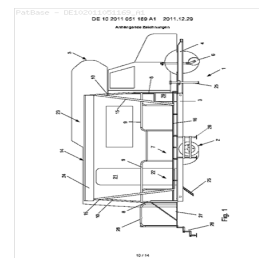
80) Family number: 50263382 (DE102011051169A1)

TRANSPORT TRAILER FOR VEHICLE, PARTICULARLY FOR PASSENGER VEHICLE OR WATER VEHICLE, HAS PIVOTING, DRIVABLE LOADING AREA PLACED AT CHASSIS WITH UNDER FLOOR CHASSIS, WHERE LOADING AREA IS PIVOTED RELATIVE TO TOWING BAR AROUND TRANSVERSE AXIS

Abstract: The transport trailer (1) has a pivoting, drivable loading area (7) placed at a chassis (3) with an under floor chassis, where the loading area is pivoted relative to a towing bar (4) around a transverse axis, particularly vehicle axle of the transport trailer. A lining tube (8) is mounted at each corner of the loading area. A platform (27) mounted at the assigned lining tube is arranged at the rear side in a pivoting manner for transportation.

Probable Assignee: WALTER LIMBACH GMBH

Earliest Publication Date: 20111229



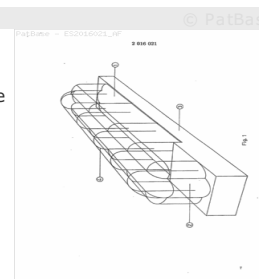
81) Family number: 5353153 (ES2016021A)

MOVABLE RADIOFUSION STUDIO

Abstract: This is a semitrailer (hauled by a mass-produced tractor head), whose design comprises three zones: the high zone intended for the control cabin (for audio and video); and two lobe zones at the same level, one as set (platform) for making all types of programmes or performances, and the other for production thereof. Its physical structure, forms and materials used differ from other vehicles of identical use. As principle novelties there are the use of curved polycarbonate for the bodywork and the elevation and mechanisation of the unit by means of pneumatic pistons. It has a basic application in radiofusion and also as a promotional or technical-support element for any audiovisual means, company or business requiring contact with the public.

Probable Assignee: OLMO MAROTE JAVIER

Earliest Publication Date: 19901001



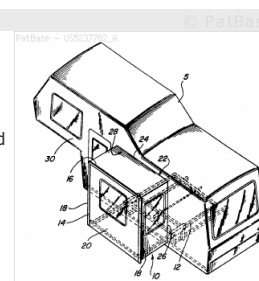
82) Family number: 11264030 (US5237782A)

SLIDABLE ROOM ASSEMBLY FOR RECREATIONAL VEHICLES

Abstract: Source: US5237782A A slidable room having an improved slide-out assembly and an improved liquid sealing assembly at an interface between an opening in the recreational vehicle and an exterior wall of the room is provided. The slide-out assembly includes a stationary main frame assembly having a pair of support members held in a fixed parallel relationship, a single transmission mechanism fixedly interposed between the support members, and a slidable support assembly slidably retained in the pair of support members for extending and contracting the room. The liquid sealing assembly is disposed around the interface between the slidable room and the opening in the recreational vehicle's exterior wall. A first flange member is affixed to a top edge and side edges of the slidable room's exterior wall. A second complementary flange member is affixed to a top edge and side edges of the opening in the recreational vehicle. The flange members include adjacent protrusions for inhibiting the flow of liquid therebetween when the slidable room is fully retracted into the recreational vehicle.

Probable Assignee: FLEETWOOD RV INC

Earliest Publication Date: 19930824



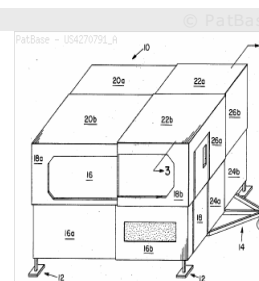
83) Family number: 8243942 (US4270791A)

EXPANSIBLE ENCLOSURE

Abstract: Source: US4270791A An expansible enclosure, suitable for use as a camper, trailer, display booth or display counter, having a box-like structure with six sides mutually interconnected at their respective peripheries, with telescoping frame facilities for expanding and contracting the enclosure by varying the distance between opposed sides, allowing expansion and contraction in three dimensions while maintaining substantial rigidity and integrity of the enclosure.

Probable Assignee: TANN ROBERT L

Earliest Publication Date: 19810602



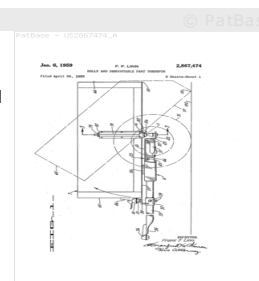
84) Family number: 22786411 (US2867474A)

DOLLY AND DEMOUNTABLE PART THEREFOR

Abstract: Source: US2867474A (Claim 1) 1. A dolly and demountable part-therefor comprising, a wheel supported chassis, a plurality of mounting -balls .5 carried by said chassis, and a plurality of expandable and contractable ball grasping units carried by said part and positioned for detachable engagement with said balls and each having a manually engageable and displaceable operative handle for effecting quick attachment to and detachment from one of said balls, said balls and units being designed for swivel action, and a pair of said balls and units being arranged to provide rotative displacement of said part on said chassis about an axis connecting said pair of balls.

Probable Assignee: LINN FRANK F

Earliest Publication Date: 19590106



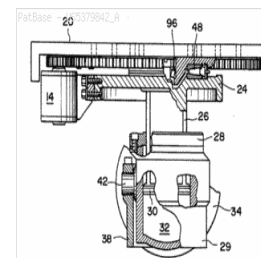
85) Family number: 11762888 (US5379842A)

MATERIAL-HANDLING EQUIPMENT

Abstract: Source: US5379842A A multi-wheeled transport vehicle which is capable of crossing uneven terrain without torquing the load, including modular wheel units permitting a low profile and means to equalize the load between the individual wheel units.

Probable Assignee: TERRY MEL

PatBase - US5379842_A



86) Family number: 74357268 (US2019143874A)

MOBILE CELLULAR TRANSMISSION SYSTEM

Abstract: Source: US2019143874A A transport system includes a trailer with a transport bed adapted to receive a shelter having substantially rectangular base with approximate bottom dimensions of a standard International Organization for Standardization (ISO) freight container; first and second wheeled transport assembly positioned on the trailer, wherein each transport assembly is adapted to connect to each end of the shelter to move the shelter on or off the trailer; and base locking units at each corner of the bed to be secured to a shelter.

Probable Assignee: DOMINGUEZ EDDY

Earliest Publication Date: 20190516



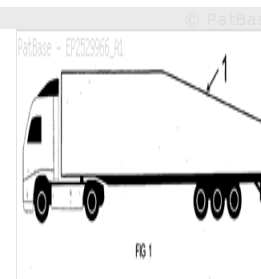
87) Family number: 52531480 (EP2529966A1)

VARIABLE AND OPTIMIZED AERO-SHAPE TRUCK BOX

Abstract: Source: EP2529966A1 A box for a rigid track, for a semi-trailer track, or for a trailer truck, or for a trailer truck, the box having rigid walls or canvas walls, the box being refrigerated or not, characterized in that the roof (1) can move vertically and at the same time can change its shape along the length of the box.

Probable Assignee: TORRE SAN JOSE RAFAEL DE

Earliest Publication Date: 20121205



88) Family number: 471514 (DE1800199A1)

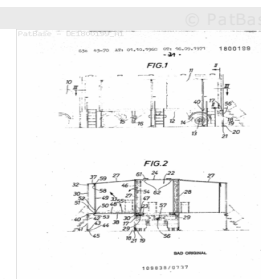
FAHRBARE KABINE MIT VERGROESSERBARER GRUNDFLAECHE MOBILE CABIN WITH ENLARGEABLE BASE AREA (MACHINE TRANSLATION)

Abstract: Source: DE1800199A1 (Claim 1) 1. Fahrbare Kabine mit einem auf die Ladeflaeche eines Fahrzeuges beschaenkten, aus Bodenteil, Stirnwandteil und Dach bestehenden Kabinen-Mittelteil, in dessen seitliche Oeffnungen jeweils ein Seitenwandteil, ein seitliches Bodenteil, zwei seitliche Stirnwandteile und ein seitliches Dachteil derart einschwenkbar sind, dass die seitlichen Dachteile die uebrigen Teile in der Fahrlage nach aussen zu abdecken, g e k e n n z e i c h n e t durch je ein zwischen das seitlichen Stirnwandteile (46(absenkbares Bodenteil (48) und je ein ueber Scharniere (50) mit seiner freien Kante verbundenes, einteiliges Seitenwandteil (49), das ueber Anschlaege (Winkel 49) und Verriegelungen (58) gegenueber dem Dachteil verriegelbar ist.

Machine translation: (Claim 1) 1 Cab with one limited to the loading area of a vehicle, from the bottom part, front wall section and roof of the existing cabin center section, in its lateral openings, respectively, a side wall portion, a lateral bottom portion, two lateral end wall portions and a side roof parts are so pivoted to the side roof parts of the other parts in the driving position to the outside cover to, characterized by each one between the lateral end wall parts (46 (lowerable bottom portion (48) and one about hinges (50) with its free edge connected, one-piece side wall part (49), the attack: (angle 49) and locks (58) opposite the roof part is locked.

Probable Assignee: PETER BAUER FAHRZEUGFABRIK

Earliest Publication Date: 19710916



89) Family number: 17726404 (DE29501994U1)

COMBINABLE OF MULTI-RANGE KITE-DRIVINGMOBILELY

Abstract: Source: DE29501994U1 (Claim 1) 1. Kombinierbares Mehrbereichs Flugdrachen- f ahrmobil, dass als zwei bis vierraederiges(ueberall meh rl eistendes) variables Ausbau bzw. Kombinations-modell- e,mit vorne, an den Seiten und hinten erweiterten Steuersystemen eine erweiterte und sicherere Nutzung bei Luft, Dampf, Wasser und Naturgewa i ten ist,

Machine translation: (Claim 1) 1 Combinable multiple range kites f ahrmobil that as two to four-wheeled (everywhere meh rl eistendes) variable expansion or combination model · e, with the front, sides and rear extended control systems an enhanced and safer use of air, steam, water and Naturgewa ith is

Probable Assignee: WESTERWELLER KURT WILHELM FRAN

Earliest Publication Date: 19960718

