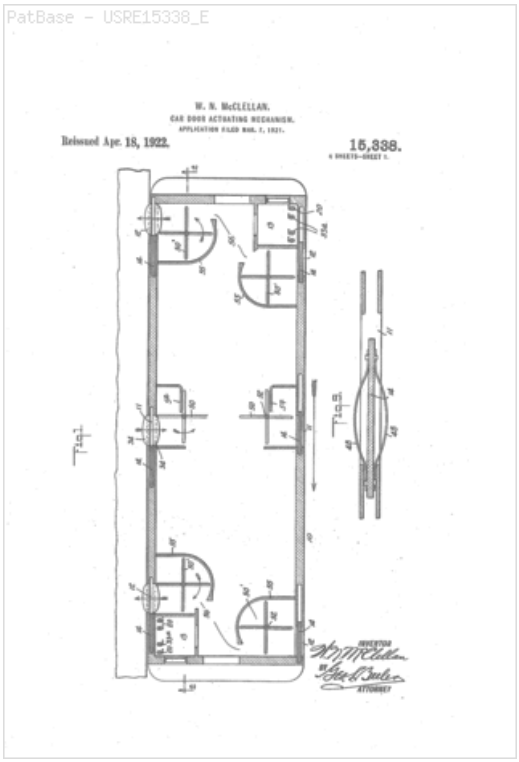
PatBase - Search results 30 May 2017
Search query (1): [SP]: The invention relates to a two-way personalised elevated urban transport (TUEP) system, designed for a large transport capacity, which is suspended on a series of posts, without interfering with the surface traffic of vehicles and passers-by. The invention is characterised in that it has a continuous series of autonomous cabins which circulate on a tubular track suspended by static cables hanging between the posts. The system comprises elevated stations for the passengers, providing access to the suspended cabins which are moved by autonomous and independent electric motors rotating a powered block that goes round on the upper hump of a horizontal tubular track which is elevated or inclined according to the topography of the terrain. Said transport system is characterised in that each of the cabins, which only hold two passengers, goes directly to a station of destination wherein it branches off from the main flow towards a station, which means that it does not have to hold up the main flow of cabins, hence reducing the time required for the journey in spite of circulating at a low or moderate speed.
Results: 21

Search history

Search 1: [SP]: The invention relates to a two-way personalised elevated urban transport (TUEP) system, designed for a large transport capacity, which is suspended on a series of posts, without interfering with the surface traffic of vehicles and passers-by. The invention is characterised in that it has a continuous series of autonomous cabins which circulate on a tubular track suspended by static cables hanging between the posts. The system comprises elevated stations for the passengers, providing access to the suspended cabins which are moved by autonomous and independent electric motors rotating a powered block that goes round on the upper hump of a horizontal tubular track which is elevated or inclined according to the topography of the terrain. Said transport system is characterised in that each of the cabins, which only hold two passengers, goes directly to a station of destination wherein it branches off from the main flow towards a station, which means that it does not have to hold up the main flow of cabins, hence reducing the time required for the journey in spite of circulating at a low or moderate speed. (Results 21)

1) Family number: 24065351 (US15338 E)

Classifications:
International (IPC 8-9): E05F15/06 E05F15/56 (Advanced/Invention); E05F15/00 (Core/Invention)
CPC: E05F15/565 E05Y2900/51
European: E05F15/06B P05Y900/510
US: 105/341.5



Family:

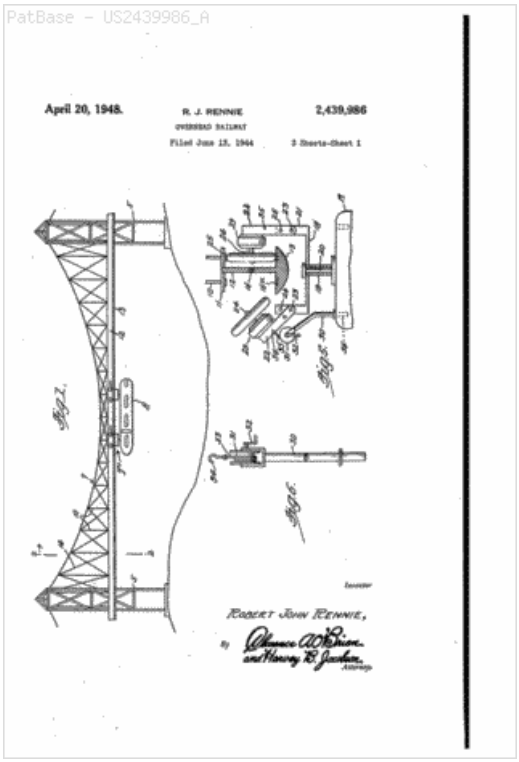
Publication number	Publication date	Application number	Application date
USRE15338 E	19220418		00000000

2) Family number: 22522421 (US2439986A)

Title: OVERHEAD RAILWAY

Abstract: Source: US2439986A 1. In an overhead railway embodying a suspended monorail having a vertical web and op.. positely projecting bottom flanges, a car having an elongated body, vertical spindles fixed to the top of said body near the front and rear ends thereof, a truck swivelled on each spindle, each truck having spaced independent front and rear pairs of upright wheel mounts, the wheel mounts of each pair being arranged at opposite sides of the monorail, each wheel mount including an upper section hinged to swing laterally toward' and from the monorail, a wheel journaled on the upper section of each wheel mount and arranged to ride on the adjacent bottom flange of the monorail when said upper section is swung toward the monorail to a vertical position and to be disengaged from said monorail when said upper section is swung away from the monorail to an inclined position, and means to releasably secure the upper section of each wheel mount in a vertical position.
Classifications:
International (IPC 8-9): B61B3/02 (Advanced/Invention); B61B3/00 (Core/Invention)

International (IPC 1-7): B61B3/02
CPC: B61B3/02
European: B61B3/02
US: 104/93 105/154 191/23A



Family:

Publication number	Publication date	Application number	Application date
US2439986 A	19480420	US19440540019	19440613

Priority:
US19440540019 19440613

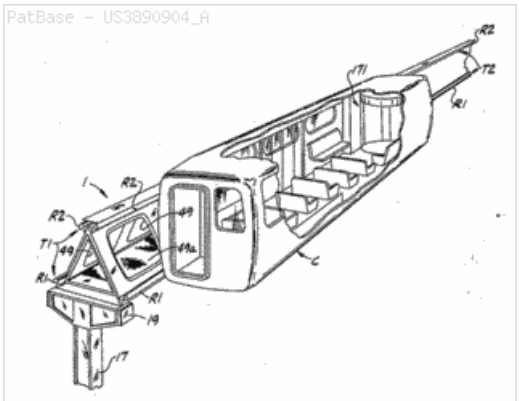
Probable Assignee: JOHN RENNIE ROBERT
Assignee(s): (std)**:** JOHN RENNIE ROBERT
Inventor(s): (std)**:** JOHN RENNIE ROBERT
Inventor(s): RENNIE ROBERT JOHN

3) Family number: 1148337 (US3890904A)

Title: Railway system

Abstract: Source: US3890904A A railway system comprising a beam supported at spaced intervals along its length and having tracks extending longitudinally thereof at opposite sides, with cars adapted to travel on the tracks in paths along opposite sides of the beam. Eack track comprises a lower rail and an upper rail extending longitudinally of the beam at the respective side of the beam. Each car has lower wheels traveling on the head of the lower rail and an outrigger extending laterally from the car to the upper rail having a traveling tension-transferring interconnection with the head of the upper rail for holding the car upright. The heads of the two rails of each track lie in a plane inclined to the longitudinal vertical plane of the beam with substantially all of the beam below the said inclined plane. The system as disclosed further involves a special switching arrangement for the tracks, a special station feature based on the provision of an elevator in the car, and a special expansion joint between rail ends.

Classifications:
International (IPC 8-9): B61B5/02 E01B25/00 (Advanced/Invention)
International (IPC 1-7): E01B25/08 E01B25/20
CPC: B61B5/02 E01B25/00 Y02T30/30
European: B61B5/02 E01B25/00 Y02T30/30
US: 104/118 104/121 104/130.04 105/141 105/144 105/147 238/227



Family:

Publication number	Publication date	Application number	Application date
US3890904 A	19750624	US19730402299	19731001

Priority:
US19730402299 19731001

Probable Assignee: EDWARDS LAWRENCE K
Assignee(s): (std)**:** EDWARDS LAWRENCE K

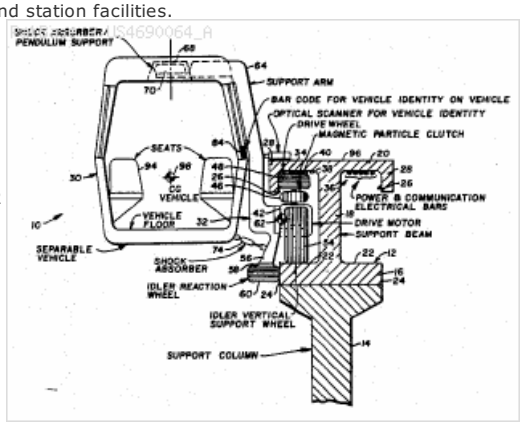
Inventor(s): (std)**:** EDWARDS LAWRENCE K

4) Family number: 5369253 (US4690064A)

Title: Side-mounted monorail transportation system

Abstract: Source: US4690064A A monorail beam is provided with a lower, upwardly-facing support surface, a lower, laterally-facing support surface and an upper, medially-facing support surface (relative to the support beam). Vehicles are hangingly supported, pendulum-like, from davit-like cantilevering arms of support trucks having wheels which run on or act against the base support surfaces so that they run along the side or sides of the beam. The beam may be elevated on columns, surface mounted, or depressed in tunnels. By preference, the vehicles' bodies are detachable from the trucks, and the heaviest air-conditioning components are mounted on the trucks rather than on the bodies. Power transmission and automatic control systems are described, as are switching systems and station facilities.

Classifications:
International (IPC 8-9): B61B1/02 B61B13/04 B61B5/00 B61D1/00 B61D17/04 B61D27/00 E01B25/08 E01B25/12 (Advanced/Invention); B61B1/00 B61B13/04 B61B5/00 B61D1/00 B61D17/04 B61D27/00 E01B25/00 (Core/Invention)
International (IPC 1-7): B61B13/04 B61C13/04 E01B25/08
CPC: B61B1/02 B61B5/00 B61B13/04 B61D1/00 B61D17/045 B61D27/0018 E01B25/08 E01B25/12
European: B61B1/02 B61B13/04 B61B5/00 B61D1/00 B61D17/04B2 B61D27/00B E01B25/08 E01B25/12
US: 104/119 104/124 104/28 104/35 105/144 105/348 105/453 52/726 52/726.2



Family:

Publication number	Publication date	Application number	Application date
US4690064 A	19870901	US19860865022	19860520

Priority:
US19860865022 19860520

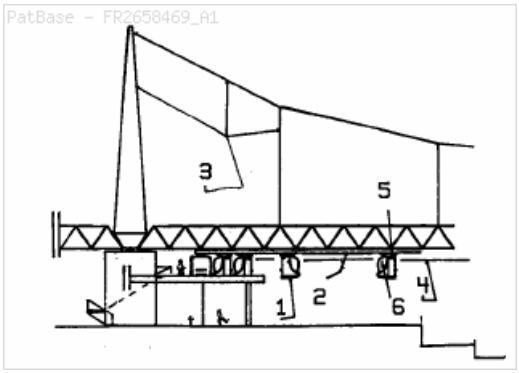
Probable Assignee: OWEN WILLIAM E
Assignee(s): (std)**:** OWEN WILLIAM E
Inventor(s): (std)**:** OWEN WILLIAM E

5) Family number: 6276040 (FR2658469A)

Title: Device for transporting pedestrians, particularly within towns

Abstract: Source: FR2658469A The invention relates to a panoramic, unrhythmical device for transporting pedestrians which is very flexible in terms of implantation: uncluttered ground, slopes or narrow streets, or combined overground/underground path. It consists of cabins (cars) with cupolas (1) suspended by carriages rolling on rigid rails (2) themselves fixed between stations under a specific structure (3) with support points which are possibly very far apart, of a driving cable (4) brought conventionally up to speed in a station along rails, of an autonomous movement auxiliary (5) on the carriage and of a removable cable grip (6). A passenger enters a car with an open door in a station, he presses the start button which closes the door, engages the auxiliary system bringing the car (1) up to the speed of the cable (4), couples cable and carriage, halts the auxiliary thrust. Before arrival, a sensor on a track triggers off the reverse manoeuvres. The device is particularly intended for towns.

Classifications:
International (IPC 8-9): B61B3/00 (Advanced/Invention); B61B3/00 (Core/Invention)
International (IPC 1-7): B61B10/02 B61B3/00
CPC: B61B3/00
European: B61B3/00



Family:

Publication number	Publication date	Application number	Application date
FR2658469 A1	19910823	FR19900002224	19900219

Priority:
FR19900002224 19900219

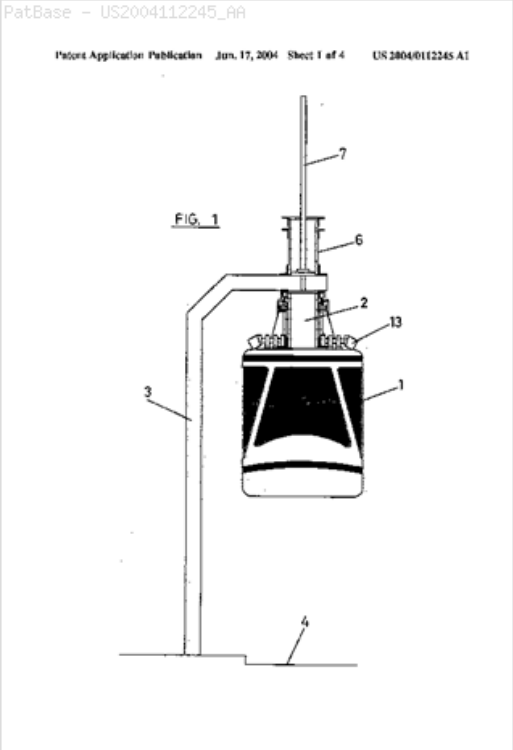
Probable Assignee: PERRIER JEAN
Assignee(s): (std)**:** PERRIER JEAN
Inventor(s): (std)**:** GEORGES PERRIER JEAN
Inventor(s): PERRIER JEAN GEORGES

6) Family number: 23973287 (US2004112245A)

Title: ELEVATED TRAIN

Abstract: Source: US2004112245A Elevated train comprised of one or more wagons (1) that move suspended from a rail (2) or the like. This rail is provided at the train stops with at least two transverse gaps that determine a segment (5) from which said train is suspended, with this segment in turn suspended from elevation means (7) that allow its displacement in a vertical sense together with said train between an upper position for circulation and a bottom one in which it rests on or is next to the ground.

Classifications:
International (IPC 8-9): B61B1/00 B61B13/04 B61B3/00 B61B3/02 E01B25/22 (Advanced/Invention);
B61B1/00 B61B13/04 B61B3/00 E01B25/00 (Core/Invention)
International (IPC 1-7): B61B1/00 B61B13/04 B61B3/00 E01B25/00 E01B25/22
CPC: B61B3/00 B61B13/04 E01B25/22
European: B61B13/04 B61B3/00 E01B25/22
US: 104/122 104/123 104/130.04 104/130.06 104/28 104/93



Family:

Publication number	Publication date	Application number	Application date
BRPI0207634 A	20040302	BR2002PI07634	20020322
CN1308175 C	20070404	CN20028006688	20020322
CN1498175 A	20040519	CN20028006688	20020322
DE60201341 D1	20041028	DE20026001341	20020322
DE60201341 T2	20051006	DE20026001341T	20020322
EP1375286 A1	20040102	EP20020722293	20020322
EP1375286 B1	20040922	EP20020722293	20020322
ES2182687 AA	20030301	ES20010000735	20010329
ES2182687 BA	20040401	ES20010000735	20010329
IN01531CN2003 A	20051125	IN2003CN01531	20030929
IN224884 B	20081205	IN2003CN01531	20030929
MXPA03008791 A1	20041203	MX2003PA08791	20020322
RU2003125356 A	20050127	RU20030125356	20020322
RU2321510 C2	20080410	RU20030125356	20020322
US2004112245 AA	20040617	US20030473558	20031121
US6925941 BB	20050809	US20030473558	20031121
WO02079013 A1	20021010	WO2002ES00149	20020322

Priority:

ES20010000735 20010329 WO2002ES00149 20020322 WO2002US00149 20020322

Probable Assignee: CORTAZAR DOMINGO BENGOA SAEZ DE

Assignee(s): (std): BENGOA SAEHS DE KORTASAR DOMIN ; BENGOA SAEZ DE CORTAZAR DOMING ; CORTAZAR DOMINGO BENGOA SAEZ ; CORTAZAR DOMINGO BENGOA SAEZ D ; DOMINGO BENGOA SAEZ DE CORTAZA

Assignee(s): CORTAZAR DOMINGO BENGOA SAEZ DE ; DOMINGO BENGOA SAEZ CORTAZAR ; DOMINGO BENGOA SAEZ DE CORTAZAR ; BENGOA SAEZ DE CORTAZAR DOMINGO ; BENGOA SAEHS DE KORTASAR DOMINGO

Inventor(s): (std): BENGOA SAEZ DE CORTAZAR DOMING ; BENGOA SAEZ DE CORTAZAR DOMINGO ; CORTAZAR DOMINGO BENGOA SAEZ ; CORTAZAR DOMINGO BENGOA SAEZ D ; DOMINGO BENGOA SAEZ CORTAZAR ; DOMINGO BENGOA SAEZ DE CORTAZA ; BENGOA SAEHS DE KORTASAR DOMIN

Inventor(s): DOMINGO BENGOA SAEZ DE CORTAZAR ; BENGOA SAEHS DE KORTASAR DOMINGO ; CORTAZAR DOMINGO BENGOA SAEZ DE ; DAVILA BAZ ANGEL

Agent(s): OSTROLENK FABER GERB AND SOFFEN LLP

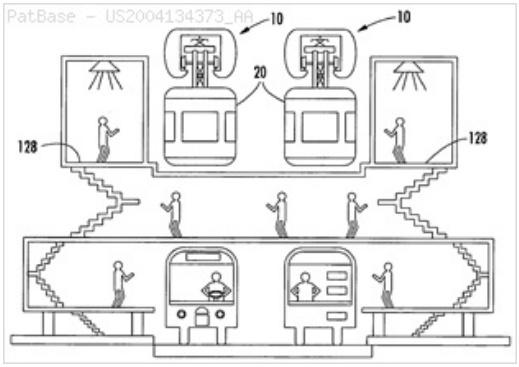
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK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

7) Family number: 30513301 (US2004134373A)

Title: OVERHEAD SUSPENDED TRANSPORTATION SYSTEM AND METHOD

Abstract: Source: US2004134373A An overhead transportation system includes a support structure positioning a running surface above ground level for operating a truck along the running surface. A car body is suspended from a beam or chassis carried by the truck in such a manner to place a center of rotation of the car body above the chassis and truck. Improved performance on curves is provided through superelevation of the tracks upon which fixed steel wheel assemblies of the truck ride.

Classifications:
International (IPC 8-9): B61B13/04 B61B3/00 B61F5/22 E01B27/00 (Advanced/Invention); E01B27/00 (Core/Invention)
International (IPC 1-7): B61B13/04 B61B3/00 B61F5/22 B64G E01B27/00
CPC: B61B13/04 B61F5/22 E01B25/22
European: B61B13/04 B61F5/22 E01B25/22
US: 104/14 104/89 104/89P 105/148



Family:

Publication number	Publication date	Application number	Application date
AU2003301303 AA	20040504	AU20030301303	20031014
AU2003301303 AH	20040504	AU20030301303	20031014
EP1558816 A2	20050803	EP20030809000	20031014
EP1558816 A4	20051221	EP20030809000	20031014
HK1078623 A3	20060317	HK20060101350	20060127
US2004134373 AA	20040715	US20030685300	20031014
US2007017410 AA	20070125	US20060456695	20060711
US7124692 BB	20061024	US20030685300	20031014
WO04035383 A2	20040429	WO2003US32477	20031014
WO04035383 A3	20041125	WO2003US32477	20031014

Priority:
US20020418872P 20021015 US20030685300 20031014 US20060456695 20060711 WO2003US32477 20031014

Probable Assignee: SKY TRAIN CORP

Assignee(s): (std): SKY TRAIN CORP

Assignee(s): GUENTHER KARL ; P E WILFRED SERGEANT ; PE WILFRED SERGEANT

Inventor(s): (std): GUENTHER KARL ; KARL GUENTHER ; P E WILFRED SERGEANT ; SERGEANT P E WILFRED ; SERGEANT WILFRED ; SERGEANT WILFRED P ; WILFRED SERGEANT P E ; WILFRED SERGEANT PE

Inventor(s): SERGEANT WILFRED PE ; SERGEANT PE ; SERGEANT PE WILFRED ; PE WILFRED SERGEANT ; SERGEANT P E

Agent(s): CARL M NAPOLITANO PHD ALLEN DYER DOPPELT MILBRATH AND GILCHRIST PA; ALLEN DYER DOPPELT MILBRATH AND GILCHRIST PA

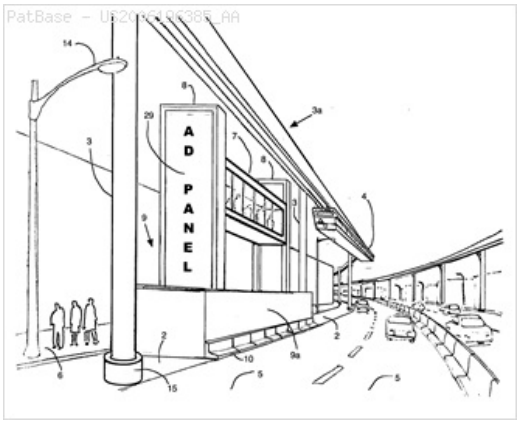
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC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

8) Family number: 33319939 (US2006196385A)

Title: ELEVATED BUS RAPID TRANSIT SYSTEM

Abstract: Source: US2006196385A An elevated public transit bus system that increases the passenger capacity and decreases the passenger trip time of a fixed route bus service traveling in traffic on a city street to provide a high capacity rapid transit system. The high capacity buses are suspended above the motor vehicle traffic lanes by a support structure constructed in the lane adjacent to the public sidewalk. The propulsion system of the electrically powered buses run in a box beam from which the transit passenger cabins are suspended. The beams guide the buses along the existing fixed route service that is being upgraded to the carrying capacity of an elevated rail rapid transit system. The bus stops or lift stations of the elevated buses for passenger pick up and drop off is also constructed in the road lane next to the sidewalk. The lift stations house an enclosed movable platform that lifts passengers from sidewalk level to the floor level of the suspended bus. The high capacity rapid bus system makes efficient use of city streets by significantly increasing the capacity of persons per lane per hour use over that of the private vehicle. This public transportation enhancement reduces traffic congestion, energy consumption, and air pollution by making bus service more attractive, and by increasing the capacity of the street to carry more transit users without taking away business dependant road parking spaces or public sidewalk space.

Classifications:
International (IPC 8-9): B61B1/00 B61B12/04 B61D47/00 (Advanced/Invention); B61B1/00 B61B12/00 B61D47/00 (Core/Invention)
CPC: B61B1/02 B61B3/02
European: B61B1/02 B61B3/02
US: 104/124 105/425



Family:

Publication number	Publication date	Application number	Application date
US2006196385 AA	20060907	US20050075356	20050307
US7246559 BB	20070724	US20050075356	20050307

Priority:

US20050075356 20050307

Probable Assignee: SKY TROLLEY INC

Assignee(s): (std)**:** SKY TROLLEY INC ; STROMBERG RONALD E

Inventor(s): (std)**:** STROMBERG RONALD E

Inventor(s): STROMBERG RONALD

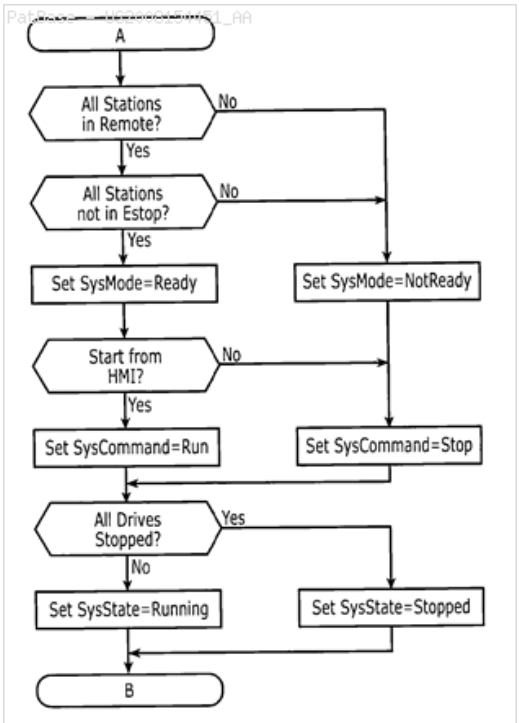
Agent(s): CHRISTIE PARKER AND HALE LLP

9) Family number: 41953153 (US2008154451A)

Title: METHOD OF CONTROLLING A RAIL TRANSPORT SYSTEM FOR CONVEYING BULK MATERIALS

Abstract: Source: US2008154451A A train is driven by drive stations positioned along a track for frictionally contacting side plates on the train. The drive speed is controlled in response to sensors located at each drive station sensing a position of a wheel and a side plate for confirming a presence of the train. A start command is transmitted from the drive station driving the train to a second drive station downstream when a lead car is within a preselected distance from the second drive station. The drive station at the second drive station is quickly accelerated to a target speed for synchronizing the first drive station with the second drive station. After receiving the train, the second drive station then transmits a stop command to the first drive station for fast decelerating the drive station to a stop.

Classifications:
International (IPC 8-9): B61B13/12 B61K13/00 B61L1/00 B65G35/08 B65G41/00 G05D1/00 G05D13/02 (Advanced/Invention);
B61B13/12 B61K13/00 B61L1/00 B65G35/00 B65G41/00 G05D13/00 (Core/Invention);
G05D (Subclass/Invention)
International (IPC 1-7): B65G41/00
CPC: B61B13/127 G05D13/62
European: B61B13/12D G05D13/62
US: 104/53 246/182.00R 246/182.0BH 246/182BH 246/182R 472/43 701/20 701/20P



Family:

Publication number	Publication date	Application number	Application date
AU2007336963 AA	20080703	AU20070336963	20071219
AU2007336963 BB	20110331	AU20070336963	20071219
BRPI0722058 A2	20140401	BR2007PI22058	20071219
CA2673394 AA	20090619	CA20072673394	20071219
CA2673394 C	20111018	CA20072673394	20071219
CN101605708 A	20091216	CN200780050338	20071219

IN04045DN2009 A	20091204	IN2009DN04045	20090619
US2008154451 AA	20080626	US20070959950	20071219
US8140202 BB	20120320	US20070959950	20071219
WO08079866 A2	20080703	WO2007US88107	20071219
WO08079866 A3	20080904	WO2007US88107	20071219
ZA200904232 A	20100526	ZA20090004232	20090617

Priority:

US20060871232P 20061221 US20070909971P 20070404 US20070959950 20071219 WO2007US88107 20071219

Probable Assignee: RAIL VEYOR SYSTEMS INC

Assignee(s): (std): CAPERS JOE ; DIBBLE MERTON F ; RAIL VEYOR SYSTEMS INC

Inventor(s): (std): CAPERS JOE ; DIBBLE MERTON F ; JOE CAPERS

Inventor(s): MERTON F DIBBLE

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS; MACRAE AND CO; CARL M NAPOLITANO PHD ALLEN DYER DOPPELT MILBRATH AND GILCHRIST PA; ALLEN DYER DOPPELT MILBRATH AND GILCHRIST PA; NAPOLITANO CARL M

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

10) Family number: 43004374 (WO09030117A1)

Title: SUSPENDED TRACK, SUSPENDED TRAIN AND TRAFFIC NETWORK

Abstract: A suspended track, a suspended train (3) and a traffic network thereof are disclosed. The traffic network includes a traffic control system, the suspended track and the wheeled suspended train (3) running on the suspended track. The suspended track includes a tower (1), suspension cables, oblique guy cables and/or oblique guy rods (6) fixed on the tower (1), and a track carrier (2) fixedly connected with the suspension cables, the oblique guy cables and/or the oblique guy rods (6) and the tower (1). The track carrier (2) is fixed by way of suspension, and the suspended train (3) runs below the track carrier (2) by way of suspension.

Classifications:
International (IPC 8-9): B61B3/02 (Advanced/Invention); B61B3/00 (Core/Invention)
CPC: B61B3/02
European: B61B3/02

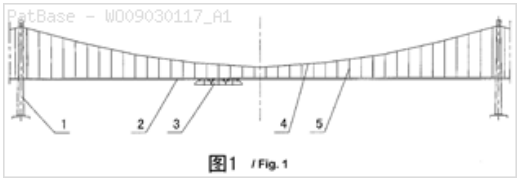


图1 / Fig. 1

Family:

Publication number	Publication date	Application number	Application date
CN101380954 A	20090311	CN200710121349	20070905
WO09030117 A1	20090312	WO2008CN001581	20080905

Priority:

CN200710121349 20070905

Probable Assignee: BEIJING QIXIANG INNOVATION SCI

Assignee(s): (std): LI QUANDONG ; LI YUEXIU ; QUANDONG LI ; BEIJING QIXIANG INNOVATION SCI

Assignee(s): BEIJING QIXIANG INNOVATION SCIENTIFIC AND TECHNICAL CENTER

Inventor(s): (std): JIAGUI YANG ; LI QUANDONG ; LI YUEXIU ; MINGQIONG LIN ; QUANDONG LI ; XINHUA TAN ; YUEFENG LI ; YUEXIU LI

Inventor(s): YANG JIAGUI ; TAN XINHUA ; LIN MINGQIONG ; LI YUEFENG

Agent(s): LECOME INTELLECTUAL PROPERTY AGENT LTD

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

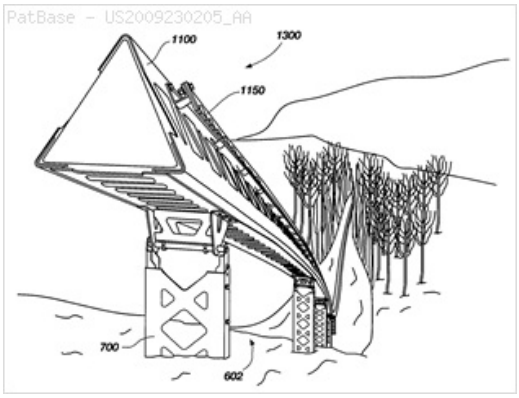
11) Family number: 43747068 (US2009230205A)

Title: HOLLOW STRUCTURAL MEMBERS, A RAIL SYSTEM AND METHODS OF MANUFACTURING

Abstract: Source: US2009230205A The invention is hollow structural members, a rail system based thereon and method of manufacturing such hollow structural members. Embodiments of the structural members may be hollow triangular prism-shaped with a cross-section that is triangular, isosceles, hexagonal or otherwise. Embodiments of rail systems based on hollow structural members are also disclosed. Embodiments of the rail systems disclosed herein may also include reaction assemblies for local dissipation of stresses due to thermal expansion of track materials.

Classifications:
International (IPC 8-9): B21D11/10 B21D28/26 B21D5/00 B21D51/16 B23P15/20 B61B5/00 B66B17/14 E01B1/00 E01B21/00 E01B25/00 E01B25/08 E01B25/10 E01B5/02 E04C3/08 (Advanced/Invention); B21D11/00 B21D28/24 B21D5/00 B21D51/16 B66B17/00 E01B1/00 E01B25/00 (Core/Invention)
CPC: E04C3/08 B61B5/00 B23P15/20 E01B25/08 Y10T29/49616 E01B25/10 E01B5/02
European: E01B25/08 E01B25/10
US: 1/1 104/118 104/119 104/124 104/124S 238/122 238/157 238/2

238/2P 29/897 52/831



Family:

Publication number	Publication date	Application number	Application date
US2009230205 AA	20090917	US20080075619	20080312
US2012137921 AA	20120607	US20110373709	20111128
US2014053752 AA	20140227	US20130971805	20130820
US2015267354 AA	20150924	US20150720555	20150522
US8066200 BB	20111129	US20080075619	20080312
US8511579 BB	20130820	US20110373709	20111128
US9062418 BB	20150623	US20130971805	20130820
US9267242 BB	20160223	US20150720555	20150522
WO09114113 A2	20090917	WO2009US01482	20090306
WO09114113 A3	20091217	WO2009US01482	20090306

Priority:

US20080075619 20080312 US20110373709 20111128 US20130971805 20130820 US20150720555 20150522

Probable Assignee: HILLTRAC INC

Assignee(s): (std)**:** HEPNER ALAN ; HILLTRAC INC ; METIVIER DAVID ; METIVIER DAVIS

Inventor(s): (std)**:** HEPNER ALAN ; METIVIER DAVID ; METIVIER DAVIS

Agent(s): MORRISS OBRYANT COMPAGNI PC; EMINENT IP PC; PAUL C; OESTREICH PAUL C ET AL

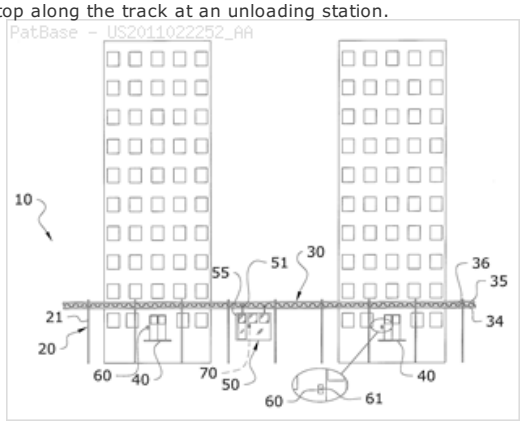
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA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

12) Family number: 48200899 (US2011022252A)

Title: MASS TRANSPORTATION SYSTEM

Abstract: Source: US2011022252A A mass transportation system for efficiently transporting a plurality of passengers along a predetermined path from a loading station to an unloading station. The transportation system generally includes a support structure, a track positioned above ground level via the support structure, and a carrier vehicle operable along the track. A first control module operable by a passenger is located outside the carrier vehicle upon a loading station for signaling the carrier vehicle to stop along the track at the loading station and a second control module operable by the passenger is located inside the carrier vehicle for signaling the carrier vehicle to stop along the track at an unloading station.

Classifications:
International (IPC 8-9): B61B1/00 B61B1/02 B61B12/02 B61B3/00 B61B7/06 B61L23/00 B61L27/00 E01B25/22 G06F19/00 (Advanced/Invention)
CPC: B61B7/00 B61B1/00
European: B61B1/00 B61B7/00
US: 104/112 104/27 104/28 104/89 104/91 105/149.1 701/19 701/19P



Family:

Publication number	Publication date	Application number	Application date
CA2767842 AA	20110127	CA20102767842	20100721
EP2456649 A1	20120530	EP20100801823	20100721
EP2456649 A4	20130320	EP20100801823	20100721
IN00414KN2012 A	20121012	IN2012KN00414	20120223
JP2013500187 T2	20130107	JP20120520875T	20100721
US2011022252 AA	20110127	US20090508678	20090724
US8494694 BB	20130723	US20090508678	20090724
WO11009202 A1	20110127	WO2010CA01122	20100721

Priority:

US20090508678 20090724 WO2010CA01122 20100721

Probable Assignee: DUECK RAYMOND

Assignee(s): (std)**:** DUECK RAYMOND

Inventor(s): (std)**:** DUECK RAYMOND

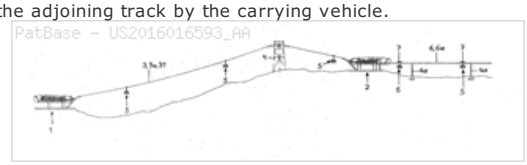
Agent(s): ADE AND CO INC; FRANKE DIRK; NEUSTEL LAW OFFICES LTD; NEUSTEL LAW OFFICES; BATTISON WILLIAMS DUPUIS

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

13) Family number: 59415278 (US2016016593A)

Title: SYSTEM FOR TRANSPORTING PEOPLE

Abstract: Source: US2016016593A A transport system has at least one hauling cable to which a cableway vehicle formed with running gear and a vehicle cab can be coupled. Alternatively, the system has a carrying cable or a track on which a cableway vehicle formed with running gear and a cab can be moved by a traction cable. The section with the hauling cable or carrying cable, or the track, is adjoined by a further track section along which a carrying vehicle for the cableway vehicle can be moved. The carrying vehicle has a drive motor. The running gear of the cableway vehicle runs onto and attaches to the carrying vehicle, whereupon the cableway vehicle is movable along the adjoining track by the carrying vehicle.



Classifications:
International (IPC 8-9): B61B10/02 B61B12/00 B61B13/06 B61B15/00 B61B3/02 B61B7/00 B61B7/02 B61C7/04 (Advanced/Invention); B61B12/00 B61B3/00 B61B7/00 (Core/Invention)
CPC: B61B10/02 B61B7/00 B61B10/022 B61B10/025 B61B10/027 B61B15/00 B61B3/02 B61B7/02 B61B12/00
US: 104/87

Family:

Publication number	Publication date	Application number	Application date
AT515098 A4	20150615	AT20130000912	20131128
AT515098 B1	20150615	AT20130000912	20131128
AU2014354563 AA	20150604	AU20140354563	20141016
AU2014354563 BB	20170309	AU20140354563	20141016
CA2922548 AA	20160226	CA20142922548	20141016
CA2922548 C	20170321	CA20142922548	20141016
CL2016001267 A1	20161202	CL20160001267	20160525
CN105593097 A	20160518	CN201480054240	20141016
CO16135266 A2	20160831	CO20160135266	20160524
DE502014001604 D1	20161117	DE201450001604T	20141016
EP2925585 A1	20151007	EP20140799652	20141016
EP2925585 B1	20160928	EP20140799652	20141016
ES2607720 T3	20170403	ES20140799652T	20141016
IN201637003533 A	20160603	IN201637003533	20160201
JP2016538189 T2	20161208	JP20160534906T	20141016
KR20160078432 A	20160704	KR20167014055	20141016
MA38845 A1	20161130	MA20160038845	20160212
MX2016006939 A1	20160927	MX20160006939	20141016
NZ717770 A	20161223	NZ20140717770	20141016
PE06382016 A1	20160728	PE20160000668	20141016
PL2925585 T3	20170331	PL20140799652T	20141016
SI2925585 T1	20170131	SI20140030121	20141016
TR201615703 T4	20161221	TR20160015703T	20141016
US2016016593 AA	20160121	US20140763569	20141016
WO15077806 A1	20150604	WO2014AT00185	20141016

Priority:

AT20130000912 20131128 EP20140799652 20141016 WO2014AT00185 20141016

Probable Assignee: INNOVA PATENT GMBH

Assignee(s): (std)**:** INNOVA PATENT GMBH

Assignee(s): LUGER PETER ; MORITZHUBER JOHANNES ; DUR GERD

Inventor(s): (std)**:** DUER GERD ; DUER GERD ING ; DUR GERD ; GERD DUER ; JOHANNES MORITZHUBER ; LUGER PETER ; LUGER PETER DIPL ING ; MORITZHUBER JOHANNES ; MORITZHUBER JOHANNES ING ; PETER LUGER

Inventor(s): LUGER PETER DIPLING

Agent(s): FISHER ADAMS KELLY CALLINANS; RIDOUT AND MAYBEE LLP; JARRY IP JARRY IP SPA; JOSE ANDRES RINCON USCATEGUI; OFFICE FREYLINGER SA; BEER AND PARTNER PATENTANWAELTE KG; IZQUIERDO MARIA ALICIA; MUESERREF AKYOL

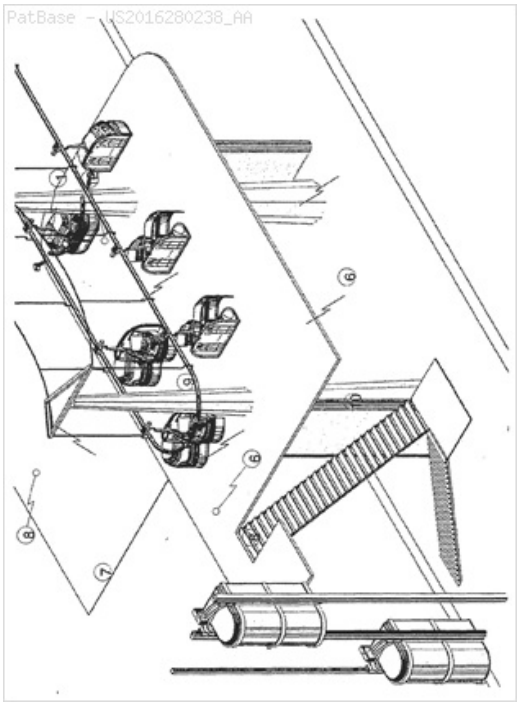
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW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

14) Family number: 59607882 (US2016280238A)

Title: PERSONALISED ELEVATED URBAN TRANSPORT

Abstract: Source: US2016280238A A bidirectional overhead urban transport (TUEP) for a large transportation capacity, which is suspended over a series of poles, without interfering with the traffic of vehicles and pedestrians surface, which is characterized by having a continuum of autonomous cabins circulating about a tubular track suspended by static wires hanging from the poles. The system has overhead stations for passengers, by which access is given to the suspended cabins, moved by autonomous and independent electric motors which rotate a drive pulley rolling on the upper back of a horizontal tubular track raised or inclined according to the topography of the ground. The peculiarity of this transport system is that each of the cabins that are only for two passengers, travels directly to a destination station, where is diverted from the main flow to a station, so it is not necessary to stop the main flow of cabins, which results in that although circulating at low to moderate speed, the time required to travel is reduced.

Classifications:
International (IPC 8-9): B60L13/00 B61B1/00 B61B1/02 B61B13/04 B61B3/00 B61B3/02 B61D17/04 B61D19/00 B61L27/04 E01F1/00 (Advanced/Invention)
CPC: B61B1/00 E01F1/00 B61D17/041 B61B1/02 B61L27/04 B61B3/02 Y02T30/30
US: 104/94



Family:

Publication number	Publication date	Application number	Application date
CA2917411 AA	20160105	CA20142917411	20141216
CN105392683 A	20160309	CN201480040697	20141216
CO15312328 A2	20160630	CO20150312328	20151230
EP2977285 A2	20160127	EP20140872899	20141216
EP2977285 A4	20161130	EP20140872899	20141216
JP2017504524 T2	20170209	JP20160560332T	20141216
KR20160098164 A	20160818	KR20167008082	20141216
MX2013015095 A1	20150618	MX20130015095	20131218
US2016280238 AA	20160929	US20140897960	20141216
WO15093931 A2	20150625	WO2014MX00206	20141216
WO15093931 A3	20150813	WO2014MX00206	20141216

Priority:
AR2014P104553 20141205 MX20130015095 20131218 WO2014MX00206 20141216 MX2013MX15095 20131218

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

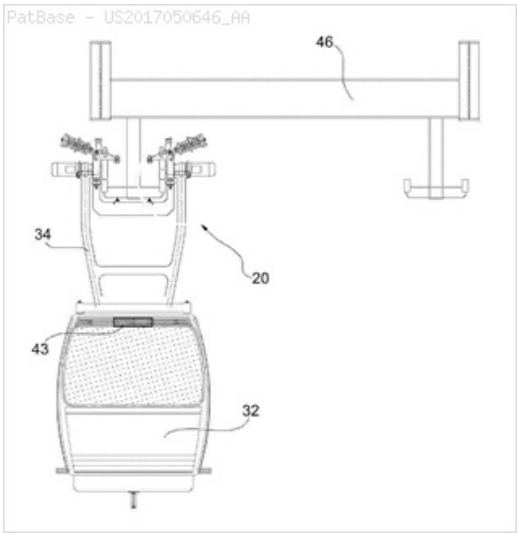
15) Family number: 60729602 (US2017050646A)

Title: A CONTINUOUSLY MOVING CABLEWAY

Abstract: Source: US2017050646A In a continuously moving cableway installation (9), a haul rope (13b) extends as a closed loop defining a transportation path (12). Suspended vehicles (14) can be connected to the rope by means of automatic coupling devices (24). Along the rope path, passenger stations (10) are provided, each providing ramps (22) to cause the clamping or release of the automatic coupling devices (24), fixed power supply conductors (30), and overhead rails (28). Mounted on board each vehicle (14) are: a motor-driven trolley (20), an electrical contact (30a) to contact one of the power supply conductors (30) in the passenger stations (10), an electric power battery (43), and an electric motor (42) with driving wheels (40) associated thereto, which are suitable for rolling on the overhead rails (28) in order to move the vehicle within and proximate to the passenger stations.

Classifications:

International (IPC 8-9): B61B12/00 B61B12/02 B61B12/10 B61B3/00 B61B7/04 B61B7/06 (Advanced/Invention)
CPC: B61B12/002 B61B3/00 B61B7/04 B61B12/10 B61B1/00 B61B12/022 B61B7/06
US: 104/87



Family:

Publication number	Publication date	Application number	Application date
CN106255631 A	20161221	CN201580021897	20150218
EP3137360 A1	20170308	EP20150711850	20150218
US2017050646 AA	20170223	US20150307461	20150218
WO15166357 A1	20151105	WO2015IB51234	20150218

Priority:

IT2014TO00355 20140502 WO2015IB51234 20150218

Probable Assignee: DIMENSIONE INGENIERIE S R L

Assignee(s): (std): DIMENSIONE INGENIERIE S R L

Assignee(s): DIMENSIONE INGENIERIE SRL

Inventor(s): (std): BLENGINI SERGIO

Agent(s): FIORAVANTI CORRADO; FIORAVANTI CORRADO ET AL

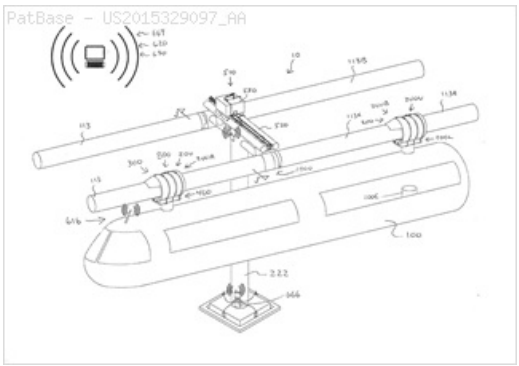
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW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

16) Family number: 60812300 (US2015329097A)

Title: TRANSPORTATION SYSTEMS

Abstract: Source: US2015329097A A transportation system is disclosed that includes a monorail (or other vehicle) along a column-supported rail and a movable weight system that repositions and/or accelerates a movable weight with respect to the movable weight's rail to counterbalance a moment associated with the weight and/or a centrifugal force of the monorail relative to the column, where some embodiments also mitigate resonance. Also disclosed is a linear induction motor (LIM) system that enables the LIM to tilt and thereby remain close to the rail, which mitigates potential thrust losses and/or air losses. Further disclosed is an air bearing system where the air bearing has a compliance and a resilience that minimizes air loss between the rail and the bearing. Additionally disclosed is a rotatable wedge system that essentially expands and/or contracts automatically to maintain an adjacency between two rail portions, where some embodiments also mitigate resonance.

Classifications:
International (IPC 8-9): B60V1/06 B60V3/04 B60V3/06 B61B13/04 B61B13/06 B61B3/00 B61B3/02 B61C13/08 E01B11/32 E01B25/22 (Advanced/Invention)
CPC: B61B3/00 B61B13/04 B61C13/08 B60V3/04 E01B25/22 B61B3/02 Y02T30/40
US: 104/23.1 104/93



Family:

Publication number	Publication date	Application number	Application date
US2015329097 AA	20151119	US20140458248	20140812
US2015353099 AA	20151210	US20150706257	20150507
US2015353100 AA	20151210	US20150706385	20150507
US2016009297 AA	20160114	US20150862711	20150923
WO16025026 A1	20160218	WO2015US15514	20150211

Priority:

US20130865119P 20130812 US20140458248 20140812 US20150706385 20150507
US20150706257 20150507 US20150862711 20150923 WO2015US15514 20150211

Probable Assignee: DURAN ARIZA GONZALO

Assignee(s): (std)**:** DURAN ARIZA GONZALO

Inventor(s): (std)**:** DURAN ARIZA GONZALO ; MALISH MICHAEL

Agent(s): MALISH MICHAEL

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

17) Family number: 61122841 (US2015361623A)

Title: MULTIPLE TIER ELEVATED LIGHT TRAIN

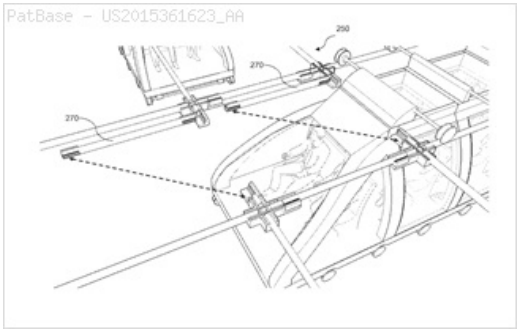
Abstract: Source: US2015361623A A method for enabling elevated trains for travel both above as well as below a vertically tiered pair of tracks by having wheels both in the upper and lower area of the train with the ability to switch, at the end of the line, from traveling on the upper tracks using lower wheels to traveling on the lower track using upper wheels, where the said method of switching between upper and lower tracks enables trains to be moved between multiple levels serving as passing loops as well as vertical depots.

Classifications:

International (IPC 8-9): B61B1/02 B61B15/00 B61B3/00 B61B5/02 B61D1/00 B61D49/00 B65G63/00 E01B25/22 E01B25/24 E01B26/00 (Advanced/Invention)

CPC: E01B25/24 B61B3/00 E01B25/26 B61B1/02 B61B5/02 E01B25/22 E01B26/00 B61B3/02 B61B5/00

US: 104/110 104/28



Family:

Publication number	Publication date	Application number	Application date
IN01745DE2015 A	20160610	IN2015DE01745	20150610
US2015361623 AA	20151217	US20150737677	20150612
US2016347330 AA	20161201	US20160231722	20160808

Priority:

US20140011541P 20140612 US20150202162P 20150806 US20150737677 20150612 US20160231722 20160808

Probable Assignee: JACOB INNOVATIONS LLC

Assignee(s): (std)**:** JACOB EMIL ; JACOB INNOVATIONS LLC

Assignee(s): EMIL JACOB

Inventor(s): (std)**:** JACOB EMIL

Inventor(s): EMIL JACOB

18) Family number: 61251717 (US2017043792A)

Title: CABLE CAR SYSTEM

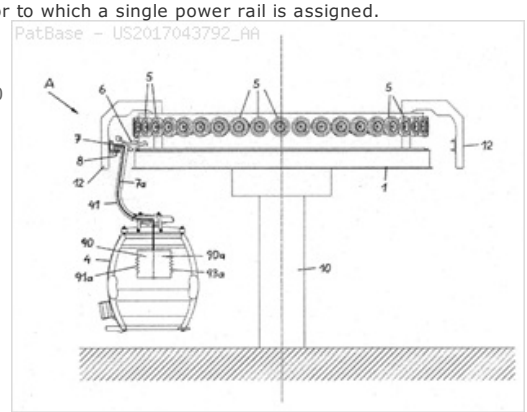
Abstract: Source: US2017043792A A cable car system has vehicles which are coupled to a conveying cable between stations. The vehicles are decoupled from the conveying cable in the stations and are moved through the stations along guide rails. The vehicles are formed with current collectors and the stations have associated power rails. In at least one of the vehicles there is located a circuit with at least one electrical load which is supplied with electrical energy via the current collector and the power rails. At least one second circuit with at least one further electrical load is located in at least one vehicle. The second circuit is supplied with electrical energy via a single further current collector and a power rail assigned thereto. The two circuits are connected to a common current collector to which a single power rail is assigned.

Classifications:

International (IPC 8-9): B60L5/00 B61B12/00 B61B7/00 B61B7/04 H05B3/02 (Advanced/Invention)

CPC: B61B7/00 H05B3/02 B61B12/00 B61B7/04 B61B3/00 B61B1/00 B61B12/002

US: 104/27



Family:

Publication number	Publication date	Application number	Application date

AT14931 U1	20160815	AT20150008070U	20140626
AU2015281771 AA	20151230	AU20150281771	20150507
CA2948892 AA	20161114	CA20152948892	20150507
CN106414210 A	20170215	CN201580027834	20150507
CO20160005751 A2	20161230	CO20160005751	20161226
EP3160816 A1	20170503	EP20150729066	20150507
IN201637035935 A	20170324	IN201637035935	20161020
KR20170016513 A	20170213	KR20177002425	20150507
PE00152017 A1	20170330	PE20160002762	20150507
US2017043792 AA	20170216	US20150306250	20150507
WO15196221 A1	20151230	WO2015AT00066	20150507

Priority:

AT20140000509 20140626 AT20150008070U 20140626 WO2015AT00066 20150507

Probable Assignee: INNOVA PATENT GMBH

Assignee(s): (std)**:** INNOVA PATENT GMBH

Assignee(s): MORITZHUBER JOHANNES ; SCHERTLER KURT

Inventor(s): (std)**:** MORITZHUBER JOHANNES ; SCHERTLER KURT ; MORITZHUBER JOHANNES ING

Inventor(s): JOHANNES MORITZHUBER ; KURT SCHERTLER

Agent(s): FISHER ADAMS KELLY CALLINANS; RIDOUT AND MAYBEE LLP; JOSE ANDRES RINCON USCATEGUI; BEER AND PARTNER PATENTANWAELTE KG

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

19) Family number: 63710534 (US2016288802A)

Title: ARTICLE TRANSPORT FACILITY

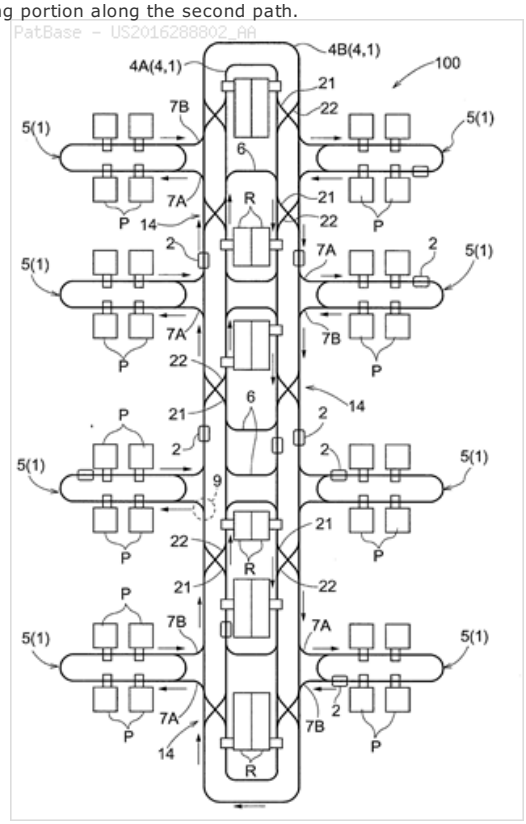
Abstract: Source: US2016288802A First travel rail pair provided along a first path has a first discontinuous section. And second travel rail pair provided along a second path has a second discontinuous section. First guide members allow movement of guided members along a travel direction and restrict vertical movement of one or more of the guided member when the article transport vehicle travels through a crossing portion along the first path. Second guide members allow movement of the guided members along the travel direction and restrict vertical movement of one or more of the guided members when the article transport vehicle travels through a crossing portion along the second path.

Classifications:

International (IPC 8-9): B61B13/00 B61B3/02 B65G1/00 B65G35/00 B65G49/06 B65G49/07 B66C7/12 B66C9/08 H01L21/677 (Advanced/Invention)

CPC: B61B3/02 H01L21/67724 B61B13/00 B65G35/00 B65G49/061 H01L21/67706 H01L21/6773 B65G2201/0297 B65G2812/99

US: 104/91



Family:

Publication number	Publication date	Application number	Application date
JP2016196359 A2	20161124	JP20150077896	20150406
KR20160119711 A	20161014	KR20160041077	20160404
TW201700386 A	20170101	TW20160109023	20160323
US2016288802 AA	20161006	US20160090787	20160405

Priority:

JP20150077896 20150406 KR20160041077 20160404

Probable Assignee: DAIFUKU CO LTD

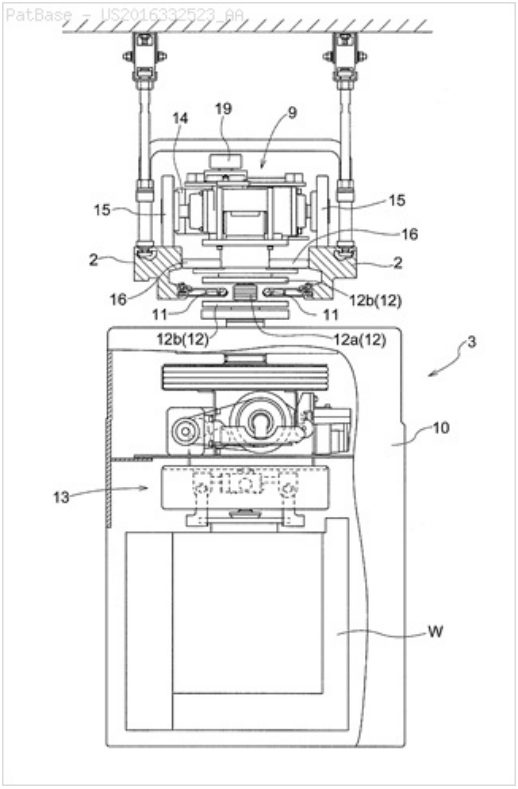
Assignee(s): (std): DAIFUKU KK
Assignee(s): DAIFUKU CO ; DAIFUKU CO LTD
Inventor(s): (std): KINUGAWA TOMOTAKA ; OGAWA DAISUKE
Agent(s): R AND C IP LAW FIRM

20) Family number: 63986589 (US2016332523A)

Title: ARTICLE TRANSPORT FACILITY

Abstract: Source: US2016332523A An article transport vehicle includes a transport vehicle main body, a first travel portion, a second travel portion, and power-receiving portions for receiving driving electric power without contact from one or more electricity supply lines. The first travel portion rotatably supports a transport vehicle main body. The second travel portion rotatably supports the transport vehicle main body. The power-receiving portions include a first power-receiving portion which is configured to be rotated integrally with the first travel portion, and a second power-receiving portion which is configured to be rotated integrally with the second travel portion.

Classifications:
International (IPC 8-9): B60L5/00 B60M7/00 B61B13/00 B61B3/02 B65G1/00 B65G35/00 B65G35/06 B65G49/06 B66C13/22 B66C9/08 H01L21/677 (Advanced/Invention)
CPC: B60L5/005 B65G35/06 B61B3/02 B60L2200/26 H01L21/67706 B61B13/00 B65G49/061 H01L21/67709 H01L21/67718 H01L21/67742 B65G2201/0235 B65G2201/0297 B60M7/00
US: 104/288



Family:

Publication number	Publication date	Application number	Application date
CN106144452 A	20161123	CN201610314534	20160513
JP2016210371 A2	20161215	JP20150098232	20150513
KR20160134508 A	20161123	KR20160056928	20160510
SG10201603415X A1	20161229	SG20161003415	20160428
TW201700388 A	20170101	TW20160113734	20160503
US2016332523 AA	20161117	US20160151651	20160511

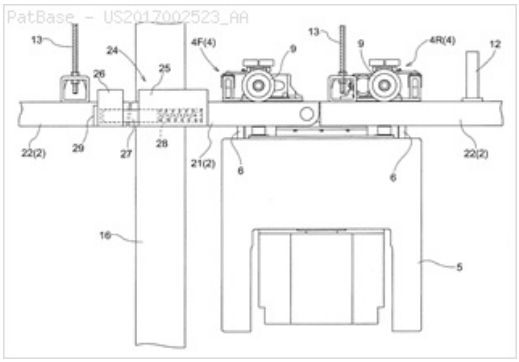
Priority:
JP20150098232 20150513 KR20160056928 20160510
Probable Assignee: DAIFUKU KK
Assignee(s): (std): DAIFUKU KK
Assignee(s): DAIFUKU CO ; DAIFUKU CO LTD
Inventor(s): (std): WADA YOSHINARI
Inventor(s): YOSHINARI WADA
Agent(s): R AND C IP LAW FIRM; MIRANDAH ASIA SINGAPORE PTE LTD

21) Family number: 64544768 (US2017002523A)

Title: ARTICLE TRANSPORT FACILITY

Abstract: Source: US2017002523A An article transport facility includes an engaging member capable of being moved to an engaging position at which the engaging member is in engagement with a movable guide portion and with a fixed guide portion to hold the movable guide portion in the guiding position, and to a releasing position at which the engaging member is not in engagement with at least one of the movable guide portion and the fixed guide portion wherein the engaging member supports the movable guide portion from below when in the engaging position; an urging member for urging the engaging member; a holding device for generating an operating force with electric power supplied from an electric power supply to hold the engaging member in the engaging position against an urging force of the urging member; and a power-supply controller for controlling the operation of the electric power supply. The power-supply controller maintains electric power supply in an electric power supplying state while fire information is not outputted from a fire detector and switches the electric power supply to an electric power non-supplying state if fire information is outputted from the fire detector.

Classifications:
International (IPC 8-9): A62C2/22 B61B3/02 B63B13/00 B65G1/00 B65G1/04 B65G35/00 B65G43/00 B65G43/02 B65G49/06 E01B11/42 E01B25/22 H01L21/677 (Advanced/Invention)
CPC: E01B11/42 B61B3/02 E01B25/22 E01B2202/02 E01B2202/08 H01L21/67724 B63B13/00 B65G43/00 B65G49/061 H01L21/67706 H01L21/67709 H01L21/67772 B65G2201/0297 B65G2207/40
US: 238/14.3



Family:

Publication number	Publication date	Application number	Application date
CN106315145 A	20170111	CN201610500853	20160630
JP2017013946 A2	20170119	JP20150131608	20150630
KR20170003474 A	20170109	KR20160082425	20160630
SG10201605312X A1	20170127	SG20161005312	20160628
TW201704127 A	20170201	TW20160120325	20160628
US2017002523 AA	20170105	US20160196106	20160629

Priority:
JP20150131608 20150630 KR20160082425 20160630

Probable Assignee: DAIFUKU CO LTD
Assignee(s): (std): DAIFUKU KK
Assignee(s): DAIFUKU CO ; DAIFUKU CO LTD
Inventor(s): (std): OGISU MOTONARI
Inventor(s): MOTONARI OGISU
Agent(s): R AND C IP LAW FIRM; MIRANDAH ASIA SINGAPORE PTE LTD