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Results: 34

1) Family number: 52545004 (US2012312186A)

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Title: METHODS AND SYSTEMS FOR MULTI-DIMENSIONAL MOTION

Priority: US20110155448 20110608 US20140201393 20140307

Family:	Publication number	Publication date	Application number	Application date
	US2012312186 AA	20121213	US20110155448	20110608
	US2014182475 AA	20140703	US20140201393	20140307
	US8689698 BB	20140408	US20110155448	20110608
	US8931417 BB	20150113	US20140201393	20140307

Probable Assignee: SHASHA DENNIS

Assignee(s):(std): SHASHA DENNIS ; WHITTAKER MICHAEL JOHN

Inventor(s):(std): WHITTAKER MICHAEL JOHN ; SHASHA DENNIS

Agent(s): STRATEGIC PATENTS PC

International class (IPC 8-9): A63G1/30 A63G21/20 A63G31/16 A63G7/00 B61B3/00 B66B1/02 B66B5/28 (Advanced/Invention); A63G31/00 (Advanced/Non-invention)

CPC: A63G31/16 A63G1/30 A63G7/00 A63G21/20 A63G31/007

US class: 104/91 104/93 414/785

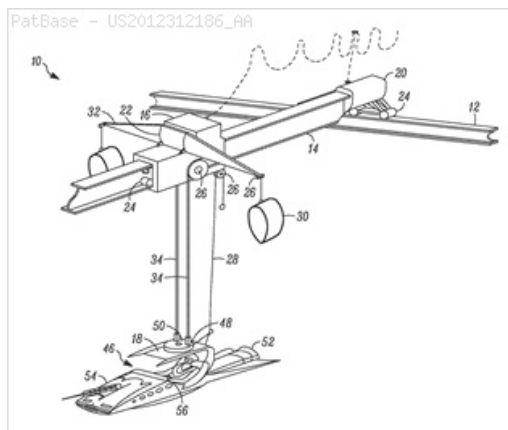
[Classification Explorer](#)

Cited documents: US7854202 BB, US7846032 BB, US7802522 BB, US7594473 BB, US7484460 BB, US7237492 BB, US6871596 BB, US6666159 BB, US6386115 BB, US6269749 BA, US6095926 A, US5759107 A, US5623878 A, US5558582 A, US5081932 A, US2012312186 AA, US2007074638 AA, US2007074636 AA, US2006213306 AA,

Forward Citations: US9737996, US9643094, US9393496, US9120023, US9092188, US8931417, US8733028, US2018365896, US2018304160, US2015282649, US2015090065, US2014226273, US2011168653, US10593115, US10500507, US10357722, US10005477,

Abstract:

An apparatus includes: a fixed primary anchoring element, a beam mount movably connected to the primary anchoring element, a beam connected to the beam mount, a vessel mount movably connected to the beam, a vessel connected to the vessel mount, the vessel being movable along at least a vertical axis, and a control unit within the vessel. The control unit is configured to accept control input from a passenger within the vessel and transmit at least one control signal to cause the beam to move relative to the primary anchoring element, the vessel mount to move relative to the beam, and the vessel to move relative to the vessel mount independently.



2) Family number: 14629007 (US5489212A)

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Title: ROTATING SIMULATOR AND BODY HOLDING APPARATUS THEREFOR

Priority: JP19900070444U 19900702 JP19900175125 19900702 US19910667549 19910311
US19960593922 19960130 JP19960273884 19960910

Family:	Publication number	Publication date	Application number	Application date
	JP2511676 Y2	19960925	JP19900070444U	19900702
	JP2607971 B2	19970507	JP19900175125	19900702
	JP3268983 B2	20020325	JP19960273884	19960910
	JP4027987 U1	19920305	JP19900070444U	19900702
	JP4062587 A2	19920227	JP19900175125	19900702
	JP9212079 A2	19970815	JP19960273884	19960910
	US5489212 A	19960206	US19910667549	19910311
	US5860808 A	19990119	US19960593922	19960130

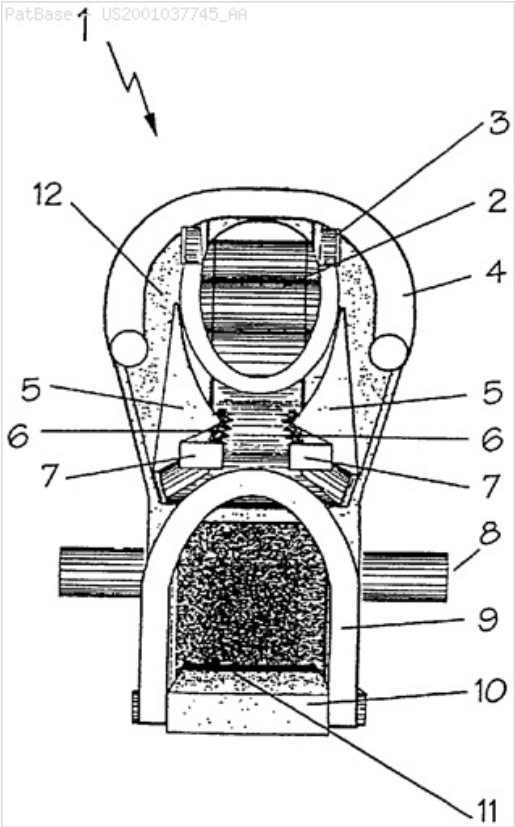
Inventor(s):(std): MARES JOHN F ; GORMAN ROBERT H
Inventor(s): JOHN F MARES
Agent(s): JEFFREY D MYERS; NANCY E OWNBEY
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW
International class A63G1/00 A63G27/00 A63G29/00 A63G7/00 (Advanced/Invention);
(IPC 8-9): A63G1/00 A63G27/00 A63G29/00 A63G7/00 (Core/Invention)
International class A63G1/00 A63G23/00 A63G25/00 A63G25/22 A63G3/100 A63G31/00 A63G7/00
(IPC 1-7):
CPC: A63G1/00 A63G7/00 A63G27/00 A63G29/00
European class: A63G1/00 A63G27/00 A63G29/00 A63G7/00
US class: 104/53 104/53P 104/53S 104/55 104/55S 104/63 104/76 104/76P

[Classification Explorer](#)

Cited documents: WO9324196 A1, WO9113662 A1, WO0108769 A1, USD317642 S1, US995945 A, US944407 A, US901435 A, US887082 A, US815211 A, US815210 A, US803465 A, US771322 A, US728246 A, US6477961 BA, US6386115 BB, US620415 A, US6158354 A, US6098549 A, US5791254 A, US5759107 A, US567861 A, US5272984 A, US5218910 A, US5060932 A, US4545574 A, US4501434 A, US4272093 A, US4221170 A, US4170943 A, US3777835 A, US3610160 A, US3596905 A, US3507222 A, US3299565 A, US3066951 A, US2535862 A, US2499470 A, US2498450 A, US2423283 A, US2158073 A, US2135230 A, US2046678 A, US2009904 A, US1783268 A, US1557942 A, US142605 A, JP9117570 A2, JP1285286 A2, FR633775 A,

Forward Citations: WO19229183, WO19140520, WO19018163, WO18200413, WO16075674, WO12102434, WO10055531, WO07139508, WO06021572, WO03083214, WO03083214, WO0198938, WO0108769, WO0029086, USD586873, US9994180, US9950647, US9084941, US8931417, US8893623, US8689698, US8683923, US8663023, US8647212, US8641542, US8578857, US8517848, US8453578, US8348776, US8313389, US8282497, US8251832, US8210954, US8197352, US8162769, US8096892, US8079916, US8075413, US8070615, US7980181, US7942752, US7921601, US7918740, US7857704, US7828667, US7815514, US7811177, US7802522, US7785207, US7780536, US7775896, US7775895, US7775894, US7770523, US7766753, US7762900, US7762899, US7758435, US7740542, US7739958, US7727077, US7694412, US7685944, US7677671, US7640862, US7610859, US7597630, US7594473, US7542830, US7497784, US7491128, US7371183, US7371182, US7285053, US7229359, US7206727, US7204559, US7179173, US7027966, US7004847, US6969323, US6679182, US6637341, US6629500, US6606953, US6523479, US6513441, US6487975, US6405655, US6402624, US6386115, US6384801, US6352034, US6302029, US6269750, US6227121, US6158354, US6098549, US2018065593, US2014116282, US2011017092, US2010275809, US2009320712, US2009031913, US2008300730, US2008179937, US2008113822, US2008089763, US2008032806, US2007225877, US2007199474, US2007089633, US2007089632, US2007089631, US2007089630, US2007078016, US2007049386, US2007027661, US2007010336, US2006202047, US2005159933, US2005114706, US2005090319, US2005090318, US2004113887, US2003204385, US2003203760, US2003190967, US2002070599, US10572000, US10549153, US10528123, US10289194, US10286329, US10155171, RU174366, GB2348376, EP3628384, EP3216503, EP3081274, EP3081274, EP2825273, EP2825273, EP2298426, EP2277760, EP2277760, EP1944069, EP1236489, EP1236489, EP1229972, EP1229972, DE202010000403, DE102009044065, DE102007047289, CN107521681, CN106693371, CN104537909, CN104436661, CN101961557, CN101961557,

Abstract:
An amusement device comprising a modularized pod, in which one or more riders sit and are restrained, and which spins under power about a horizontal axis according to the passenger's active control. The riders control the spinning of the pod, either forward or backward, by pressing buttons on the passenger's handgrips located inside the pod. The modularized pod may be used in conjunction with many different types of amusement devices, including, but not limited to roller coasters, carousels, Ferris wheels, virtual reality units, centrifugal tumblers. The modularized pod may also be used in conjunction with flight and space training and simulation units.



Title: SAFETY DEVICE FOR A FAIRGROUND ATTRACTION**Priority:** NL20011017724 20010328**Family:**

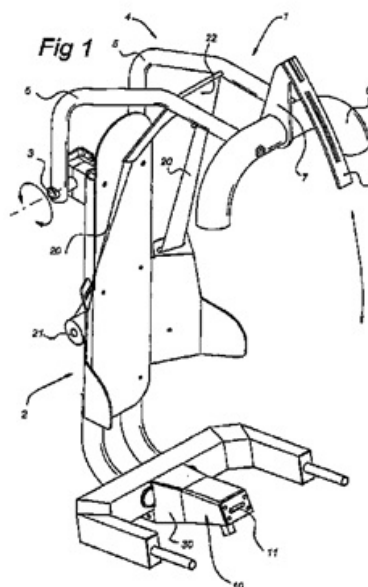
Publication number	Publication date	Application number	Application date
EP1245459 A1	20021002	EP20020076218	20020327
NL1017724 C2	20021001	NL20011017724	20010328
US2003024428 AA	20030206	US20020106111	20020327
US6637341 BB	20031028	US20020106111	20020327

Probable Assignee: COBRA BEHEER BV**Assignee(s):(std):** COBRA BEHEER B V ; COBRA BEHEER BV**Assignee(s):** COBRA BEHEER PARALLELWEG BV**Inventor(s):(std):** KROON LOUISITO JOHANNES EUSEBI ; KROON ALBERT LOUISITO PHILIPS ; ALBERT LOUISITO PHILLIPUS KROON ; LOUISITO JOHANNES EUSEBIO KROON ; KROON ALBERT LOUISITO PHILLIPUS**Inventor(s):** KROON ALBERT LOUISITO PHILLIPUS ; KROON LOUISITO JOHANNES EUSEBIO**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR**International class (IPC 8-9):** A63G27/04 (Advanced/Invention);
B60R21/00 B60R21/02 B60R22/02 (Advanced/Non-invention);
A63G27/00 (Core/Invention);
B60R21/00 B60R21/02 B60R22/02 (Core/Non-invention)**International class (IPC 1-7):** A63G27/04 A63G7/00 B60R21/02 E05G1/00**CPC:** A63G27/04 B60R22/02 B60R2021/0037 B60R2021/0097 B60R2021/0206**European class:** A63G27/04 L60R21/00P1S L60R21/00T11 L60R21/02A L60R22/02**US class:** 104/53 297/467[Classification Explorer](#)**Cited documents:** US6341818 BA, US6269750 BA, US6098549 A, US6079781 A, US5979333 A, US5902016 A, US5779319 A, US5549356 A, US5529382 A, US5503461 A, US5489212 A, US5272984 A, US5129478 A, US5061012 A, US4770468 A, US4700632 A, US2851084 A, EP0545860 B1, EP0545860 A1, DE3629495 A1,**Forward Citations:** WO19057357, US9994180, US9950647, US9827503, US9603450, US9580043, US9126554, US8505383, US8308245, US7947943, US7905789, US7892101, US7766754, US7695070, US7677671, US7523993, US6893088, US2018304160, US2016278527, US2012111222, US2012068521, US2011154904, US2010248851, US2009120319, US2008303260, US2008246327, US2008179937, US2006254099, US2004004379, US10357722, EP3574967, EP1904203, EP1394003, EP1394003, EP1394003, DE20314975, DE102017126488, DE102017121730, DE102017120645,**Abstract:**

A safety device for a construction in which people are able to sit and with which movements can be executed, for example for an attraction for a fairground or an amusement park, comprises a base that can be fixed to the construction, a restraint that at one end is pivotably connected to the base and that can be moved between a lifted-up position such that the person is able to sit down in the construction or to leave the latter, and a safety position in which the person is secured in the construction, as well as locking means for locking the restraint in the safety position. The locking means have a locking component that is located at the end of the restraint that faces away from the end where the restraint is pivotably mounted.

PatBase - US2003024428_AA

Patent Application Publication Feb. 6, 2003 Sheet 1 of 3 US 2003/024428 A1

**Title:** PASSENGER RESTRAINT DEVICE FOR AMUSEMENT RIDES

Priority: EP20130170529 20130604 EP20130789843 20131115 WO2013EP73998 20131115
US20150702128 20150501 US20180918541 20180312

Family:

Publication number	Publication date	Application number	Application date
CN105555617 A	20160504	CN201380077077	20131115
CN105555617 B	20180511	CN201380077077	20131115
DE602013041265 D1	20180830	DE201360041265T	20131115
EP3003789 A1	20160413	EP20130789843	20131115
EP3003789 B1	20180801	EP20130789843	20131115
EP3483010 A1	20190515	EP20180186682	20131115
TR201814126 T4	20181022	TR20180014126T	20131115
US2015232059 AA	20150820	US20150702128	20150501
US2018201224 AA	20180719	US20180918541	20180312
US9914428 BB	20180313	US20150702128	20150501
WO14194969 A1	20141211	WO2013EP73998	20131115

Probable Assignee: ANTONIO ZAMPERLA SPA

Assignee(s):(std): ANTONIO ZAMPERLA S P A ; ZAMPERLA ANTONIO SPA

Assignee(s): ANTONIO ZAMPERLA ALTAVILLA VICENTINA SPA ; ANTONIO ZAMPERLA SPA

Inventor(s):(std): ZAMPERLA ANTONIO

Inventor(s): ANTONIO ZAMPERLA

Agent(s): GISLON GABRIELE; TUGBA DERYA YILMAZ; ANDREWS KURTH KENYON LLP

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

International class (IPC 8-9): A63G31/00 A63G7/00 B60N2/00 B60N2/42 B60R21/00 B60R21/015 B60R21/02 B60R22/12 (Advanced/Invention); A47D15/00 (Advanced/Non-invention)

CPC: A63G7/00 B60N2/002 B60R21/015 B60R21/01512 B60R21/01524 B60R21/02 B60R2021/0097 B60R21/00 B60R22/12

US class: 1/1 297/311 297/467

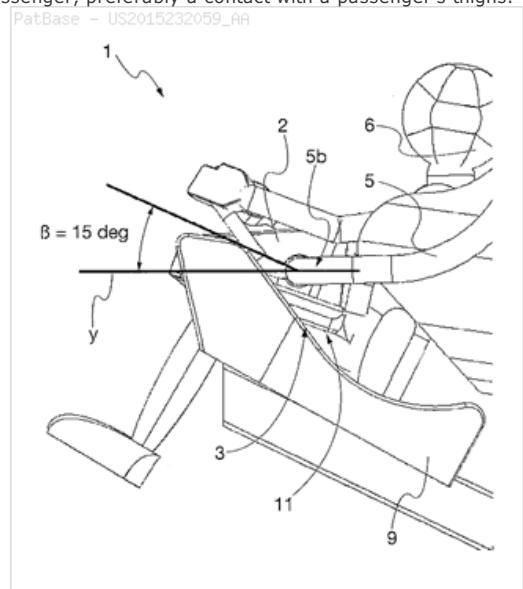
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Forward Citations: WO19048194, WO16046050, US9839855, US9600999, US2018304160, US2018061157, US2017282853, US2015339910, US10460539, US10456695, US10357722, FR3083632, DE102017126488, DE102014113869, CN107073337,

Abstract:

A passenger restraint device for amusement rides and a method for retaining at least one passenger by means of the restraint device. The device comprises at least one restraint element provided with at least one contact surface intended to be placed in contact with at least one part of the body of a passenger. The restraint element is movable between at least one open position, in which the restraint element is not in contact with the passenger and at least one closed position in which the restraint element is in contact with at least one part of the passenger's body. The restraint element comprises at least one sensor to detect a contact between the restraint element and at least one part of the body of the passenger, preferably a contact with a passenger's thighs.



6) Family number: 20647129 (US6126552A)

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Title: Powered ride apparatus

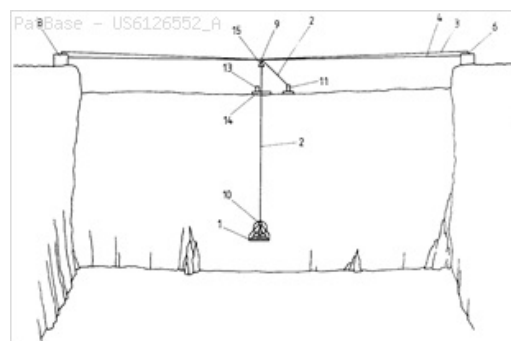
Priority: NZ19960229426 19961006 NZ19960299426 19961006 NZ19970334632 19971006
WO1997NZ00131 19971006

Family:	Publication number	Publication date	Application number	Application date
	AT274991 E	20040915	AT19970945107T	19971006

AU199746390 A1	19980505	AU19970046390	19971006
AU734995 B2	20010628	AU19970046390	19971006
CA2267686 AA	19990401	CA19972267686	19971006
DE69730532 D1	20041007	DE19976030532	19971006
DE69730532 T2	20050901	DE19976030532T	19971006
EP1009505 A1	20000621	EP19970945107	19971006
EP1009505 A4	20020102	EP19970945107	19971006
EP1009505 B1	20040901	EP19970945107	19971006
ES2227717 T3	20050401	ES19970945107T	19971006
JP2001501522 T2	20010206	JP19980517426T	19971006
NZ334632 A	19990729	NZ19970334632	19971006
PT1009505 T	20041231	PT19970945107T	19971006
US6126552 A	20001003	US19990284184	19990920
WO9815331 A1	19980416	WO1997NZ00131	19971006

Probable Assignee: NEIL HORACE HARRAP
Assignee(s):(std): HARRAP NEIL HORACE ; NEIL HORACE HARRAP
Inventor(s):(std): HARRAP NEIL HORACE ; NEIL HORACE HARRAP
Agent(s): A J PARK; AJ PARK; FETHERSTONHAUGH AND CO
Designated states: AL AM AT AU AZ BA BB BE BG BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US UZ VN YU ZW
International class (IPC 8-9): A63G31/00 A63G31/02 A63G31/08 A63G9/00 A63G9/08 A63G9/16 B64C39/02 (Advanced/Invention); A63G31/00 A63G9/00 B64C39/00 (Core/Invention)
International class (IPC 1-7): A63G31/00 A63G31/02 A63G31/08 A63G31/16 A63G9/00 A63G9/08 A63G9/16
CPC: A63G9/00 B64C39/026
European class: A63G9/00 B64C39/02D
US class: 472/118 472/130 472/133
[Classification Explorer](#)
Cited documents: WO9522385 A1, US5842928 A, US5782699 A, US4898377 A, US4790755 A, FR435238 A,
Forward Citations: WO14141195, US8684854, US7666103, US2018304163, US2013109484, US2005239563, US2004231903, US10286329, JP2013066722, EP3229931, EP3229931,

Abstract:
PCT No. PCT/NZ97/00131 Sec. 371 Date Sep. 20, 1999 Sec. 102(e) Date Sep. 20, 1999 PCT Filed Oct. 6, 1997 PCT Pub. No. WO98/15331 PCT Pub. Date Apr. 16, 1998A powered ride apparatus for swinging a rider attached to a craft through the air for excitement, comprises a support means such as a cable extending between at least two anchor points positioned substantially opposite each other at a height above the ground, and a swing cable suspended from the support means, and a craft adapted to carry a rider during a ride, attached to the lower end of the swing cable and comprising an on-board propulsion system comprising a motor driving a propeller and a steering system operable by the rider during the ride, enabling the rider to steer the craft during the ride as the craft swings on the swing cable.



7) Family number: 63922130 (US9486135B)

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Title: AMUSEMENT PARK RIDE WITH ADJUSTABLE THRILL LEVEL
Priority: US20150925085 20151028 US20160342026 20161102
Family:

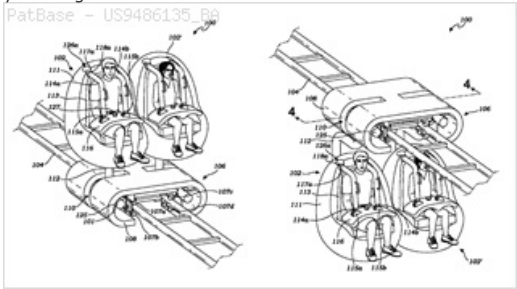
Publication number	Publication date	Application number	Application date
US9486135 BA	20161108	US20150925085	20151028
US9751022 BA	20170905	US20160342026	20161102

Probable Assignee: FRAM ERIC
Assignee(s):(std): FRAM ERIC
Inventor(s):(std): FRAM ERIC
Agent(s): CISLO AND THOMAS LLP
International class (IPC 8-9): A61B3/02 A63G7/00 B61B12/00 B61B3/00 B61D33/00 B63B3/02 (Advanced/Invention)
CPC: A61B3/02 A63G7/00 B61B3/02 B60R2021/0097
US class: 1/1
[Classification Explorer](#)

Cited documents: WO13187235 A1, WO12111481 A1, US9144745 BB, US8490550 BB, US7806054 BB, US5979333 A, US5529382 A, US5238265 A, US2015133227 AA, US2014158014 AA, US2012149480 AA, US2011089728 AA, US2010164215 AA, US2006061202 AA, US2004032157 AA,
Forward Citations: WO19221802, WO19042010, WO18200405, US10258893, US10155171, CN109195851, CN107320969, CN107320969,

Abstract:

An amusement park ride having a car with seating options above a track, below the track or adjacent to the track such that a rider may experience different thrill levels depending on the position of the car in relation to the track. The car may have a swiveling arm to position the car above, lateral to, or below the track. Alternatively, ride may have multiple cars arranged above, lateral to, or below the track for the rider to choose which position to ride in. In lieu of or in addition to the car seating options, the may have adjustable shoulder restraints that allow the rider to use the shoulder restraints or not. The shoulder restraints may be flexible or rigid, but rotatable from an upright configuration to a sideways configuration.



8) Family number: 52816149 (US2013017893A) © PatBase

Title:	INVERTED SIMULATION ATTRACTION			
Priority:	US20110182265 20110713			
Family:	Publication number	Publication date	Application number	Application date
	US2013017893 AA	20130117	US20110182265	20110713
	US8641540 BB	20140204	US20110182265	20110713

Probable Assignee: RIDE AND SHOW ENGINEERING INC
Assignee(s):(std): FEUER ROLAND ; RIDE AND SHOW ENG INC ; SELLERS MATTHEW
Assignee(s): RIDE AND SHOW ENGINEERING INC
Inventor(s):(std): FEUER ROLAND ; SELLERS MATTHEW
Agent(s): KEVIN; SHENKMAN AND HUGHES
International class A63G31/00 A63G31/06 (Advanced/Invention);
(IPC 8-9): A63G31/16 (Advanced/Non-invention)
CPC: A63G7/00 A63G21/20
US class: 434/55 472/130 472/43 472/59

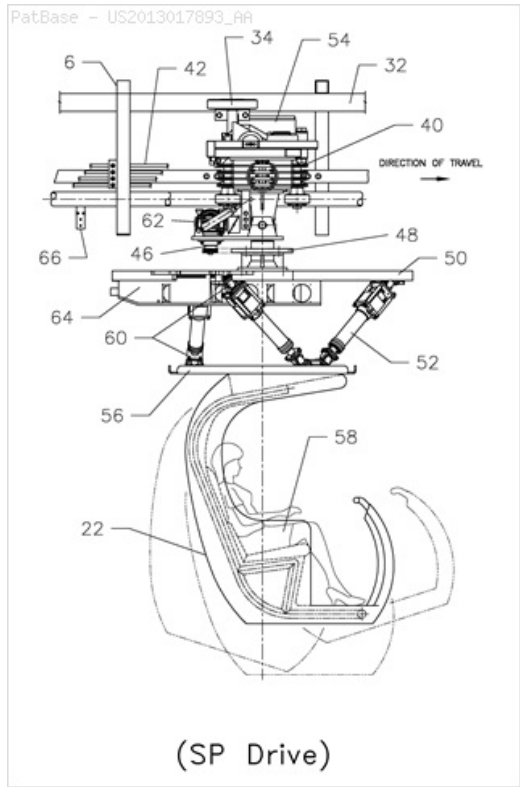
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Cited documents: US7967688 BB, US7691002 BB, US7484460 BB, US7033177 BB, US6902488 BB, US6592374 BA, US6533670 BA, US6462769 BA, US6113500 A, US6095926 A, US6007338 A, US5857917 A, US5711670 A, US5669821 A, US5623878 A, US5583844 A, US5558582 A, US5556340 A, US5551920 A, US5527221 A, US5473990 A, US5403238 A, US5366375 A, US5199875 A, US5192247 A, US5060932 A, US5022708 A, US4879849 A, US3554130 A, US2003224333 AA,

Forward Citations: US9993740, US9943773, US9908056, US9757658, US9523209, US9457282, US9266028, US2018304160, US2018297486, US2016275809, US10596460, US10514933, US10500507, US10442315, US10413836, US10357722, US10112118, US10105612, JP6615910, JP2020022814, JP2018514321, EP3292895, EP3235550, EP3235550, EP3147012, EP3147012, DE102016107239, CN106536006, CN106536006,

Abstract:

A system for patron movement and entertainment comprising a track, and at least one vehicle engaged with and positioned below the track, capable of carrying at least one patron in a passenger portion and moving along the track. Each vehicle preferably includes a motion base between the track and the passenger portion, and a turntable between the track and the motion base for rotating the passenger portion in the yaw direction, and particularly for directing the patron's viewpoint toward desired show elements.



9) Family number: 41097189 (CN101058033A)

© PatBase

Title: Virtual sea roaming system based on cognitive mutual technology and its operating method

Priority: CN200710099796 20070530

Family:	Publication number	Publication date	Application number	Application date
	CN100531839 C	20090826	CN200710099796	20070530
	CN101058033 A	20071024	CN200710099796	20070530

Probable Assignee: UNIV BEIJING SCI AND TECH

Assignee(s):(std): OF SCIENCE AND TECHNOLOGY BEIJING UNIV ; UNIV BEIJING SCI AND TECH ; UNIV BEIJING SCIENCE AND TECH ; BEIJING UNIVERSITY OF SCIENCE ; UNIV SCIENCE AND TECHNOLOGY BE

Assignee(s): BEIJING UNIVERSITY OF SCIENCE AND TECHNOLOGY ; UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING

Inventor(s):(std): BAN XIAOJUAN MENG ; XIANGSONG MENG ; XIAOJUAN BAN ; YIXIN YIN ; SHURONG NING

Inventor(s): YIN YIXIN ; NING SHURONG ; MENG XIANGSONG ; BAN XIAOJUAN ; XIAOJUAN MENG BAN

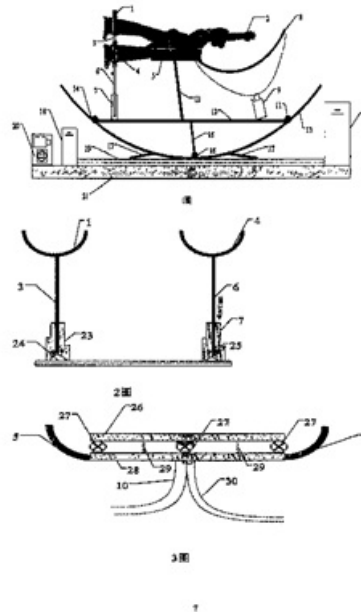
International class (IPC 8-9): A63G31/00 (Advanced/Invention)

[Classification Explorer](#)

Forward Citations: WO19028967, WO18200405, WO15196877, US10258893, CN106552416, CN102496971, CN102495598, CN102495598,

Abstract:

The invention discloses a virtual ocean roaming system based on cognition interactive technique and the operation method, belonging to virtual ocean roaming technique. The system comprises data control server, simulation thrash machine and level control board. The whole system is fixed on rubber floor, the left side is data control server and right side is virtual server. The spherical cap three-dimensional motion device is installed on aluminum plastic board, and is equipped with vertical motion orbit and horizontal motion orbit, one stainless steel board with strengthened keel is connected with orbit directly, and the servo generator on the vertical and horizontal motion orbit can drive stainless steel board to move vertically. The simulation thrash machine is fixed on one side of steel board, horizontal control board is located in the middle of steel board, and the spherical cap three-dimensional projection screen and projecting apparatus are fixed on the other side of steel board. The invention is characterized by simple structure, convenient operation and low cost.

**10) Family number: 31452233** (US2005001466A)

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Title: SEAT FOR AMUSEMENT APPARATUS

Priority: IT2003MI01166 20030610 US20030726830 20031203 US20040991547 20041117
 WO2005EP06251 20050610 US20060515145 20060831 US20070800271 20070503
 US20090606703 20091027

Family:

Publication number	Publication date	Application number	Application date
AT451959 E	20100115	AT20050750548T	20050610
CN101180110 A	20080514	CN200580046550	20050610
CN1792403 A	20060628	CN200510084682	20050718
CN1792403 B	20100609	CN200510084682	20050718
DE602005018391 D1	20100128	DE200560018391T	20050610
EP1833583 A1	20070919	EP20050750548	20050610
EP1833583 B1	20091216	EP20050750548	20050610
ITMI20031166 A0	20030610	IT2003MI01166	20030610
ITMI20031166 A1	20041211	IT2003MI01166	20030610
US2005001466 AA	20050106	US20030726830	20031203
US2005197195 AA	20050908	US20040991547	20041117
US2006293109 AA	20061228	US20060515145	20060831
US2007270230 AA	20071122	US20070800271	20070503
US2010167828 AA	20100701	US20090606703	20091027
US7632191 BB	20091215	US20030726830	20031203
US8308232 BB	20121113	US20040991547	20041117
WO06053591 A1	20060526	WO2005EP06251	20050610

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

International class (IPC 8-9): A47C7/54 A47C9/00 A63G1/00 A63G1/22 A63G1/24 A63G1/34 A63G21/04 A63G21/12 A63G21/20 A63G31/00 A63G31/16 A63G7/00 B60N2/38 B61D33/00 (Advanced/Invention); A63G1/00 A63G1/22 (Advanced/Non-invention); A63G (Subclass/Invention)

International class (IPC 1-7): A47D15/00 A63G1/34

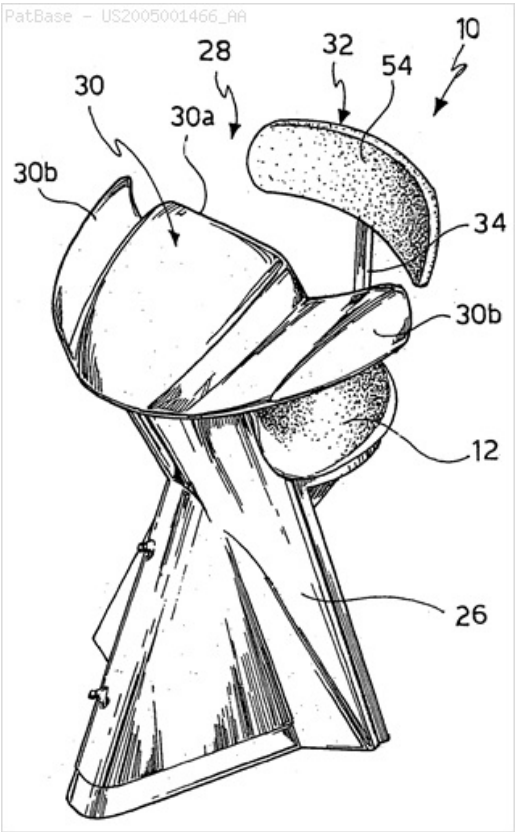
CPC: A63G7/00 A47C7/54 A47C9/002 A47C15/004 A63G21/20 A63G31/16**European class:** A47C15/00P A47C7/54 A47C9/00B A63G21/20 A63G7/00 K63G31/16

US class: 297/195.11 297/354.1 297/354.100S 297/357 297/464 297/464P 297/466 297/487 472/130 472/137 472/137P 472/3 472/37 472/37P 472/3P 472/43 472/47 472/59 472/59P

Cited documents: WO04073818 A1, USD382324 S1, USD366513 S1, USD226931 S1, US6983992 BB, US6976923 BA, US6971316 BB, US6884177 BB, US6796908 BB, US6637763 BB, US6568699 BB, US656869 A, US6349993 BA, US6287211 BA, US6206399 BA, US6171198 BA, US6123392 A, US5979333 A, US5887943 A, US5833544 A, US5827123 A, US553722 A, US5527221 A, US5342116 A, US4548136 A, US4531459 A, US4313639 A, US3993304 A, US3006642 A, US2006063137 AA, US2006 A, US2005400 A, US2005175968 AA, US2005 A, US2004032157 AA, US2004 A, US2002070599 AA, US2002 A, EP1215091 A2, DE20217754 U1, DE20217754 U, DE20217754,

Forward Citations: WO19229183, WO09064710, USD536186, US9950125, US9867949, US9808582, US9750881, US9744302, US9737670, US9707354, US9629959, US9561333, US9486583, US9446195, US9393367, US9364611, US9364610, US9333309, US9220660, US9180259, US9144648, US8945063, US8317267, US8282496, US8251441, US7987793, US7794330, US7762895, US2011111870, US2011012397, US2010236444, US2009124401, US2008081706, US2006035715, US10610649, US10568809, US10555954, US10543316, US10478560, US10478559, US10357722, US10357609, US10300212, US10286329, US10279131, US10258893, US10081325, CN104473486, CN104473486,

Abstract:
A seat for amusement apparatus, unusually suitable for allowing the user to adopt a new position on the apparatus, comprising a support and means for immobilising the user on the support. The immobilising means comprise at least one support in front of the user and opposing means suitable for acting on the user's back. The opposing means comprises an arm which can move between a lowered position in which the user can sit down on the support and a raised position in which one end of the arm abuts against the user's back.



11) Family number: 23965238 (US2003113695A) © PatBase

Title:	SKYDIVING SIMULATOR AND SKYDIVING TRAINING PROCESS USING THE SAME			
Priority:	KR20010014971 20010322 WO2002KR00480 20020321			
Family:	Publication number	Publication date	Application number	Application date
	AU2002241373 AA	20021008	AU20020241373	20020321
	JP2004519730 T2	20040702	JP20020576104T	20020321
	KR100402933 B1	20031022	KR20010014971	20010322
	KR20020074902 A	20021004	KR20010014971	20010322
	KR200235863 Y1	20011008	KR20010007923U	20010322
	US2003113695 AA	20030619	US20020240208	20020927
	US6929480 BB	20050816	US20020240208	20020321
	WO02076829 A1	20021003	WO2002KR00480	20020321
Probable Assignee:	LEE SUNG TAE			
Assignee(s):(std):	LEE SUNG TAE ; PARK BYUNG HO			
Inventor(s):(std):	LEE SUNG TAE ; PARK BYUNG HO			
Agent(s):	KAMEYA YOSHIKI; KANEMOTO TETSUO; HAGIWARA YASUSHI; SHERIDAN ROSE PC			
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 KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW			
International class (IPC 8-9):	A63B69/00 A63G31/00 B64D23/00 G09B9/00 (Advanced/Invention); A63B69/00 A63G31/00 B64D23/00 G09B9/00 (Core/Invention)			
International class (IPC 1-7):	A63B69/00 B64D23/00 G09B19/00 G09B9/00			

CPC: A63G31/00 A63G2031/005 B64D23/00
European class: A63G31/00 B64D23/00 K63G31/00S
US class: 434/247 434/258 434/258P 434/365 472/49

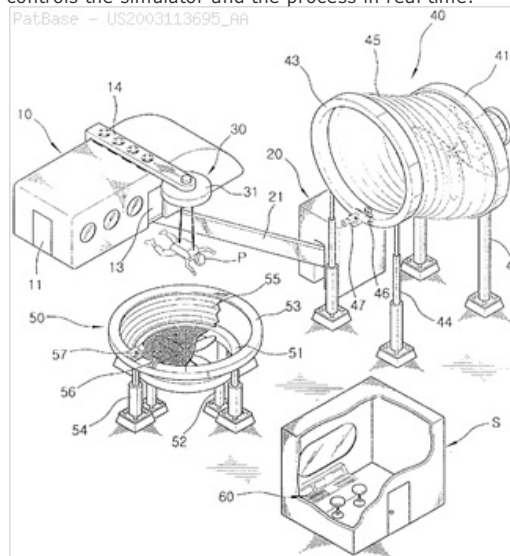
[Classification Explorer](#)

Cited documents: US6805558 BA, US6139439 A, US6000942 A, US5655909 A, US5593352 A, US4578037 A, US4073188 A, JP9104398 A2, JP8244692, JP8244691 A2, JP8244690 A2, JP8244690, JP8182788 A2, JP8182787 A2, JP8173583 A2, JP8173583, JP10156047 A2,

Forward Citations: WO18200413, WO17142462, WO17142461, WO17103768, WO10105499, WO07112733, US9682326, US7819664, US6743019, US2017043265, US2010137069, US2007287537, US2007075917, US2002164559, US10429270, US10286329, TWI404653, RU2610261, RU2544413, KR20190047311, KR20190046394, KR20180131257, KR20180117080, KR20180065107, KR20180043645, KR102048517, KR102012328, KR101566454, KR101551828, KR101551827, KR101230192, KR101212445, KR101089041, JP2005169063, ITUB20159229, EP2337005, CN107490983, CN102208141,

Abstract:

The object of this invention is to provide a skydiving simulator and a skydiving training process using the simulator, which simulates the environment and other conditions for purposes of skydiving training as if a skydiver performed a real skydiving process from the step of riding in an airplane to the step of landing on the ground. This simulator consists of a model fuselage (10), a rotary hanger unit (30) supporting a skydiver having jumped from the fuselage, and two fan units (40, 50) horizontally and upwardly forcing air currents into an open simulation space into which the skydiver jumps from the fuselage. Wind velocity sensors (46, 56) sense the velocities of the air currents from the two fan units, and CCD cameras (47, 57) produce images of the skydiver during the training process, and a central control unit (CCU, 60) controls the simulator and the process in real time.



12) Family number: 13313287 (US5688178A)

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Title: Amusement ride
Priority: US19960597141 19960206
Family:

Publication number	Publication date	Application number	Application date
US5688178 A	19971118	US19960597141	19960206

Probable Assignee: CHANCE IND INC
Assignee(s):(std): CHANCE IND INC
Assignee(s): CHANCE INDUSTRIES INC ; CHANCE IND
Inventor(s):(std): EMRIE MICHAEL W
International class
(IPC 8-9): A63G1/38 A63G1/44 A63G27/04 (Advanced/Invention);
A63G1/00 A63G27/00 (Core/Invention)

International class
(IPC 1-7): A63G1/24

CPC: A63G1/38 A63G1/44 A63G27/04
European class: A63G1/38 A63G1/44 A63G27/04
US class: 438/654 438/656 438/660 438/677 472/3 472/31

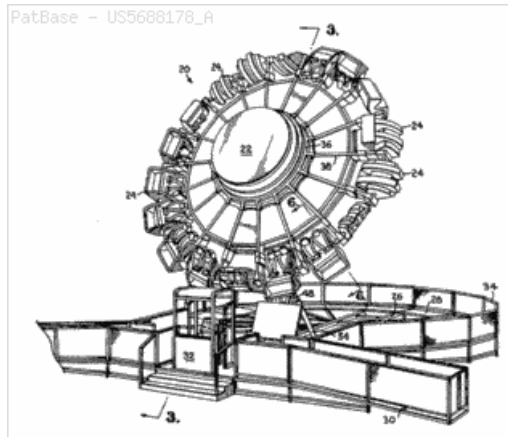
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Cited documents: US5558581 A, US4007926 A, US3904194 A, US3840225 A, US3707282 A,

Forward Citations: WO18200405, USD815201, US8084878, US7846032, US7685944, US7666103, US6634952, US6620051, US2018133605, US2008300730, US2008258466, US2007049383, US2006154735, US2006035715, US2005239563, US10576387, US10456695, US10265632, US10258893, US10081325, NL1017725, GB2538069, GB2538069, EP3216504, EP3216504, EP1245256,

Abstract:

An amusement ride is provided in which passengers can be simultaneous subjected to three different types of movement. A circular motion is provided by the circular rotation of the head which mounts the passenger seats. A tilting motion is provided by mounting the head for tilting movement as it rotates in the circular path. The third type of motion is provided by mounting the passenger seats so that they rotate about an axis tangential to the circular path in which they travel.



13) Family number: 32702370 (RU2264838C)

© PatBase

Title: ATTRACTION

Priority: RU20040116126 20040526

Family:	Publication number	Publication date	Application number	Application date
	RU2264838 C1	20051127	RU20040116126	20040526

Inventor(s):(std): SAVINOVSKIJ V G

Inventor(s): SAVINOVSKIJ VG

International class
(IPC 8-9): A63G21/00 (Advanced/Invention);
A63G21/00 (Core/Invention)

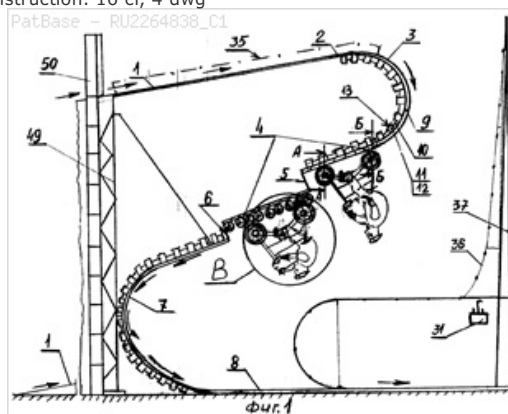
International class
(IPC 1-7): A63G21/00

[Classification Explorer](#)

Forward Citations: US10357722, US10286329, US10258893,

Abstract:

FIELD: entertainment industry, in particular, performance equipment for parks or rooms. SUBSTANCE: attraction comprises entrance platform and trace made in the form of steel sheet arranged at predetermined height. Magnet is mounted above steel sheet. Attraction also comprises automobile movable along said trace with its wheels down. Trace consists of three platforms following one another from the top to the bottom, with first platform being made in the form of descending outer surface of semi-cylinder, second platform in the form of inwardly oriented inclined linear part with downwardly directed steps of height equal to 0.3-2.0 the diameter of vehicle wheel, and third platform in the form of descending inner surface of semi-cylinder. Vehicle is, for example, motorcycle having drive for both wheels, each of said wheels being made in the form of steel disk circumferentially embraced with tire of, for example rubber ring. Electromagnets are circumferentially mounted laterally of vehicle steel wheels, with electromagnet poles being arranged for repulsion from trace. Electromagnets are controlled from control panel arranged, for example, on control surface. Motorcycle moves over trace from the top to the bottom from first platform to subsequent platforms and onto ground. EFFECT: increased entertaining effect and simplified construction. 16 cl, 4 dwg



14) Family number: 17803394 (WO0040315A1)

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Title: PERSON CARRIER FOR AMUSEMENT RIDES

Priority: DE19992000098U 19990107 WO2000EP00056 20000107

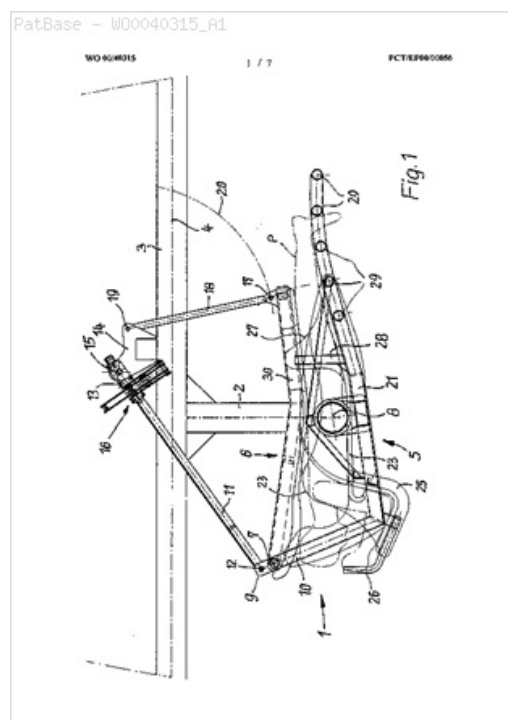
Family:	Publication number	Publication date	Application number	Application date
	DE29900098 U1	20000706	DE19992000098U	19990107
	EP1140307 A1	20011010	EP20000901509	20000107
	JP2002534175 T2	20021015	JP20000592063T	20000107
	KR20020008820 A	20020131	KR20017008654	20000107
	WO0040315 A1	20000713	WO2000EP00056	20000107

Probable Assignee: HUSS MASCHFAB GMBH AND CO

Assignee(s):(std): HUSS MASCHFAB GMBH AND CO ; SCHNIEDERS THOMAS ; SCHOELLHAMMER DIETER

Assignee(s): HUSS MASCHINENFABRIK GMBH AND CO KG ; HUSS MASCHF GMBH AND CO KG
Inventor(s):(std): SCHOELLHAMMER DIETER ; SCHNIEDERS THOMAS
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL PT SE US
International class (IPC 8-9): A63G21/04 A63G21/20 A63G7/00 (Advanced/Invention);
A63G21/20 (Advanced/Non-invention);
A63G21/00 A63G7/00 (Core/Invention)
International class (IPC 1-7): A63G21/04 A63G21/20 A63G7/00 B61B11/00 B61B12/00
CPC: A63G7/00 A63G21/20
European class: A63G21/20 A63G7/00
[Classification Explorer](#)
Cited documents: WO9825678 A1, WO9702878 A1, WO9622821 A1,
Forward Citations: WO18200410, WO06119979, WO05058445, WO0110524, US7640862, US10357722, DE102007047289,

Abstract:
The invention relates to a person carrier which is mounted on an amusement ride and which supports a single person in a lying position. Said carrier consists of a lower support and a lid which is pivotably connected to the lower support in the front area, near to the head. The lower support and the lid are essentially parallel when the carrier is closed and at an angle to each other when it is open. The invention is characterised in that the support (5) can pivot about a bearing axis (8) which is fixed in relation to the fixing of the person carrier (1) on the amusement ride. Said bearing axis runs parallel to the pivot pin (7) between the support (5) and the lid (6) in an area through which the vertical through the centre of gravity of the occupied person carrier (1) passes when the carrier is closed. The invention is also characterised in that a pull and push mechanism (rod 11) which is linked to a holding device (14) above the lid (6), said holding device (14) being stationary and set back in relation to the bearing axis (8), acts upon one of the support (5) and the lid (6) in the area of the pivot pin (7) between them, in an articulated manner; and in that a control arm (18) is linked by one end to the rear (17) area of the lid (6) and by its other end (at 19) to the holding device (14).



15) Family number: 12153402 (US6042382A)

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Title: Sustained G-force centripetal acceleration apparatus and method
Priority: US19960754492 19961120
Family:

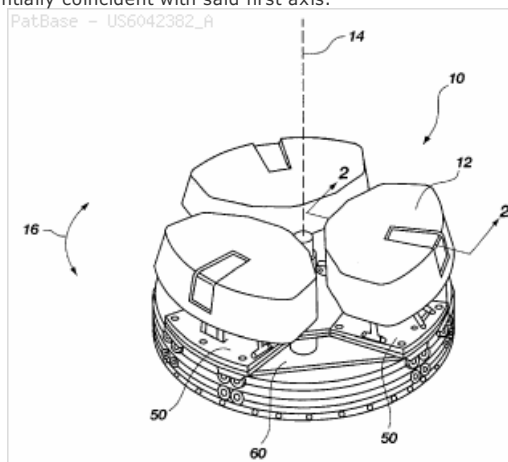
Publication number	Publication date	Application number	Application date
US6042382 A	20000328	US19960754492	19961120

Probable Assignee: HALFHILL ROBERT
Assignee(s):(std): HALFHILL ROBERT
Inventor(s):(std): HALFHILL ROBERT
International class (IPC 8-9): A63G1/26 A63G31/16 (Advanced/Invention);
A63G1/00 A63G31/00 (Core/Invention)
International class (IPC 1-7): A63G31/16 G09B9/10
CPC: A63G1/26 A63G31/16
European class: A63G1/26 A63G31/16
US class: 434/55 434/59 472/31 472/39 472/47 472/60
[Classification Explorer](#)

Cited documents: US5564983 A, US5558582 A, US5499920 A, US5498161 A, US5395290 A, US5197010 A, US5052932 A, US5051094 A, US4973042 A, US487490 A, US4710128 A, US4295387 A, US3732630 A, US3628829 A, US3436841 A, US3209468 A, US3196557 A, US3136075 A, US2864615 A, US2319327 A, US2101274 A, US2017099 A, US1863653 A, US1789680 A, US1521858 A, SU1715373 T, EP0562428 A1,
Forward Citations: WO18200405, WO11068566, WO06050677, US9758263, US9707475, US8931741, US8734157, US8137205, US8038541, US7407385, US6888073, US6719563, US6632092, US6533670, US6279059,

Abstract:

A centripetal acceleration movement apparatus includes a base support having a rotatable portion rotatably disposed about a first axis. A plurality of carrying pods are attached to the rotatable portion of the base support and are positioned remotely with respect to the first axis for carrying at least one passenger. A rotating device is provided for rotating the rotatable portion of the base support about the first axis and thereby causing the attached carrying pod to (i) orbit the first axis along an orbital movement path and (ii) apply a centripetal force to the at least one passenger. A motion picture device is provided for producing a motion picture display confined to orbital movement with the carrying pods in a manner sufficient to enable the motion picture display to be viewed by a seeing passenger being carried by the carrying pods. The apparatus may also include variable balancing means for counter-balancing the carrying pods about the first axis responsive to changes in position of the center of mass of the carrying pods, to thereby maintain the center of mass substantially coincident with said first axis.



16) Family number: 12752413 (US5551920A)

© PatBase

Title: Motion base
Priority: US19940267787 19940628
Family:

Publication number	Publication date	Application number	Application date
US5551920 A	19960903	US19940267787	19940628

Probable Assignee: DISNEY ENTERPRISES INC
Assignee(s):(std): WALT DISNEY PROD
Assignee(s): DISNEY ENTERPRISES INC ; THE WALT DISNEY COMPANY ; WALT DISNEY CO
Inventor(s):(std): FRITZ EDWARD ; SNODDY JON H ; BURKAT ALEXANDER ; OGDEN ANDREW M
International class (IPC 8-9): A63G31/16 G09B9/02 (Advanced/Invention); A63G31/00 G09B9/02 (Core/Invention)
International class (IPC 1-7): A63G31/16
CPC: A63G31/16 G09B9/02
European class: A63G31/16 G09B9/02
US class: 434/55 472/130 472/59

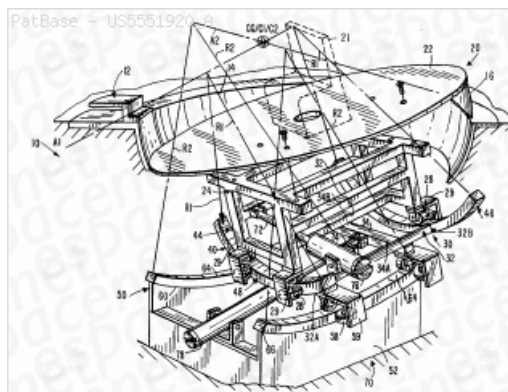
[Classification Explorer](#)

Cited documents: US4995603 A, US4824099 A, US4303236 A, US4251140 A,

Forward Citations: WO18200405, WO10076348, WO05004082, WO05004082, WO0041156, US9868332, US9694235, US9205301, US9126121, US8641540, US8447824, US7753442, US7727117, US7699755, US7644985, US7530929, US6629896, US6563489, US5951018, US5911634, US5772513, US2018162186, US2016195923, US2015011362, US2014243156, US2011124468, US2009031036, US2008146336, US2007298883, US2007155589, US2007132287, US2006217243, US2006211543, US2006205565, US2005277092, US2004015983, US10513161, US10258893, GB2326111, CN102281930,

Abstract:

A motion base for an apparatus for subjecting a user to sensory experience is provided. The motion base has a motion generator for moving a platform about at least one axis of rotation. The platform supports the user such that the user's center of gravity is substantially coincident with the center of rotation of the platform. The active elements of the motion generator are separate from the elements that support the weight of the apparatus and the user.



Title: Amusement device and vehicle suitable for being used in such an amusement device

Priority: NL19951000774 19950711 WO1996NL00275 19960704

Family:	Publication number	Publication date	Application number	Application date
	AT214624 E	20020415	AT19960922278T	19960704
	AU199662937 A1	19970210	AU19960062937	19960704
	CA2225171 AA	19971218	CA19962225171	19960704
	CA2225171 C	20041207	CA19962225171	19960704
	DE69620040 D1	20020425	DE19966020040	19960704
	DE69620040 T2	20020926	DE19966020040T	19960704
	EP0958013 A1	19991124	EP19960922278	19960704
	EP0958013 B1	20020320	EP19960922278	19960704
	JP2000507837 T2	20000627	JP19970505701T	19960704
	NL1000774 C2	19970114	NL19951000774	19950711
	US5979333 A	19991109	US19980003254	19980106
	WO9702878 A1	19970130	WO1996NL00275	19960704

Probable Assignee: VEKOMA RIDES ENGINEERING BV

Assignee(s):(std): CLERX PETRUS JOSEPH HUBERTUS ; HOUBEN JACOB HUBERT MARIE ; VEKOMA INT BV ; VEKOMA INTERNAT B V ; VEKOMA INTERNATIONAL B V ; VERKOMA TECHNOLOGY BV ; VEKOMA TECH BV ; VERKOMA TECHNOLOGY B V

Assignee(s): VEKOMA TECHNOLOGY B V ; VEKOMA TECHNOLOGY B V VLODROP ; VEKOMA TECHNOLOGY SCHAAPWEG BV ; VEKOMA TECHNOLOGY BV ; VEKOMA RIDES ENGINEERING BV

Inventor(s):(std): HOUBEN JACOB HUBERT MARIE ; CLERX PETRUS JOSEPH HUBERTUS ; HOUBEN JACOB H M ; CLERX PETRUS J H ; HOUBEN HUBERT ; CLERX JOSEPH

Inventor(s): PETRUS JOSEPH HUBERTUS CLERX ; JACOB HUBERT MARIE HOUBEN

Agent(s): MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP

Designated states: AL AM AT AU AZ BB BE BG BR BY CA CH CN CZ DE DK EE ES FI FR GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

International class (IPC 8-9): A63G21/22 A63G7/00 (Advanced/Invention); A63G21/00 A63G7/00 (Core/Invention)

International class (IPC 1-7): A63G1/00 A63G21/10 A63G21/12 A63G21/22 A63G21/4 A63G7/00

CPC: A63G7/00 A63G21/22

European class: A63G21/22 A63G7/00

US class: 104/63 104/89 104/93 105/148 105/150

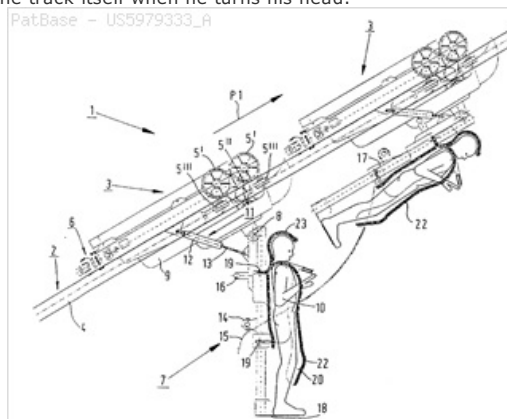
[Classification Explorer](#)

Cited documents: WO9622821 A1, US5372072 A, US5272984 A, US5224425 A, US4004654 A, EP0545860 B1, EP0545860 A1, DE3237684 A1,

Forward Citations: WO9922831, WO9922830, WO9922829, WO20032805, WO18212653, WO18200413, WO10093984, WO10093984, WO06053591, WO03063991, WO0126764, WO0110524, WO0040315, WO0035723, USD616055, USD583435, USD567893, USD552704, USD550802, USD537899, US9751022, US9440156, US9393496, US9120023, US8943976, US8453576, US8308232, US8166885, US7987793, US7980181, US7918740, US7762895, US7699140, US7640862, US7632191, US7594473, US6637341, US6513441, US6405655, US6269750, US2018304163, US2018304160, US2015114249, US2014165868, US2011132224, US2010236444, US2009031913, US2008113822, US2008081706, US2007270230, US2007010336, US2006293109, US2006157298, US2005197195, US2005001466, US2004077415, US10500507, US10357722, US10286329, US10258893, NL1023253, NL1010838, NL1007412, NL1007411, NL1007410, KR101217805, JP6615910, JP2020022814, JP2018514321, JP11226266, GB2363737, GB2363737, EP2572767, EP2572767, EP1201280, EP1201280, EP1201280, EP1027114, DE29900098, DE102014104636, CN110327629, CN102844084, CN100441257, AU2006266570,

Abstract:

An amusement device includes a guide structure forming an endless track, along which a vehicle capable of accommodating at least one person can travel, and where a person present in the vehicle extends substantially parallel to the track during operation. The person present in the vehicle lies with his back towards the track and with his face directed away from the track. The person's view is not impeded by other vehicles and he can only see the track itself when he turns his head.



Title: A FLYING THEATRE SYSTEM

Priority: GB20170018566 20171109 GB20180009130 20180604

Family:

Publication number	Publication date	Application number	Application date
GB201718566 A0	20171227	GB20170018566	20171109
GB201809130 A0	20180718	GB20180009130	20180604
WO19092402 A1	20190516	WO2018GB53173	20181101

Probable Assignee: HOLOVIS INT LTD

Assignee(s):(std): HOLOVIS INT LTD

Inventor(s):(std): CLIFF PETER ; HETHERINGTON STUART ANDREW

Agent(s): BROTHERS CHRISTOPHER 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

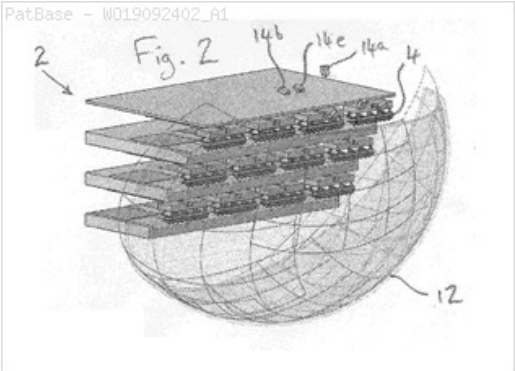
International class (IPC 8-9): A63G31/16 A63J25/00 (Advanced/Invention)

CPC: A63J25/00 A63G31/16

[Classification Explorer](#)

Cited documents: WO18200413 A1, US8474191 BB, US6354954 BA, EP2821116 A1, CN101966394 A,

Abstract:
Apparatus comprising a seating unit mounted on a transporting device for transporting the seating device from a first boarding position along guiding means to a second ride position in which the seating unit is rotated about an axis to a face-down position, wherein in the ride position, the seating unit is located above a display screen.



19) Family number: 62010583 (US2016114252A) © PatBase

Title: SUSPENDED AMUSEMENT RIDE SYSTEM

Priority: US20140069428P 20141028 EP20150854509 20150402 EP20150854994 20150402
US20150677804 20150402 US20150677179 20150402 EP20150855711 20150402
US20150677814 20150402 WO2015US24126 20150402 WO2015US24111 20150402
WO2015US24120 20150402

Family:	Publication number	Publication date	Application number	Application date
	CA2965098 AA	20170419	CA20152965098	20150402
	CA2965784 AA	20170425	CA20152965784	20150402
	CA2965789 AA	20170425	CA20152965789	20150402
	CN107405000 A	20171128	CN201580070973	20150402
	CN107405524 A	20171128	CN201580070832	20150402
	CN107405524 B	20191025	CN201580070832	20150402
	CN107428514 A	20171201	CN201580070980	20150402
	CN107428514 B	20190924	CN201580070980	20150402
	DE602015035565 D1	20190829	DE201560035565T	20150402
	DE602015040863 D1	20191121	DE201560040863T	20150402
	EP3212038 A1	20170906	EP20150854509	20150402
	EP3212038 A4	20181031	EP20150854509	20150402
	EP3212038 B1	20191030	EP20150854509	20150402
	EP3212299 A1	20170906	EP20150855711	20150402
	EP3212299 A4	20181024	EP20150855711	20150402
	EP3212559 A1	20170906	EP20150854994	20150402
	EP3212559 A4	20180425	EP20150854994	20150402
	EP3212559 B1	20190807	EP20150854994	20150402
	EP3441346 A1	20190213	EP20180197756	20150402
	EP3453668 A1	20190313	EP20180200202	20150402
	HK1236076 A1	20180323	HK20170109955	20170929
	HK1236151 A1	20180323	HK20170109956	20170929
	HK1236177 A1	20180323	HK20170109932	20170929
	KR20170098218 A	20170829	KR20177014495	20150402
	KR20170099876 A	20170901	KR20177014504	20150402
	KR20170100492 A	20170904	KR20177014490	20150402
	SG11201703316U A1	20170530	SG20171103316	20150402
	SG11201703317Y A1	20170530	SG20171103317	20150402
	SG11201703318W A1	20170530	SG20171103318	20150402

US2016114252 AA	20160428	US20150677814	20150402
US2016115700 AA	20160428	US20150677804	20150402
US2016116110 AA	20160428	US20150677179	20150402
US9302190 BA	20160405	US20150677814	20150402
US9303421 BA	20160405	US20150677804	20150402
US9732535 BB	20170815	US20150677179	20150402
WO16069054 A1	20160506	WO2015US24111	20150402
WO16069055 A1	20160506	WO2015US24120	20150402
WO16069056 A1	20160506	WO2015US24126	20150402

Probable Assignee: OCEANEERING INT INC

Assignee(s):(std): OCEANEERING INT INC ; OCEANEERING INT INC

Assignee(s): OCEANEERING INT INC HOUSTON ; JENNINGS CLIFFORD ALLEN

Inventor(s):(std): JENNINGS CLIFFORD ALLEN ; CLIFFORD ALLEN JENNINGS

Inventor(s): JENNINGS CLIFFORD ALLEN HIGHLAND

Agent(s): SMART AND BIGGAR; DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELTEN U RECHTSANWAELTEN MBB; WP THOMPSON; SIT FUNG KWONG AND SHUM; MAZE IP LAW PC; MAZE GARY ROBIN

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

International class (IPC 8-9): A47C A47C1/12 A63F5/00 A63G A63G31/02 A63G31/16 A63J1/02 A63J25/00 A63J5/00 A63J5/12 B66C B66C13/06 B66D1/40 B66D1/60 E04H3/30 F16M13/02 (Advanced/Invention); A63J5/12 F16M13/00 (Advanced/Non-invention)

CPC: A63F5/00 A63G31/02 A63G31/16 A63J1/02 A63J5/00 A63J25/00 A63J2005/002 E04H3/30 F16M13/022

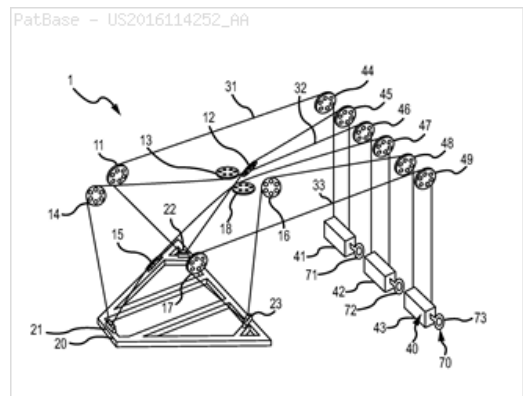
US class: 1/1 248/329 297/232 472/59 52/10

[Classification Explorer](#)

Cited documents: WO14043727 A1, WO14043727 A1, US8961326 BB, US8920251 BB, US8909379 BB, US8721464 BB, US8684854 BB, US8444496 BB, US8147344 BB, US7624684 BB, US6406299 BA, US6354954 BA, US5513990 A, US5377787 A, US5377787 A, US4932541 A, US4932541 A, US4883184 A, US4883184 A, US3998336 A, US3998336 A, US3591022 A, US3591022 A, US2014274431 AA, US2014259968 AA, US2014259968 AA, US2013126457 AA, US2013126457 AA, US2013109484 AA, US2012298825 AA, US2012298825 AA, US2011083577 AA, US2009038499 AA, US2007114505 AA, US2007114505 AA, US2002193170 AA, US1888050 A, US1888050 A, FR2799455 A1, FR2799455 A1, EP2394720 A2, EP2394720 A2, DE19856097 A1, DE19856097 A1, CN2114493 U, CN1994848 A, CN1800969 A, CN102309853 A,

Forward Citations: US9927105, US2019077518, US10577127, US10500507, US10413836, US10357722, US10351260, US10286329, US10112118, CN106185624,

Abstract:
Various embodiments of load carrying systems comprise a load supporting frame comprising three or more connection points and an associated set of lifts configured which define six separate triangles defining separate planes configured to brace against surge, sway and yaw with respect to a support frame, such as unintended or unwanted surge, sway and yaw, while allowing intended and/or desired surge, sway and yaw.



20) Family number: 72980587 (US2019026946A)

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Title: SYSTEMS AND METHODS FOR VIRTUAL REALITY AND AUGMENTED REALITY PATH MANAGEMENT

Priority: US20170653214 20170718 WO2018US41489 20180710

Family:

Publication number	Publication date	Application number	Application date
CA3068472 AA	20191223	CA20183068472	20180710
CN110869098 A	20200306	CN201880047925	20180710
IN201917053551 A	20200214	IN201917053551	20191223
KR20200030574 A	20200320	KR20207004356	20180710
US2019026946 AA	20190124	US20170653214	20170718
WO19018163 A1	20190124	WO2018US41489	20180710

Probable Assignee: UNIVERSAL CITY STUDIOS LLC

Assignee(s):(std): UNIVERSAL CITY STUDIOS LLC

Assignee(s): JONES MATTHEW PRESTON

Inventor(s):(std): JONES MATTHEW PRESTON

Agent(s): CRAIG WILSON AND CO; POWELL W ALLEN 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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU
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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
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International class
(IPC 8-9):

CPC:

US class:

[Classification Explorer](#)

Cited documents:

Forward Citations:

A63G21/20 A63G31/16 A63G7/00 G02B27/01 G06T19/00 (Advanced/Invention)

G06T19/006 A63G31/00 G06T19/003 G02B27/017 A63G31/16 A63G21/20 G06T19/00

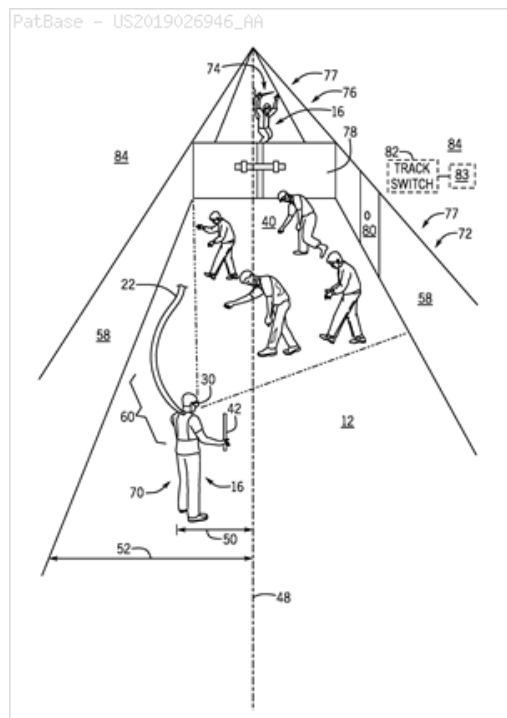
1/1 715/757

US6227121 BA, US6007338 A, US2018304162 AA, US2016346704 AA, US2007089630 AA, GB2542434 A1,

US9925257, US9884108, US10549153,

Abstract:

In accordance with one embodiment, a ride attraction system includes a track, a bogie coupled to the track and configured to move along the track, and an attachment coupled to the bogie and configured to couple a user to the bogie. The ride attraction system also includes an image controller coupled to the bogie and configured to supply virtual reality (VR) and/or mixed reality (MR) images to the user via headgear.



21) Family number: 47638598 (EP2253362A1)

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Title: AMUSEMENT RIDE

Priority: DE200910003130 20090514

Family:

Publication number	Publication date	Application number	Application date
CN101890238 A	20101124	CN201010171778	20100513
CN101890238 B	20131030	CN201010171778	20100513
EP2253362 A1	20101124	EP20100162516	20100511

Probable Assignee: MAURER FRIEDRICH SOEHNE

Assignee(s):(std): MAURER FRIEDRICH SOEHNE

Assignee(s): MAURER SOEHNE GMBH AND CO KG

Inventor(s):(std): BEUTLER JOERG ; JOERG BEUTLER

Agent(s): LERMER CHRISTOPH

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class
(IPC 8-9): A63G21/04 A63G7/00 (Advanced/Invention)

CPC: A63G7/00

European class: A63G7/00

[Classification Explorer](#)

Cited documents: WO06080845 A1, US6341564 BA, US5595121 A, US5590605 A, US5456184 A, US4036147 A, US3919944 A, US3680487 A, US2002185569 AA, JP8150264 A2, FR557537 A,

Forward Citations: US10357722, US10286329, US10258893,

Abstract:

The fun ride has a driving route (1) and a chassis (2) arranged along the driving route in a movable manner. The driving route has a mounting device for mounting a motor-driven vehicle (4) on the chassis. The mounting device is arranged on the chassis. The driving route has a guide device for a guided movement of the chassis along the driving route.

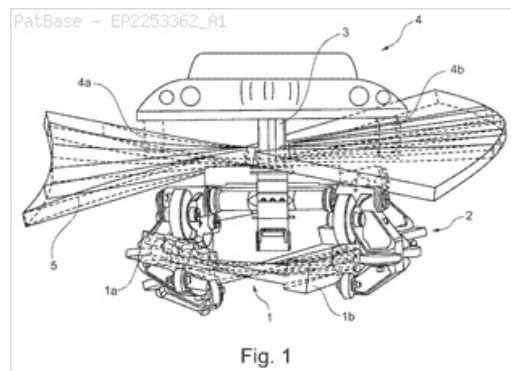


Fig. 1

22) Family number: 29177609 (US2006178221A)

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Title: AMUSEMENT RIDE
Priority: US20020367051P 20020322 US20030396178 20030324 WO2003US09019 20030324
 US20090357392 20090121

Family:	Publication number	Publication date	Application number	Application date
	AU2003218369 AA	20031013	AU20030218369	20030324
	AU2003218369 AH	20031013	AU20030218369	20030324
	CA2479025 AA	20040910	CA20032479025	20030324
	EP1494771 A2	20050112	EP20030714366	20030324
	EP1494771 A4	20061004	EP20030714366	20030324
	JP2005520665 T2	20050714	JP20030579950T	20030324
	US2006178221 AA	20060810	US20030396178	20030324
	US2009126596 AA	20090521	US20090357392	20090121
	US8066576 BB	20111129	US20090357392	20090121
	WO03082421 A2	20031009	WO2003US09019	20030324
	WO03082421 A3	20040108	WO2003US09019	20030324

Probable Assignee: THRELKEL DAVID V
Assignee(s):(std): THRELKEL DAVID V
Inventor(s):(std): THRELKEL DAVID V
Inventor(s): DAVID V THRELKEL ; THRELKEL DAVID
Agent(s): GOWLING LAFLEUR HENDERSON LLP; KELLY LOWRY AND KELLEY LLP; JAMES SONNTAG JAMES SONNTAG PATENT ATTORNEY
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 LI 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 SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

International class (IPC 8-9): A63G1/00 A63G21/00 A63G21/04 A63G21/08 A63G29/00 A63G31/06 A63G31/16 A63G7/00 (Advanced/Invention); A63G31/00 (Advanced/Non-invention)

International class (IPC 1-7): A63G21/00 A63G21/04 A63G29/00 A63G31/16

CPC: A63G7/00 A63G21/04 A63G21/08 A63G31/16 A63G2031/002

European class: A63G21/04 A63G21/08 A63G31/16 A63G7/00 K63G31/00F

US class: 104/53 104/53S 104/75 104/75P 472/1 472/131 472/1P 472/47

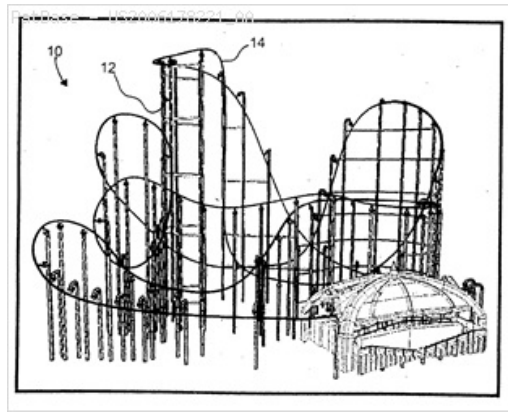
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Cited documents: US846925 A, US6808459 BB, US6755749 BB, US6220171 BA, US5759107 A, US5725435 A, US5558581 A, US5060932 A, US5060932, US4170943 A, US4170943, US2535862 A, US2535862, US2499470 A, JP285286, JP1285286 A2, JP1285286,

Forward Citations: WO19134034, WO19091589, WO18200413, WO17155248, WO17155194, WO17155193, WO16161122, WO16151113, WO15040195, WO11113932, WO09137169, WO07055572, WO06089918, WO06089918, US9996975, US9962617, US9764246, US9675893, US9494147, US9463394, US9440156, US9267242, US9259655, US9144745, US9062418, US8943976, US8683923, US8641542, US8636600, US8579714, US8512289, US8511579, US8491403, US8393357, US8393275, US8360893, US8356996, US8328651, US8167846, US8141495, US8066200, US8065963, US8038541, US7980181, US7921781, US7918740, US7806054, US7640862, US7610859, US7594473, US2018365896, US2018133605, US2015269780, US2015267354, US2015114249, US2014230340, US2014165868, US2014053752, US2013108992, US2013012327, US2012137921, US2012083347, US2011319178, US2011088584, US2011009825, US2010326313, US2010326312, US2010275809, US2010216097, US2010133034, US2010105012, US2009272289, US2009230205, US2009120319, US2009031913, US2009013896, US2008300730, US2008173208, US2008113822, US2007199474, US2007010336, US10593115, US10576387, US10572000, US10528123, US10398990, US10315120, US10289194, US10286329, US10258893, US10155171, US10065123, TWI440499, NL1030415, KR20170106164, KR20170106162, KR101914141, KR101914140, KR101885128, KR101885127, JP6368514, JP5252145, JP4977089, JP4486398, JP2018531655, JP2014210170, JP2011519604, JP2009292237, JP2008526313, JP2005296486, ES2381547, EP3626322, EP3560567, EP3436913, EP3274062, EP3216503, EP3055039, EP2173446, EP2173446, EP2113292, EP2024046, EP2024046, EP1944069, DE202010000403, DE102007052825, CN108712924, CN107533377, CN105722565, CN105722565,

Abstract:

An amusement ride, such as a roller coaster or vertical tower track ride, includes an attachment assembly movably connected to a track system. A vehicle assembly is connected to the attachment assembly and includes a seat assembly having at least one rider seat. The vehicle assembly is coupled to the attachment assembly and configured such that the seat assembly is capable of fully rotating about first and second, and preferably even third axes independent of the track system.



23) Family number: 34486684 (WO07055572A1)

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Title: VEHICLE FOR AN AMUSEMENT DEVICE

Priority: NL20051030415 20051114 NL20051030415 20051114

Family:	Publication number	Publication date	Application number	Application date
	NL1030415 C2	20070515	NL20051030415	20051114
	WO07055572 A1	20070518	WO2006NL00565	20061112

Probable Assignee: VEKOMA RIDES ENG BV

Assignee(s):(std): CLERX PETRUS JOSEPH HUBERTUS ; ROODENBURG JOOP ; SINTENIE SJOERD ; VEKOMA RIDES ENG BV ; VEKOMA RIDES ENGINEERING B V ; VEKOMA RIDES ENGINEERING BV

Inventor(s):(std): ROODENBURG JOOP ; CLERX PETRUS JOSEPH HUBERTUS ; SINTENIE SJOERD ; CLERX PETER JOSEPH HUBERTUS

Inventor(s): JOOP ROODENBURG ; SJOERD SINTENIE ; PETER JOSEPH HUBERTUS CLERX

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR 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 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

International class (IPC 8-9): A63G7/00 (Advanced/Invention);
A63G1/08 (Advanced/Non-invention);
A63G7/00 (Core/Invention);
A63G1/00 (Core/Non-invention)

CPC: A63G1/28 A63G7/00

European class: A63G1/28 A63G7/00

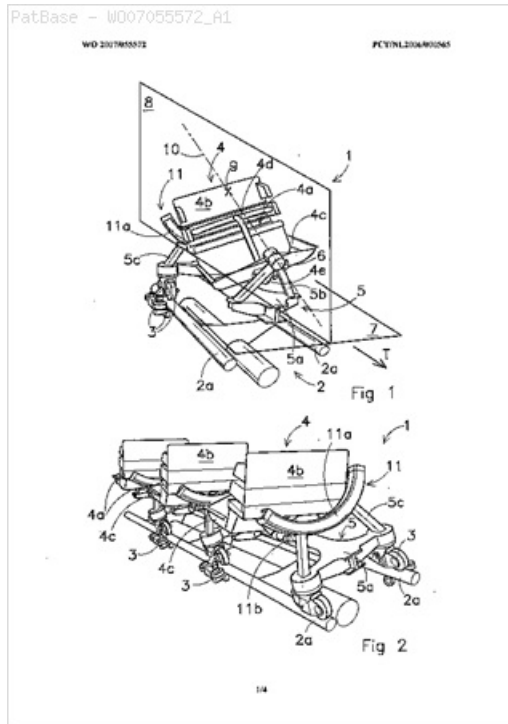
[Classification Explorer](#)

Cited documents: WO03082421 A2, US5623878 A, US2002068641 AA, NL9401636 A, GB226914 A, GB191418743 A, DE20021936 U1, CH658431,

Forward Citations: WO12039601, US9162150, US8636600, US8360893, US8328651, US10525361, US10357722, US10286329, US10258893, EP3452193, EP3452193, EP2618900,

Abstract:

A vehicle for an amusement device comprises a seating section with one or more seating places for one or more passengers, and a conveyance section designed to move forward in a direction of conveyance, preferably along a corresponding (endless) conveyor track of the amusement device. At least one bearing is provided between the conveyance section and the seating section, which bearing defines an axis of rotation about which the seating section of the vehicle is movable. The conveyance section comprises a first imaginary plane which extends parallel to the direction of conveyance, the axis of rotation lying in a second imaginary plane which extends substantially perpendicularly to the first imaginary- plane, which axis of rotation forms an angle with the first imaginary plane.



24) Family number: 42961707 (US2011048274A)

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Title: ROLLERCOASTER AMUSEMENT DEVICE

Priority: WO2007NL00200 20070816 EP20080793813 20080818 EP20120193235 20080818
WO2008NL00192 20080818

Family:	Publication number	Publication date	Application number	Application date
	CN101820960 A	20100901	CN200880103001	20080818
	CN101820960 B	20130313	CN200880103001	20080818
	DE602008020301 D1	20130117	DE200860020301T	20080818
	DE602008045268 D1	20160901	DE200860045268T	20080818
	DK2175951 T3	20130304	DK20080793813T	20080818
	EP2175951 A2	20100421	EP20080793813	20080818
	EP2175951 B1	20121121	EP20080793813	20080818
	EP2572767 A1	20130327	EP20120193235	20080818
	EP2572767 B1	20160720	EP20120193235	20080818
	US2011048274 AA	20110303	US20080673410	20080818
	US8453576 BB	20130604	US20080673410	20080818
	WO09022905 A2	20090219	WO2008NL00192	20080818
	WO09022905 A3	20090430	WO2008NL00192	20080818

Probable Assignee: VEKOMA RIDES ENGINEERING BV

Assignee(s):(std): CLERX PETRUS JOSEPH HUBERTUS ; ROODENBURG JOOP ; VEKOMA RIDES ENG BV ; VEKOMA RIDES ENGINEERING B V

Assignee(s): VEKOMA RIDES ENGINEERING BV

Inventor(s):(std): ROODENBURG JOOP ; CLERX PETRUS JOSEPH HUBERTUS ; HUBERTUS CLERX PETRUS JOSEPH ; JOOP ROODENBURG

Agent(s): KRAUS AND WEISERT PATENTANWAELTE PARTGMBB; RAU SCHNECK AND HUEBNER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; DE GRAVE WOLTERINK ISABELLE; EP AND C; BIRCH STEWART KOLASCH AND BIRCH LLP; WOLTERINK I J C M E

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 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 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

International class (IPC 8-9): A47C31/00 A63G1/00 A63G21/20 A63G7/00 B61B3/00 (Advanced/Invention); A63G21/00 A63G7/00 (Core/Invention)

CPC: A63G21/20 A63G7/00

European class: A63G21/20 A63G7/00

US class: 104/53 104/53P 104/63 105/148 297/466

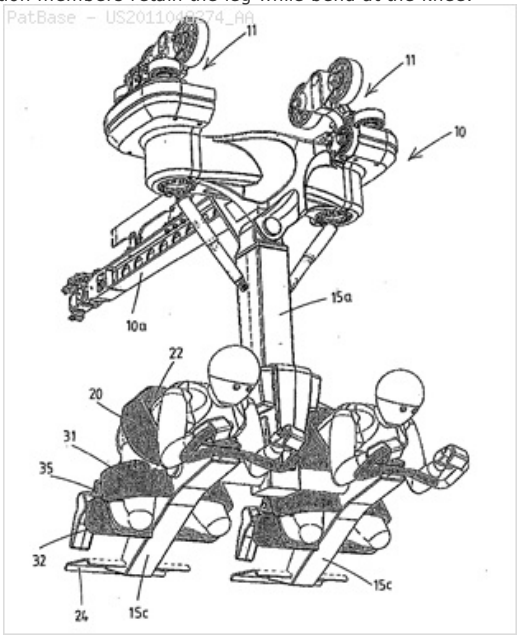
[Classification Explorer](#)

Cited documents: WO9922830 A1, WO9922830 A1, WO9702878 A1, WO9702878 A1, WO9622821 A1, WO9622821 A1, WO07004904 A1, WO04073818 A1, WO04073818, WO04035164 A1, US4531459 A, US4531459 A, US2002070599 AA, EP1215091 A2, EP1215091, EP1201280 A2, EP1201280 A2,

Forward Citations: WO19195469, WO19091589, WO18200413, WO18200410, WO12039601, US9962617, US9643094, US9440156, US9393496, US9120023, US8943976, US2018304160, US2016325188, US2015114249, US2014165868, US10500507, US10413836, US10357722, US10286329, US10258893, US10155171, EP3055039, EP2618900, CN107982922, CN105413179, CN105413179, CN104712704, CN103363908, CN103153412, CN103153412, CN101966394, CN101934145,

Abstract:

A rollercoaster amusement device adapted to provide for the passengers a ride wherein the passengers experience at least a portion of the ride in a racing position, the amusement device wherein an endless guide structure at least including multiple curves, one or more carriages displaceable along the guide structure, a passenger assembly associated with a carriage, said passenger assembly being adapted to accommodate at least one passenger such that said passenger experiences at least a portion of the ride in a racing position, a station along said guide structure allowing the passenger to board the passenger assembly. The passenger assembly includes a frame that is connected to the carriage, the frame at least being provided with: a chest support, a back restraining member, and a leg restraining device for each leg, such that in the racing position: the passenger's head is directed forward, the passenger's trunk is resting with its chest side on the chest support, the back restraining member restrains motion of the passenger away from the chest support, the leg restraining devices each hold the respective leg such that the upper leg is angled downward with respect to the trunk and the leg is bend at the knee so that the lower leg is angled rearward with respect to the upper leg. A leg restraining device for restraining a leg includes an upper leg retention member adapted to engage at least the front side of the upper leg, a lower leg retention member adapted to engage at least the front side of the lower leg, so that the upper and lower leg retention members retain the leg while bend at the knee.



25) Family number: 40845711 (US2010236444A) © PatBase

Title:

AMUSEMENT RIDE DEVICE

Priority:

EP20060757785 20060524 WO2006NL00266 20060524

Family:

Publication number	Publication date	Application number	Application date
DE602006033218 D1	20130117	DE200660033218T	20060524
DK2024045 T3	20130304	DK20060757785T	20060524
EP2024045 A1	20090218	EP20060757785	20060524
EP2024045 B1	20121121	EP20060757785	20060524
US2010236444 AA	20100923	US20060302005	20060524
US7987793 BB	20110802	US20060302005	20060524
WO07136245 A1	20071129	WO2006NL00266	20060524

Probable Assignee:

VEKOMA RIDES ENGINEERING BV

Assignee(s):(std):

BLONK STEFANUS PETRUS CORNELIS ; BLONK STEFANUS PETRUS CORNELIS MARIA ; ROODENBURG JOOP ; VEKOMA RIDES ENG BV ; VEKOMA RIDES ENGINEERING B V

Assignee(s):

VEKOMA RIDES ENGINEERING BV

Inventor(s):(std):

ROODENBURG JOOP ; BLONK STEFANUS PETRUS CORNELIS ; BLONK STEFANUS PETRUS CORNELIS MARIA

Agent(s):

WOLTERINK ISABELLE; DE GRAVE WOLTERINK ISABELLE; BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP

Designated states:

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

International class (IPC 8-9):

A63C19/10 A63G1/00 A63G21/20 A63G31/02 A63G7/00 (Advanced/Invention); A63G21/00 A63G31/00 A63G7/00 (Core/Invention)

CPC:

A63G21/20 A63G7/00

European class:

A63G21/20 A63G7/00

US class:

104/53 104/53P 104/75 472/88

Classification Explorer

Cited documents:

US7632191 BB, US7632191 B1, US6910972 BB, US6910972 B1, US5979333 A, US4531459 A, US3408067 A, US2004266540 AA, US2002093165 AA, EP1201280 A2, EP0103795 A2,

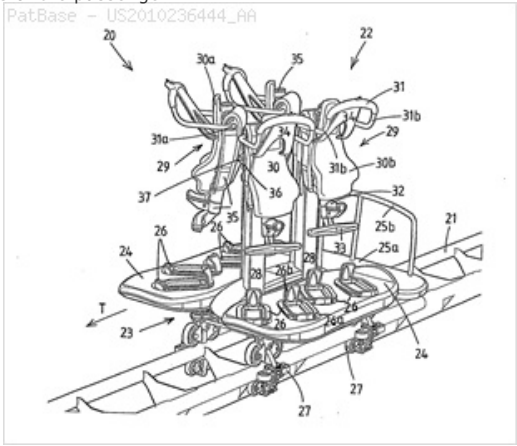
Forward Citations:

WO19229183, WO18093831, WO12039601, US9603450, US9084941, US8641542, US8117968, US2016278527, US2009114114, US10588256, US10357722, US10258893, IT201600112836, EP3628384, EP3626322, EP2618900, EP2298426, DE102018123640, CN106240594, CN106240594, CN104826340, CN104826340, CN103153412, CN103153412,

Abstract:

Amusement ride device, comprising a track and at least one carriage, which carriage is moveable along the track in a transport direction. The carriage comprises a transport part which engages on the track, at least one platform that allows to support the feet of at least one passenger, and at least one passenger torso restraint engaging on the torso of the passenger for safely

supporting the passenger. The transport part comprises one of the passenger torso restraint or the platform to support the passenger, while the other is connected by connecting means to the transport part. The connecting means are designed to allow the passenger to perform movements during the ride while being restrained by the torso restraint, wherein the torso restraint performs a movement with respect to the platform during said movements of the passenger.



26) Family number: 28207760 (DE20217754U1)

© PatBase

Title: FAIRGROUND MOTOR CYCLE ROLLER COASTER COMPRISES FORM OF A TANDEM-SEAT MOTOR CYCLE WITH A HORIZONTAL-LOCKED SURROUNDING SAFETY FRAME FOR TWO PERSONS

Priority: DE20022017754U 20021116

Family:

Publication number	Publication date	Application number	Application date
DE20217754 U1	20030320	DE20022017754U	20021116

Probable Assignee: SCHAEFER PETER

Assignee(s):(std): SCHAEFER PETER

International class (IPC 8-9): A63G21/12 A63G7/00 (Advanced/Invention); A63G21/00 A63G7/00 (Core/Invention)

International class (IPC 1-7): A63G21/04 A63G21/12

CPC: A63G7/00 A63G21/12

European class: A63G21/12 A63G7/00

[Classification Explorer](#)

Forward Citations: WO06053591, WO04073818, US8308232, US7762895, US7632191, US10357722, US10286329, US10258893, NL1022745,

Abstract: A roller coaster vehicle has the form of a tandem-seat motor cycle with a horizontal-locked surrounding safety frame for two persons. The safety frame adjusts automatically to individual body dimensions.



27) Family number: 32558795 (US2008051205A)

© PatBase

Title: AMUSEMENT RIDE INSTALLATION
Priority: WO2004NL00480 20040705
Family:

Publication number	Publication date	Application number	Application date
AT481145 E	20101015	AT20040748707T	20040705
AU2004321298 AA	20060112	AU20040321298	20040705
DE602004029203 D1	20101028	DE200460029203T	20040705
EP1789153 A1	20070530	EP20040748707	20040705
EP1789153 B1	20100915	EP20040748707	20040705
US2008051205 AA	20080228	US20040631488	20040705
WO06004392 A1	20060112	WO2004NL00480	20040705

Probable Assignee: VEKOMA RIDES ENGINEERING BV
Assignee(s):(std): DE VIN PETER ; ROODENBURG JOOP ; VEKOMA RIDES ENG BV ; VEKOMA RIDES ENGINEERING B V
Assignee(s): VEKOMA RIDES ENGINEERING BV
Inventor(s):(std): ROODENBURG JOOP ; DE VIN PETER ; VIN PETER DE
Inventor(s): JOOP ROODENBURG ; PETER DE VIN
Agent(s): WALLINGTON DUMMER; BROOKHUIS HENDRIK JAN ARNOLD; BIRCH STEWART KOLASCH AND BIRCH
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA 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 US UZ VC VN YU ZA ZM ZW
International class A63G1/00 A63G31/00 A63G7/00 (Advanced/Invention);
(IPC 8-9): A63G1/00 A63G31/00 A63G7/00 (Core/Invention)
International class A63G7/00
(IPC 1-7):
CPC: A63G7/00
European class: A63G7/00
US class: 104/53 472/131 472/43

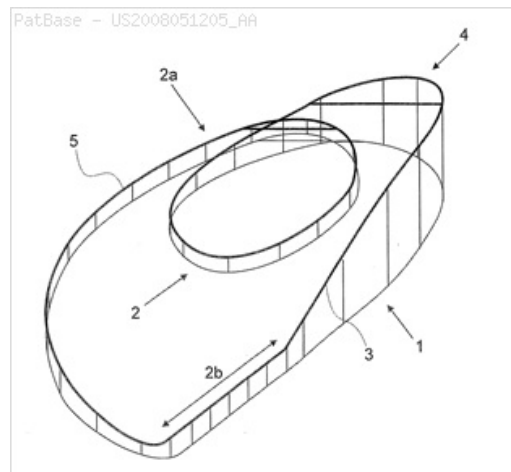
[Classification Explorer](#)

Cited documents: US7100053 BA, US6679182 BB, US6397755 BA, US6170402 BA, US5583844 A, US2003193522 AA, US2003019388 AA, EP1358919 A1, EP1138359 A2,

Forward Citations: WO17059967, US8375863, US8132513, US2010207083, US10357722, US10286329, US10258893, JP6661007, JP2018531085, EP3169417, CN108136265, CN108136265, AU2016336778,

Abstract:

An amusement ride installation has at least one passenger carrier adapted for supporting one or more passengers, and a launch system for launching the at least one passenger carrier. The launch system has a launch guide structure supporting and guiding the at least one passenger carrier to be launched along a launch path, a drive means providing a variable drive speed, and drive means-carrier connection means, including at least one mechanical connecting member, e.g. a cable, providing a temporary mechanical connection between the drive means and the at least one passenger carrier to be launched. The launch system is adapted to accelerate said at least one passenger carrier from a starting position along said launch path until at least a predetermined terminal launch speed has been reached by said at least one passenger carrier, where after said passenger carrier is disconnected from said connecting member and said at least one passenger carrier travels further along the amusement ride path.



28) Family number: 61645826 (US2016346704A)

© PatBase

Title: METHOD FOR OPERATING A DEVICE, IN PARTICULAR AN AMUSEMENT RIDE, TRANSPORT MEANS, A FITNESS APPARATUS OR THE LIKE

Priority: DE201410111386 20140811 DE201510100943 20150122 EP20150745513 20150806
EP20160192557 20150806 WO2015EP68205 20150806 WO2015EP68205 20150808
US20160116335 20160803 EP20160192557 20161006 US20170833061 20171206

Publication number	Publication date	Application number	Application date
AU2015303267 AA	20160707	AU20150303267	20150806
CA2932241 AA	20160531	CA20152932241	20150806
CN106029190 A	20161012	CN201580008737	20150806
CN106029190 B	20200310	CN201580008737	20150806
DE102014111386 A1	20160211	DE201410111386	20140811
DE102015100943 A1	20160728	DE201510100943	20150122
DE502015000290 D1	20161222	DE201550000290T	20150806

DE502015010955 D1	20191205	DE201550010955T	20150806
DK3041591 T3	20170123	DK20150745513T	20150806
EP3041591 A2	20160713	EP20150745513	20150806
EP3041591 B1	20161109	EP20150745513	20150806
EP3147006 A1	20170329	EP20160192557	20150806
EP3147006 B1	20191113	EP20160192557	20150806
EP3632520 A1	20200408	EP20190208245	20150806
ES2618333 T3	20170621	ES20150745513T	20150806
HK1226982 A1	20171013	HK20170100316	20170110
HU031114 T2	20170628	HU20150745513T	20150806
IN201617018889 A	20160831	IN201617018889	20160601
JP2017522911 T2	20170817	JP20160539280T	20150806
JP6463764 B2	20190206	JP20160539280T	20150806
PL3041591 T3	20170331	PL20150745513T	20150806
TR201700783 T4	20170221	TR20170000783T	20150806
TR202001831 T4	20200221	TR20200001831T	20150806
US2016346704 AA	20161201	US20150116335	20150806
US2016346704 AA	20161201	US20150116335	20150808
US2018104601 AA	20180419	US20170833061	20171206
US9839857 BB	20171212	US20150116335	20150806
US10576389 BB	20200303	US20170833061	20171206
WO16023817 A2	20160218	WO2015EP68205	20150806
WO16023817 A3	20160407	WO2015EP68205	20150806
ZA201701677 A	20180530	ZA20170001677	20170308

Probable Assignee: VR COASTER GMBH AND CO KG

Assignee(s):(std): MACK RIDES GMBH AND CO KG ; VR COASTER GMBH AND CO KG

Assignee(s): VR COASTER GMBH CO KG ; 67663 KAISERSLAUTERN ; MACK RIDES GMBH CO KG ; VR COASTER GMBH AND CO ; WAGNER THOMAS ; VR COASTER GMBY AND CO KG

Inventor(s):(std): WAGNER THOMAS

Inventor(s): THOMAS WAGNER

Agent(s): FRANKE HYLAND; FRANKE HYLAND PTY LTD; SHAPIRO COHEN LLP; AVENTUM IP LAW LLP; WESTPHAL MUSSGNUG AND PARTNER PATENTANWALTE MIT BESCHRAENKTER BERUFSHAFTUNG; WESTPHAL MUSSGNUG AND PARTNER PATENTANWALTE MBB; WESTPHAL MUSSGNUG AND PARTNER PATENTANWALTE MBB; TORNER ELISABET; EMILY YIP AND CO; ONDA MAKOTO; ONDA HIRONORI; MEHMET NAZIM AYDIN DERIS; UGUR GUERSAD YALCINER; JERALD L; STANLEY N; NATH GOLDBERG AND MEYER; MEYER JERALD L; PROTIGAL STANLEY N

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

International class (IPC 8-9): A63G A63G21/04 A63G31/16 A63G7/00 G06F3/01 G06T19/00 (Advanced/Invention); A63F13/00 (Advanced/Non-invention)

CPC: G02B27/017 G06F3/011 G02B2027/014 G02B2027/0187 A63G7/00 A63G31/16 G06F3/012 G06T19/006

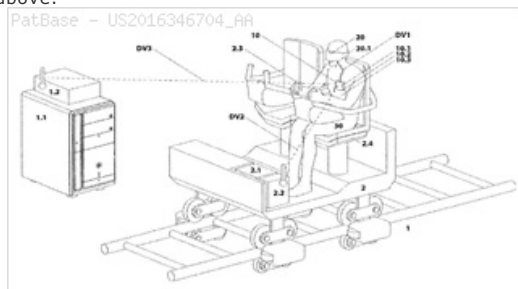
US class: 1/1 472/61

[Classification Explorer](#)

Cited documents: WO9831444 A1, WO983144 A1, WO9803144 A1, WO9527543 A1, WO14108693 A1, WO13188069 A1, WO13050473 A1, WO11084895 A1, WO08149339 A1, US8179337 BB, US6179619 BA, US6179619 BA, US6179619 B1, US6079982 A, US6079982 A, US5716281 A, US5662523 A, US5584697 A, US5003300 A, US2014015736 AA, US2014002496 AA, US2014002492 AA, US2013342570 AA, US2013307842 AA, US2013234914 AA, US2013178257 AA, US2013083062 AA, US2013083003 AA, US2013032053 AA, US2013032053 AA, US2012249416 AA, US2010240454 AA, US2010079356 AA, US2010079356 AA, US2010053029 AA, US2007196793 AA, US2005049022 AA, KR20110064586 A, JP2014120006 A2, JP2014120006, JP2001062154 A2, JP2001062154 A2, JP10309381 A2, JP10309381, EP2138213 B1, EP2138213 B1, EP2138213 A1, EP2138213 A1, CN200983877 Y, CN200983877 Y,

Forward Citations: WO20068977, WO19190598, WO19190597, WO19174770, WO19174769, WO19168937, WO19091620, WO19081183, WO19018163, WO18200405, WO18172775, WO18165170, WO18165165, WO18109502, WO18058361, WO18007003, WO17153532, US9966113, US9821920, US9669321, US2019026946, US2018101225, US2017050743, US10589625, US10585471, US10572000, US10528123, US10376605, US10289194, US10279925, US10258893, US10234937, US10112118, RU2719237, JP2020511218, JP2019517831, IT201800003194, GB2566428, EP3563915, EP3539628, EP3539627, EP3479884, EP3476448, EP3426366, EP3213800, DE102017218214, DE102016104337, CN110352087, CN108697936, CN107153460, CN106918914, AU2017229450,

Abstract:
A method for operating an amusement ride includes at least one vehicle which moves along a route and accommodates at least one passenger. By means of an amusement-ride-specific computer program, a virtual reality corresponding to a journey of the vehicle is generated and is represented on a head-mounted display associated with the passenger of a vehicle in accordance with the position of the vehicle on the route, and in accordance with the position and/or the orientation of the head-mounted display. The amusement-ride-specific computer program is executed on a mobile terminal of the passenger which comprises a communication interface. Alternatively, the amusement-ride-specific computer program is executed on an apparatus which is firmly connected to the vehicle and is designed to connect with the head-mounted display of the passenger. Further, an amusement ride, in particular to a roller coaster, carries out the method above.



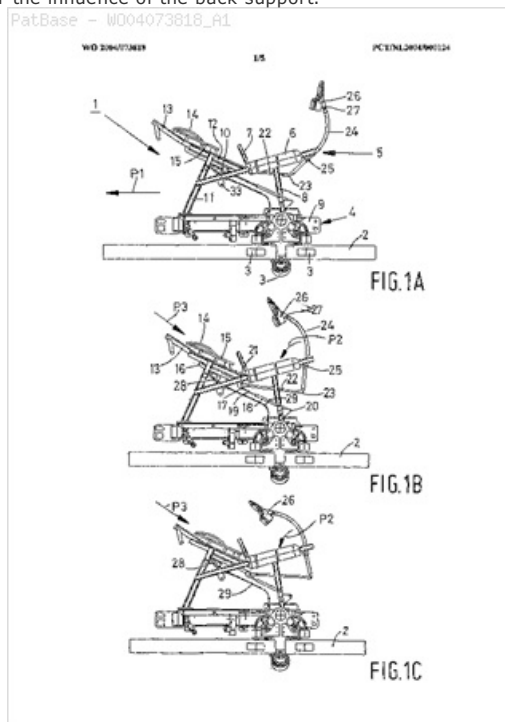
Title: AMUSEMENT DEVICE
Priority: NL20031022745 20030220
Family:

Publication number	Publication date	Application number	Application date
CN100441257 C	20081210	CN200480004880	20040218
CN1753710 A	20060329	CN200480004880	20040218
NL1022745 C2	20040823	NL20031022745	20030220
WO04073818 A1	20040902	WO2004NL00124	20040218

Probable Assignee: VEKOMA RIDES ENG BV
Assignee(s):(std): CLERX PETRUS JOSEPH HUBERTUS ; ROODENBURG JOOP ; VEKOMA RIDES ENG BV ; VEKOMA RIDES ENGINEERING B V ; VEKOMA RIDES ENGINEERING BV
Inventor(s):(std): JOOP CLERX PETRUS JOSEPH HUBER ; PETRUS JOSEPH HUBERTUS CLERX ; JOOP ROODENBURG ; HUBERTUS CLERX PETRUS JOSEPH ; CLERX PETRUS JOSEPH HUBERTUS ; ROODENBURG JOOP
Inventor(s): CLERX PETRUS JOSEPH HUBERTUS ROODENBURG JOOP
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA 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 US UZ VC VN YU ZA ZM ZW
International class (IPC 8-9): A63G21/04 A63G21/12 A63G7/00 (Advanced/Invention); A63G21/00 A63G7/00 (Core/Invention)
International class (IPC 1-7): A63G21/12 A63G7/00
CPC: A63G7/00 A63G21/04 A63G21/12
European class: A63G21/04 A63G21/12 A63G7/00
[Classification Explorer](#)
Cited documents: WO9622821 A1, US6405655 BA, US5979333 A, FR342301 A, FR2756248 A1, EP1027114 B1, EP1027114 A1, DE20217754 U1, DE2021775 A1,
Forward Citations: WO09022905, WO09022905, WO06053591, USD616055, USD583435, USD567893, USD552704, USD550802, USD537899, US8453576, US8308232, US7762895, US7632191, US7520634, US2011048274, US10357722, US10286329, US10258893, KR101386314, EP2572767, EP2572767, EP2298426, CN106457049, CN106457049, CN106110668, CN106110668, CN105413181, CN104712704,

Abstract:

The invention relates to an amusement device comprising a track-like guide construction (2), along which at least one vehicle (4) is movable in a direction of transport. The vehicle comprises a holder (5) for a person, which holder comprises at least a back support (26) and a seat (6). The back support can be positioned against a person's back, with the persons' back including an acute angle with the guide construction, seen in the direction of transport, under the influence of the back support.



Title: AMUSEMENT FACILITY FOR WATCHING FILMS
Priority: CN201010262125 20100819
Family:

Publication number	Publication date	Application number	Application date
CN101966394 A	20110209	CN201010262125	20100819
CN101966394 B	20121031	CN201010262125	20100819

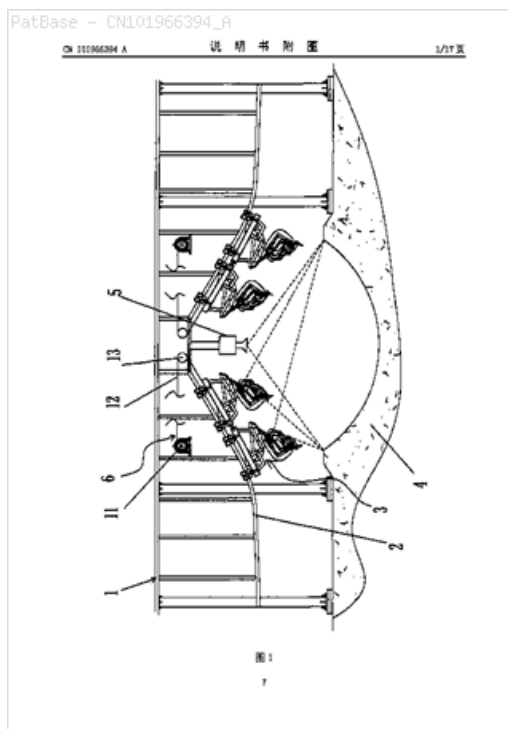
Probable Assignee: ZHONGSHAN GOLDEN HORSE S AND T AMUSEMENT EQUIPMENT CO LTD
Assignee(s):(std): ZHONGSHAN GOLDEN HORSE S AND T AMUSEMENT EQUIPMENT CO LTD
Assignee(s): ZHONGSHAN GOLDEN HORSE S and T AMUSEMENT EQUIPMENT CO
Inventor(s):(std): XIWANG LIU
Inventor(s): LIU XIWANG
International class (IPC 8-9): A63G21/08 A63G21/20 (Advanced/Invention)

[Classification Explorer](#)

Cited documents: WO09022905 A2, CN2615703 Y, CN2459051 Y,
Forward Citations: WO19092402, WO18200410, US10357722, CN103089036,

Abstract:

The invention discloses an amusement facility for watching films. The amusement facility comprises a supporting frame (1), a track (2) arranged on the supporting frame (1), a carrier (3) capable of sliding along the track (2) and a driving device (6) for driving the carrier (3) to slide along the track (2); a screen (4) capable of displaying film images is horizontally or obliquely arranged on the ground below the track (2); and the screen surface of the screen (4) is upward. The amusement facility can realize aerial look-down of films, can bring an air flying feeling to passengers, and enables the passengers to experience fresh and exciting of watching the films in the air.



31) Family number: 73774876 (CN109529363A)

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Title: MULTI-SCENE RAIL SYSTEM AND CONTROL METHOD THEREOF
Priority: CN201811313400 20181106

Family:	Publication number	Publication date	Application number	Application date
	CN109529363 A	20190329	CN201811313400	20181106

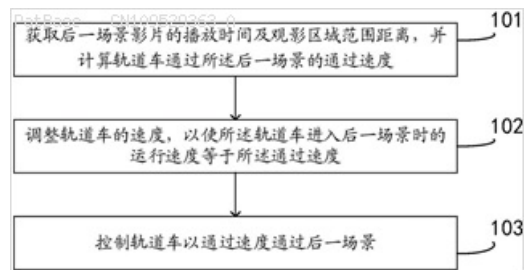
Probable Assignee: FANTAWILD SHENZHEN TECH CO LTD
Assignee(s):(std): FANTAWILD SHENZHEN TECH CO LTD
Assignee(s): FANTAWILD SHENZHEN TECHNOLOGY CO ; HUAQIANG FANTAWILD SHENZHEN CO LTD ; HUAQIANG FANTAWILD SHENZHEN TECHNOLOGY CO LTD
Inventor(s):(std): LIU HUI ; YUN AIHUA ; DING LIANG ; LIU DAOQIANG
International class (IPC 8-9): A63G21/06 (Advanced/Invention)
CPC: A63G21/06

[Classification Explorer](#)

Cited documents: WO18200410 A1, CN207870734 U, CN206773918 U, CN206342927 U, CN205584595 U, CN104282020 A,

Abstract:

The embodiment of the invention provides a multi-scene rail system and a control method thereof, and relates to the technical field of railway car viewing. According to the control method of the multi-scene track system, the speed of a railway car is adjusted by obtaining the playing time and the viewing distance of a next scene, so that the running time of the railway car in the scene is the same as the playing time, it is ensured that tourists watch a performance in the scene just in time, and the viewing quality is improved for the tourists. The invention further provides a multi-scene railsystem. Performance platforms are provided with electric curtain modules capable of being shielded, when a positioning device monitors that the railway car enters or leaves a viewing area, triggeringsignals are sent out, and start and shutdown of the electric curtain modules are controlled by curtain controllers so that performances of multiple performance platforms can be prevented from interfering with one another, the viewing experience of the tourists is improved, and the operation is convenient.



32) Family number: 12697931 (US5490784A)

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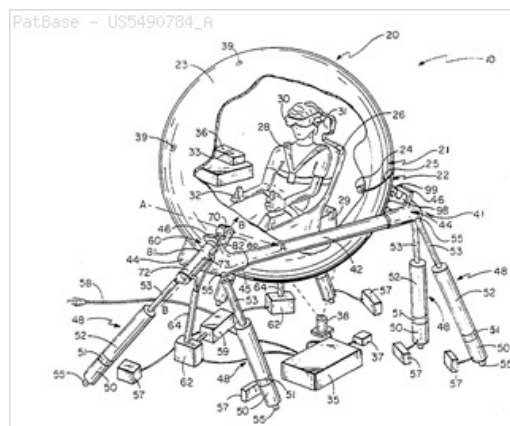
Title:	Virtual reality system with enhanced sensory apparatus																																																																											
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Probable Assignee:	CARMEIN DAVID E E																																																																											
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Inventor(s):(std):	CARMEIN DAVID E E																																																																											
Inventor(s):	CARMEIN DAVID E ; DAVID EE CARMEIN ; DAVID E E CARMEIN ; CARMEIN DAVID EE																																																																											
Agent(s):	PHILLIPS ORMONDE FITZPATRICK; SEABY AND ASSOCIATES																																																																											
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Abstract:

A motion simulating device which is capable of creating motion with up to six degrees of freedom; three rotational degrees of freedom and three linear-translational degrees of freedom. The motion simulating device includes a generally spherical capsule abutively supported on a plurality of rollers that are connected to a translatable frame. At least one of the rollers is a multi-directional active roller that frictionally engages the capsule to impart rotational motion to the capsule in any direction. The frame is optionally attached to a number of actuator legs which are capable of translating the frame along three orthogonal axes. Optimally, sights, sounds and physical sensations may be electronically coordinated and reproduced in the capsule so that a user may interactively control and respond to a variety of environments while simultaneously experiencing the corresponding motion and physical sensations associated with the interactive environment.



33) Family number: 34086934 (US2009031913A)

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Title: DRAG RACING ROLLER COASTER AMUSEMENT RIDE AND LAUNCH SYSTEM

Priority: NZ20050541121 20050706 WO2006NZ00174 20060706

Family:

Publication number	Publication date	Application number	Application date
AT494939 E	20110115	AT20060769481T	20060706
AU2006266570 AA	20070111	AU20060266570	20060706
AU2006266570 BB	20111201	AU20060266570	20060706
CA2611235 AA	20071206	CA20062611235	20060706
DE602006019604 D1	20110224	DE200660019604T	20060706
EP1912715 A1	20080423	EP20060769481	20060706

EP1912715 A4	20091118	EP20060769481	20060706
EP1912715 B1	20110112	EP20060769481	20060706
NZ541121 A	20071130	NZ20050541121	20050706
US2009031913 AA	20090205	US20060994906	20060706
US7980181 BB	20110719	US20060994906	20060706
WO07004904 A1	20070111	WO2006N200174	20060706

Probable Assignee: MANCHESTER SECURITIES LTD

Assignee(s):(std): CUMMINS ROBERT ; HEASLIP CHRISTOPHER JAMES ; MANCHESTER SECURITIES LTD

Assignee(s): MANCHESTER SECURITIES LIMITED

Inventor(s):(std): CUMMINS ROBERT ; HEASLIP CHRISTOPHER JAMES ; HEASLIP CHRISTOPHER ; ROBERT CUMMINS ; JAMES HEASLIP CHRISTOPHER

Inventor(s): CHRISTOPHER JAMES HEASLIP

Agent(s): A J PARK; AJ PARK; OYEN WIGGS GREEN AND MUTALA LLP; ABNETT RICHARD CHARLES; DANN DORFMAN HERRELL AND SKILLMAN; DANN DORFMAN HERRELL AND SKILLMAN PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW 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 MG MK ML MN MR MW MX 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 SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): A63G1/00 A63G21/00 A63G25/00 A63G33/00 A63G7/00 (Advanced/Invention); A63G21/00 A63G25/00 A63G33/00 A63G7/00 (Core/Invention)

International class (IPC 1-7): A63G25/00 A63G31/08 A63G33/00

CPC: A63G7/00 A63G21/20 A63G25/00 A63G33/00

European class: A63G21/20 A63G25/00 A63G33/00 A63G7/00

US class: 104/53 104/60 104/63 104/63P

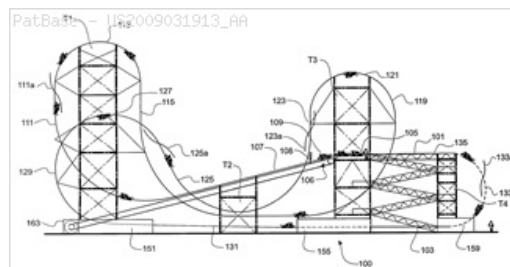
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Cited documents: WO9622821 A1, WO05099847 A1, WO04035164 A1, WO02085478 A1, WO0062882 A1, US7640862 BB, US7192010 BB, US6910972 BB, US6837166 BA, US6746335 BB, US6679182 BB, US6606953 BB, US6592462 BB, US6523479 BA, US6513441 BA, US6439129 BB, US6405655 BA, US6402624 BA, US6269750 BA, US6176788 BA, US6176788 B1, US6155176 A, US6047645 A, US5979333 A, US5967051 A, US5595121 A, US5522321 A, US5272984 A, US4991514 A, US4165695 A, US2009031913 AA, US2008143158 AA, US2007199474 AA, US2006178221 AA, US2005274275 AA, US2003140815 AA, US2001023649 AA, NZ532277 A, JP9117570 A2,

Forward Citations: WO19229183, WO19153475, WO19134034, WO19081055, WO18200410, WO17135830, WO15073998, WO10043508, WO09022905, US9944463, US9896268, US9855844, US9718358, US9540007, US9440156, US8943976, US8485104, US8453578, US8453576, US8371227, US8132513, US8015727, US7980181, US2018304163, US2018304160, US2015114249, US2014165868, US2011017092, US2005102854, US10525361, US10391410, US10357722, US10286329, US10099555, JP2016537074, FR2964572, FR2964572, EP3452193, EP3068507, CN108176055, CN105169705, AU2016203624,

Abstract:

A drag racing roller coaster amusement ride has at least two sets running rails, each set having at least one running rail and an embark point. At least two carriers (109) are arranged to carry at least one rider on a respective set of running rails with the rider(s) in a substantially prone position. Each carrier is arranged to slidably engage with the respective set of running rails to enable the carriers to traverse the ride. The ride has an indicator (109) to provide a ride commencement indication. A launch system is configured to provide a powered initial motion to each carrier. Each carrier has a ride activator controllable by a rider of the carrier to trigger the launch system to commence the ride for the carrier following the ride commencement indication. Launch systems are also disclosed.



34) Family number: 30225943 (US2004017608A)

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Title: FOVEATED DISPLAY SYSTEM

Priority: US20020398007P 20020722 US20030622968 20030718 WO2003US22406 20030718

Family:

Publication number	Publication date	Application number	Application date
AU2003253980 AA	20040209	AU20030253980	20030718
AU2003253980 AH	20040209	AU20030253980	20030718
US2004017608 AA	20040129	US20030622968	20030718
US6909543 BB	20050621	US20030622968	20030718
WO04010681 A2	20040129	WO2003US22406	20030718
WO04010681 A3	20050506	WO2003US22406	20030718

Probable Assignee: SPITZ INC

Assignee(s):(std): SPITZ INC

Assignee(s): LANTZ EDWARD J

Inventor(s):(std): LANTZ EDWARD J

Inventor(s): EDWARD J LANTZ

Agent(s): COHEN GARY M; GARY M

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
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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

International class
(IPC 8-9):

G03B21/00 G03B21/14 G03B21/56 H04N7/00 (Advanced/Invention)

International class
(IPC 1-7):

G03B21/00 G03B21/14 G03B21/56 H04N H04N7/00

CPC:

G03B21/00 G03B21/56

European class:

G03B21/00 G03B21/56

US class:

348/36 348/39 353/11 353/70 359/443 359/451 359/451P

[Classification Explorer](#)

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US2004130501, US10440455, US10398990, US10286329, US10110876, US10096160, US10063820,
ITFI20090025, EP2270591, DE212014000140, DE102017000032, CN106460399,

Abstract:

An improved theater geometry which is capable of providing improved image resolution and improved image contrast over prior systems is achieved with a unique projection geometry and image re-mapping technique. The projected image is provided with a continuously variable image resolution and brightness over the surface of a preferably dome-shaped screen which is to receive the image, concentrating the resolution and the brightness of the image within the central field-of-view of viewers that are unidirectionally seated in the theater, and sacrificing resolution and brightness toward the outside edges of the viewers' field-of-view. The result is a more efficient use of available projector resolution and brightness, an increase in the number of quality seats available in the theater, and an enhanced image contrast due to reductions in the light which is scattering from image elements to the rear of the screen.

