

Search history

Search PN=(WO2016193522) (Results 1)

1:

Search fn=(11347742 or 30777019 or 53182053 or 41121292) (Results 4)

2:

Search fn=(42004172 or 42050578 or 42998954 or 64272558 or 30738286 or 30777019 or 33060855 or 41121292 or 33060855 or 33060855 or 33060855 or 42998954 or 42998954 or 30738286 or 30738286 or 34032918 or 41121292 or 41121292 or 42998954 or 64272558 or 22845478 or 3459184 or 2380076 or 2103035 or 12869005 or 24753857 or 2323836) (Results 16)

1) Family number: 24753857 (US1199751A)

© PatBase

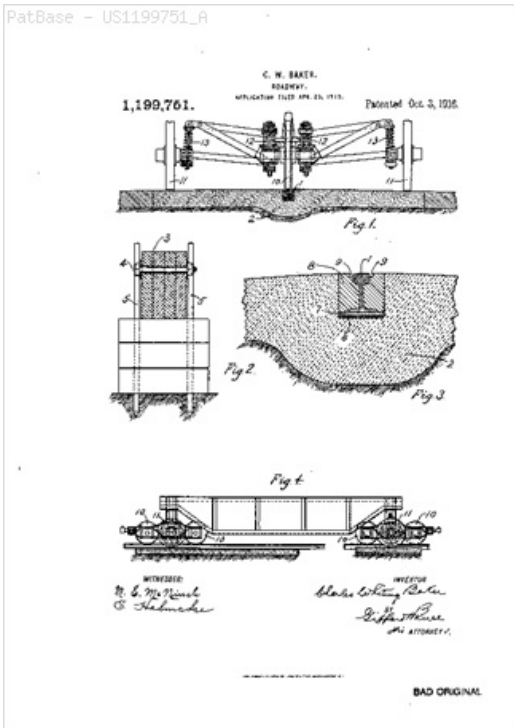
Title: ROADWAY.

Classifications:

International (IPC 1-7): B61B13/04

CPC: E01B25/28

US: 238/4



Family:

Publication number	Publication date	Application number	Application date
US1199751 A	19161003	US19150023344	19150423

Priority:

US19150023344 19150423

Probable Assignee: BAKER CHARLES WHITING

Assignee(s): (std): BAKER CHARLES WHITING

Assignee(s): CHARLES WHITING BAKER

Inventor(s): (std): BAKER CHARLES WHITING

Inventor(s): CHARLES WHITING BAKER

2) Family number: 2323836 (US4251042A)

© PatBase

Title: Railway double tongue switch

Abstract: A double tongue switch comprises a pair of identical and interchangeable switch assemblies, each of which has a rectangular body with vertical outer walls. Each switch tongue includes a pair of full-width railheads of increased thickness. Each body includes a continuous central support wall beneath the traffic-carrying tongue railhead. The inner end and side walls are ramped to facilitate removal of debris. The tongues are positively locked in extreme positions and are mounted on the bodies by an improved attachment device.

Classifications:

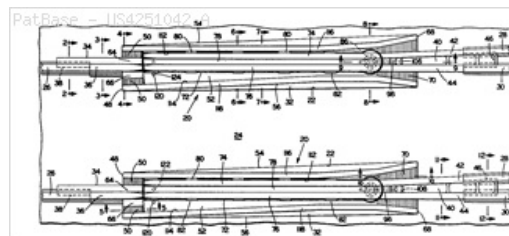
International (IPC 8-9): E01B7/04 (Advanced/Invention);
E01B7/00 (Core/Invention)

International (IPC 1-7): E01B7/04

CPC: E01B7/04

European: E01B7/04

US: 246/442 246/443 246/444



Family:

Publication number	Publication date	Application number	Application date
CA1150210 A1	19830719	CA19790341127	19791204
US4251042 A	19810217	US19790019012	19790305

Priority:

US19790019012 19790305 CA19790341127 19791204

Probable Assignee: ABC NACO INC

Assignee(s): (std): ABEX CORP

Assignee(s): AMERICAN NATIONAL BANK AND TRUST CO ; FIRST NATIONAL BANK OF CHICAGO ; SANWA BUSINESS CREDIT CORP ; BANQUE INDOSUEZ NEW YORK BRANCH ; BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIA ; FRANK EARL E ; ABC NACO INC ; ABC RAIL CORP ; ABC RAIL PRODUCTS CORP

Inventor(s): (std): FRANK EARL E

Agent(s): MACRAE AND CO

3) Family number: 22845478 (DE3011348A1)

© PatBase

Title: PNEUMATIC TYRED VEHICLE GROOVED TRACK JUNCTION POINTS - HAVE SEPARATE FROG FOR CROSSOVER TO RIGID TONGUE SWIVELLING ON SLIDING HINGE

Abstract: Grooves sited below roadway level converge at an acute angle and are moved, to form a track running one way or the other, by a swivelling point tongue, in a junction for tyred vehicles travelling in grooved tracks. Between adjacent groove profiles (2,3), on the one hand, and the points area adjoining in the track direction, on the other, there is a separate points frog (8) affording transition to the tongue (10). The inherently rigid tongue is mounted so as to swivel on the end of the frog with the aid of a sliding hinge joint (11). This can comprise a vertical hinge roller, and a bearing hole in the frog, with a slot for the stem piece.

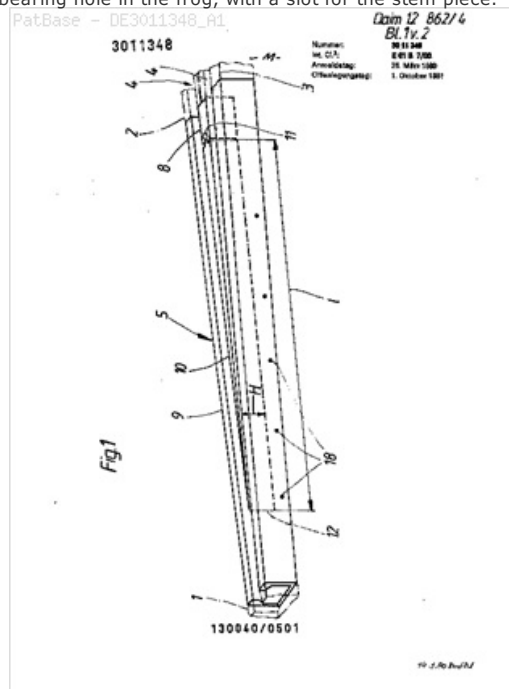
Classifications:

International (IPC 8-9): E01B25/28 E01B7/04 (Advanced/Invention);
E01B25/00 E01B7/00 (Core/Invention)

International (IPC 1-7): B62B1/26 E01B25/28 E01B7/00 E01C9/02

CPC: E01B7/04 E01B25/28

European: E01B25/28 E01B7/04



Family:

Publication number	Publication date	Application number	Application date
DE3011348 A1	19811001	DE19803011348	19800325
DE3011348 C2	19880526	DE19803011348	19800325

Priority:

DE19803011348 19800325

Probable Assignee: DAIMLER AG
Assignee(s): (std): DAIMLER AG ; DAIMLER BENZ AG
Assignee(s): DAIMLER BENZ AG 7000 STUTTGART DE
Inventor(s): (std): BINDER HELLMUTH DIPL ING
Inventor(s): BINDER HELLMUTH DIPL ING 7000 STUTTGART DE

4) Family number: 2380076 (US4454819A)

© PatBase

Title: System for automatically guiding a vehicle provided with tired wheels

Abstract: A system for automatically guiding a vehicle provided with pneumatically tired wheels comprises first and second rollers 7, 7' which follow a rail 8 extending in the path of movement of the vehicle. The first roller is supported by a fork-shaft 9, 10 extending in the direction of movement of the vehicle and capable of oscillating vertically about a horizontal axis 11. It is fastened to a turret 12 connected to at least one coupling bar 17 hinged to a steering lever 6. The second roller is supported by a second support arm extending in the opposite direction, which may also oscillate vertically about a horizontal axis and pivot horizontally independently of the turret, to a limited extent. The vehicle can be guided alternately either by a mechanical type of automatic system, used when the vehicle moves on an appropriate infrastructure, or manually by the driver, when the vehicle moves autonomously.

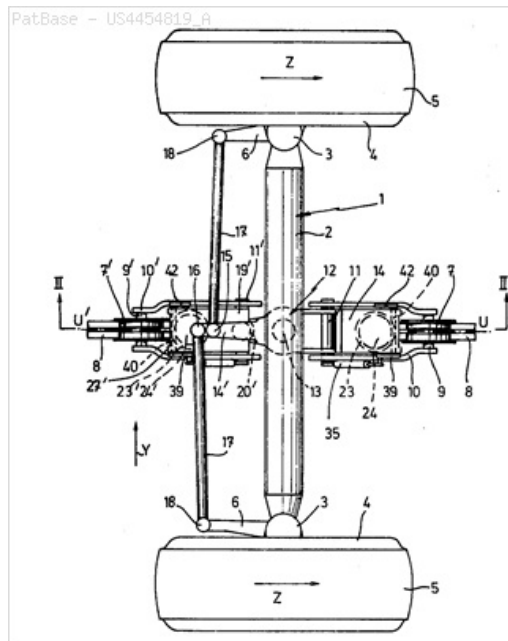
Classifications:

International (IPC 8-9): B62D1/26 B65G35/00 (Advanced/Invention); B62D1/00 (Core/Invention)

International (IPC 1-7): B61F9/00 B62D1/26 B65G35/00
CPC: B62D1/265

European: B62D1/26B

US: 104/242 104/245 105/215.2 105/215C



Family:

Publication number	Publication date	Application number	Application date
AT13503 E	19850615	AT19820200356T	19820324
CA1177695 A1	19841113	CA19820399838	19820330
DE3263858 D1	19850704	DE19823263858	19820324
EP0062370 A1	19821013	EP19820200356	19820324
EP0062370 B1	19850529	EP19820200356	19820324
LU83276 A	19830324	LU19810083276	19810402
US4454819 A	19840619	US19820363735	19820330

Priority:

LU19810083276 19810402 EP19820200356 19820324 CA19820399838 19820330

Probable Assignee: FERROVIAIRES AND METALL CONSTR

Assignee(s): (std): CONST FERROVIAIRES ET METALLIQ ; CONSTR FERROVIAIRES AND METALLIQ ; FERROVIAIRES AND METALL CONSTR

Assignee(s): SA CONSTRUCTIONS FERROVIAIRES ET METALLIQUES RUE R ; S A CONSTRUCTIONS FERROVIAIRES ET METALLIQUES ; SA CONSTRUCTIONS FERROVIAIRES ET ; CONSTRUCTIONS FERROVIAIRES ET METALLIQUES SA ; CUYLITS JACQUES ; LENSSEN PAUL ; CONSTR FERROVIAIRES AND METALLIQUES SA ; CONSTRUCTIONS FERROVIAIRES ET METALLIQUES RUE ROYA ; CHATELLE PHILIPPE

Inventor(s): (std): CHATELLE PHILIPPE ; CHATELLE PHILIPPE P ; CUYLITS JACQUES ; LENSSEN PAUL

Agent(s): ROBIC ROBIC AND ASSOCIES ASSOCIATES

Designated states: AT BE CH DE FR GB IT LI NL SE

5) Family number: 3459184 (DE3303062A1)

© PatBase

Title: Crossing for points for a trough-shaped travel way

Abstract: The crossing according to the invention for points for a trough-shaped travel way for wheeled vehicles with flangeless

lateral guidance allows a very simple and economical points construction, in which structures under the travel surface are not necessary, as a result of which the construction is particularly suitable for so-called mixed travel ways, in other words travel ways, on which wheeled vehicles with flangeless lateral guidance and normal rail vehicles use the same line.

Classifications:

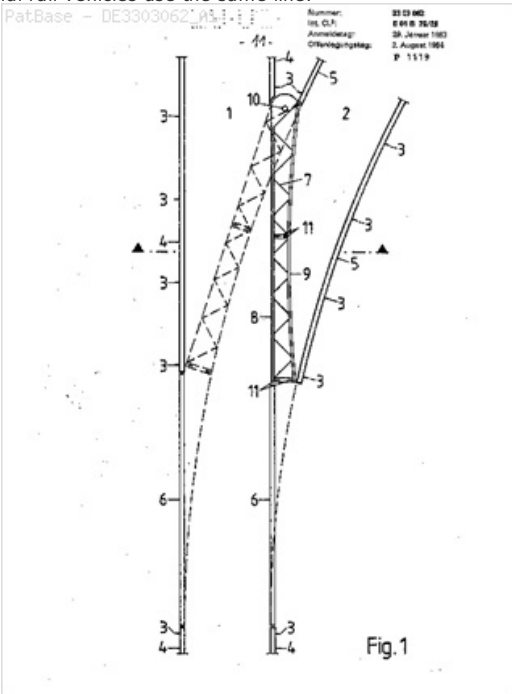
International (IPC 8-9): E01B25/28 (Advanced/Invention);

E01B25/00 (Core/Invention)

International (IPC 1-7): E01B25/28 E01B7/00 E01B7/04 E01B7/12

CPC: E01B25/28

European: E01B25/28



Family:

Publication number	Publication date	Application number	Application date
AU198539231 A1	19860904	AU19850039231	19850227
AU566040 B2	19871008	AU19850039231	19850227
DE3303062 A1	19840802	DE19833303062	19830129
DE3303062 C2	19880107	DE19833303062	19830129

Priority:

DE19833303062 19830129 AU19850039231 19850227

Probable Assignee: ZUEBLIN AG

Assignee(s): (std): ZUEBLIN AG

Assignee(s): ED ZUBLIN AG ; ED ZUEBLIN AG ; ED ZUEBLIN AG 7000 STUTTGART DE

Inventor(s): (std): FASTENAU WERNER ; WIDMANN HORST

Inventor(s): HORST WIDMANN ; VERZICHT DES ERFINDERS AUF NENNUNG ; WERNER FASTENAU

Agent(s): MADDERNS; MADDERNS PATENT AND TRADE MARK ATTORNEYS

6) Family number: 2103035 (EP0130783A2)

© PatBase

Title: A switch for a railway turnout or crossing.

Abstract: The present invention relates to a rail switch for a rail turnout or crossing interposed at a junction between a set of rails said switch comprising a stock rail pivotally mounted such that one free end at least is moveable between at least two end positions wherein, at each end position, the stock rail is in line with a pair of opposed rails of said set of rails.

Classifications:

International (IPC 8-9): E01B7/04 E01B7/14

E01B7/28 (Advanced/Invention);

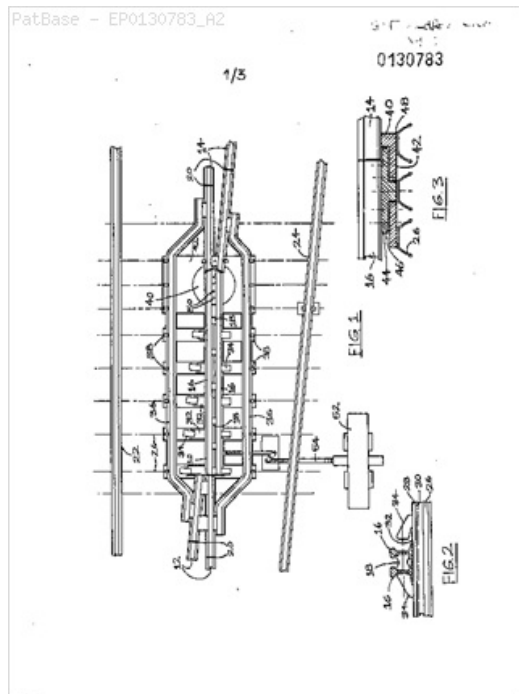
E01B7/00 (Core/Invention)

International (IPC 1-7): B61L5/00 E01B23/06 E01B25/06 E01B7/00

E01B7/04 E01B7/14 E01B7/28

CPC: E01B7/04 E01B7/14 E01B7/28

European: E01B7/04 E01B7/14 E01B7/28



Family:

Publication number	Publication date	Application number	Application date
AU198429824 A1	19850103	AU19840029824	19840622
AU566594 B2	19871022	AU19840029824	19840622
BRPI8403199 A	19850611	BR1984PI03199	19840628
CA1227863 A1	19871006	CA19840457501	19840626
EP0130783 A2	19850109	EP19840304341	19840627
EP0130783 A3	19860528	EP19840304341	19840627
IN161194 A	19871017	IN1984MA00468	19840628
JP60070201 A2	19850422	JP19840135018	19840629
ZA8404894 A	19860326	ZA19840004894	19840627

Priority:

AU1983PG00038 19830629 CA19840457501 19840626

Probable Assignee: OSREDECKI V

Assignee(s): (std): BURADEIMAA OSUREDTSUKI ; OSREDECKI V ; OSREDECKI VLADIMIR ; VLADIMIR OSREDECKI ; VLADIMIR OSREDECKI AUSTRALIA

Inventor(s): (std): BURADEIMAA OSUREDTSUKI ; OSREDECKI VLADIMIR ; VLADIMIR OSREDECKI AUSTRALIA

Inventor(s): VLADIMIR OSREDECKI

Agent(s): LORD AND CO; FETHERSTONHAUGH AND CO

Designated states: AT BE CH DE FR GB IT LI LU NL SE

7) Family number: 12869005 (FR2720083A)

© PatBase

Title: Guide rail for coaches or buses mounted in U-shaped metal section at same level as road surface

Abstract: The guide rail has a rust proof, shaped metal section (12) mounted above a longitudinal sleeper (13) or a road (14). It is supported by anchor rods, tie rods or connectors (16, 17, 26) which ensure the sole of the rail (1) is attached to the bottom of the shaped section (12), passing through an insulating mat (15) so that the upper edge of the rail (1) is at the same level as the top of the road surface (37) as is the upper edge of the shaped section (12) from which it is electrically insulated. The rail is held in position by sleeper clips (18, 19) which are made of insulating material and which are held tight against the sloping sides of the rail sleeper by washers (21) and nuts (22) which ensure that elastic pressure is constantly exerted on the rail to ensure it is held tightly onto the sleeper which has grooves to provide insulation from vibrations. The nuts, washers and sleeper clips are buried in an insulating filler (33) within the shaped section (12). The U shaped section (12) is supported by a sleeper (13) made of poured concrete in an insulating mat (14)

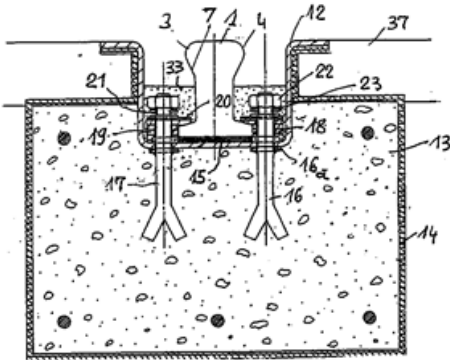
Classifications:

International (IPC 8-9): E01B25/28 (Advanced/Invention); E01B25/00 (Core/Invention)

International (IPC 1-7): B62D1/26 E01B25/28

CPC: E01B25/28

European: E01B25/28



Family:

Publication number	Publication date	Application number	Application date
FR2720083 A1	19951124	FR19940006184	19940520
FR2720083 B1	19960809	FR19940006184	19940520

Priority:

FR19940006184 19940520

Probable Assignee: MONTCOCOL TP
Assignee(s): (std): MONTCOCOL TP
Inventor(s): (std): LEPARQ FRANCK ; MALOD PANISSET JACQUES
Inventor(s): FRANCK LEPARQ ; JACQUES MALOD PANISSET
Agent(s): CABINET MADEUF

8) Family number: 30738286 (WO04071838A2)

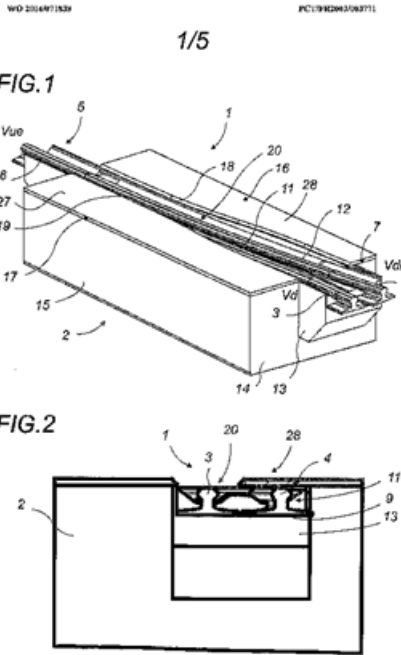
© PatBase

Title: DEVICE FOR THE AUTOMATIC LOWERING OF THE MOBILE ORIENTATION ELEMENT OF A SPRING SWITCH FOR A MONORAIL GUIDE CIRCUIT

Abstract: The invention relates to a device for the automatic lowering of the mobile orientation element (9) of a spring switch for a monorail guide circuit. The inventive device is characterised in that it combines two means, namely: (i) a road vehicle guide assembly (21) comprising two inclined rollers (22 and 23), and (ii) one or two guiding edges (27 or 28) bordering a central circulation space (20) along a curvilinear path which converges towards the point of the switch. According to the invention, the inclined outer wall of one of the guide rollers (22 or 23) co-operates with the aforementioned guiding edge (27 or 28) and with the catch against the rail in order to produce the automatic movement of the mobile orientation element (9), by means of an end support which slides on the rail, into the position necessary for the road vehicle guide assembly (20) to clear the switch. The invention is particularly suitable for use by monorail circuit switch producers.

Classifications:

International (IPC 8-9): B62D1/26 E01B25/12
E01B25/28 (Advanced/Invention);
B62D1/00 E01B25/00 (Core/Invention)
International (IPC 1-7): B61F E01B25/12 E01B25/28
CPC: B62D1/265 E01B25/28
European: B62D1/26B E01B25/28



Family:

Publication number	Publication date	Application number	Application date
--------------------	------------------	--------------------	------------------

AT470013 E	20100615	AT20030799613T	20031217
AU2003299332 AA	20040906	AU20030299332	20031217
AU2003299332 AH	20040906	AU20030299332	20031217
CN100485127 C	20090506	CN200380108826	20031217
CN1742138 A	20060301	CN200380108826	20031217
DE60332872 D1	20100715	DE20036032872	20031217
EP1583872 A2	20051012	EP20030799613	20031217
EP1583872 B1	20100602	EP20030799613	20031217
ES2346206 T3	20101013	ES20030799613T	20031217
FR2849872 A1	20040716	FR20030000405	20030115
FR2849872 B1	20050211	FR20030000405	20030115
RU2005125618 A	20060127	RU20050125618	20031217
RU2328570 C2	20080710	RU20050125618	20031217
WO04071838 A2	20040826	WO2003FR03771	20031217
WO04071838 A3	20041229	WO2003FR03771	20031217

Priority:

FR20030000405 20030115 WO2003FR03771 20031217

Probable Assignee: LOHR IND

Assignee(s): (std): ANDRE JEAN LUC ; LOHR IND ; LOR IND

Assignee(s): LOHR INDUSTRIE ; LOHR INDUSTRIE S A ; LOHR INDUSTRIE SA ; LOHR INDUSTRIES S A ; LOR INDUSTRI

Inventor(s): (std): ANDRE JEAN LUC ; ANDRE ZHAN LJUK ; JEAN LUC ANDRE

Inventor(s): ANDRE ZHAN-LJUK

Agent(s): METZ PAUL; CABINET METZ PATNI

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 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

9) Family number: 30777019 (FR2850983B)

© PatBase

Title: APPAREIL DE VOIE A TIROIR POUR VEHICULES GUIDES PAR UN DISPOSITIF RAIL/GALET

Abstract: The crossing has a support piece (33) selectively displaced by a motor unit between a position in which one linking rail (31) links an entering rail (11) to a sorting rail and another position in which another linking rail (32) links the entering rail to another sorting rail. The linking rails extend in the same plane, and the piece passing from the former to the latter position by translation parallelly to the plane.

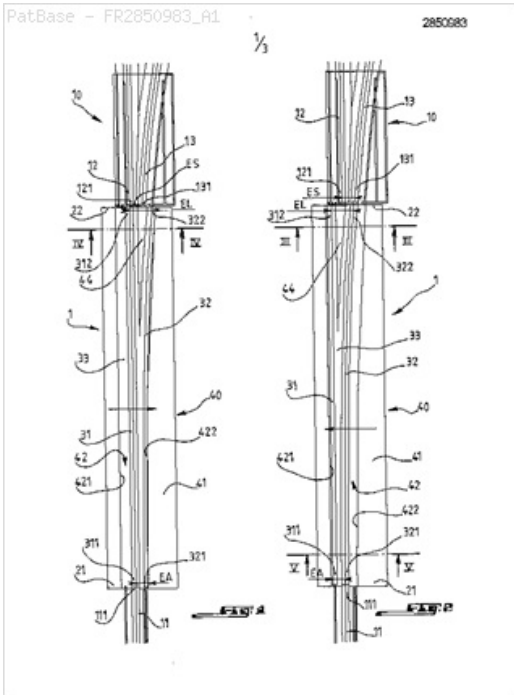
Classifications:

International (IPC 8-9): E01B25/28 E01B7/08 (Advanced/Invention); E01B25/00 E01B7/00 (Core/Invention)

International (IPC 1-7): E01B25/28 E01B7/08

CPC: E01B7/08 E01B25/28 E01B2202/025 E01B2202/08

European: E01B25/28 E01B7/08 P01B202/02B P01B202/08



Family:

Publication number	Publication date	Application number	Application date
FR2850983 A1	20040813	FR20030001398	20030206
FR2850983 B1	20060825	FR20030001398	20030206

Priority:

FR20030001398 20030206

Probable Assignee: COGIFER TF

Assignee(s): (std): COGIFER TF

10) Family number: 33060855 (FR2878488B)

© PatBase

Title: DISPOSITIF DE CHANGEMENT DE TRAJECTOIRE POUR VEHICULES SUR ROUES A PNEUMATIQUES

Abstract: The device has a locking unit (7) with a locking control unit and a position control and safety unit (17), where all the three units are housed in a casing (3). Rails (5) are provided with anti-tracking unit (21) extending transversally to the rail, where the unit (21) absorbs and blocks residual movement of welded long rails. A central slide has two trunnions to hold a stop on an inner side of a plate with running clearance.

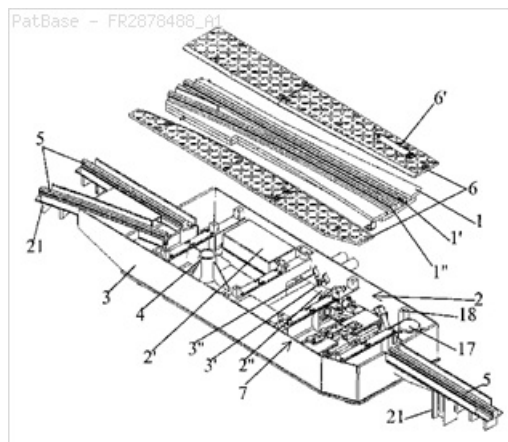
Classifications:**International (IPC 8-9):** B61B13/00 B61L5/08 B61L5/10 E01B E01B25/12

E01B25/28 E01B7/00 E01B7/08 (Advanced/Invention);

E01B25/28 E01B7/00 E01B7/04 (Advanced/Non-invention);

B61B13/00 B61L5/00 E01B25/00 E01B7/00 (Core/Invention);

B61L5/00 E01B25/00 E01B7/00 (Core/Non-invention)

International (IPC 1-7): E01B25/28**CPC:** B61L5/10 B61L5/08 E01B7/08**European:** B61L5/08 B61L5/10 E01B7/08**Family:**

Publication number	Publication date	Application number	Application date
■ CN1782233 A	20060607	CN200510072849	20050524
■ FR2878488 A1	20060602	FR20040012758	20041201
■ FR2878488 B1	20070302	FR20040012758	20041201
■ HK1087744 A1	20061020	HK20060107924	20060714
■ HK1087744 A3	20061020	HK20060107924	20060714
■ ITGE20050027 A1	20060602	IT2005GE00027	20050413
■ JP2006151351 A2	20060615	JP20050057323	20050302
■ JP4917266 B2	20120418	JP20050057323	20050302
■ KR101230703 B1	20130207	KR20050047777	20050603
■ KR20060061208 A	20060607	KR20050047777	20050603
■ SG122861 A1	20060629	SG20050001780	20050316
■ TW200619467 A	20060616	TW20050109193	20050324
■ TWI358485 B	20120221	TW20050109193	20050324

Priority:

FR20040012758 20041201

Probable Assignee: VOSSLOH COGIFER SA**Assignee(s):** (std): VOSSLOH COGIFER ; VOSSLOH COGIFER SA**Assignee(s):** VOSSLOH COGIFER SOC ANONYME ; VOSSLOH COGIFER SOCIETE ANONYME**Inventor(s):** (std): PHILIPPE MUGG ; MUGG PHILIPPE**Agent(s):** NTD PATENT AND TRADE MARK AGENCY LTD; TSUBOKURA MICHIAKI; ONO MAKOTO; OSAKI KATSUMASA; KAWAGUCHI YOSHIO**11) Family number: 34032918** (WO06136190A1)

© PatBase

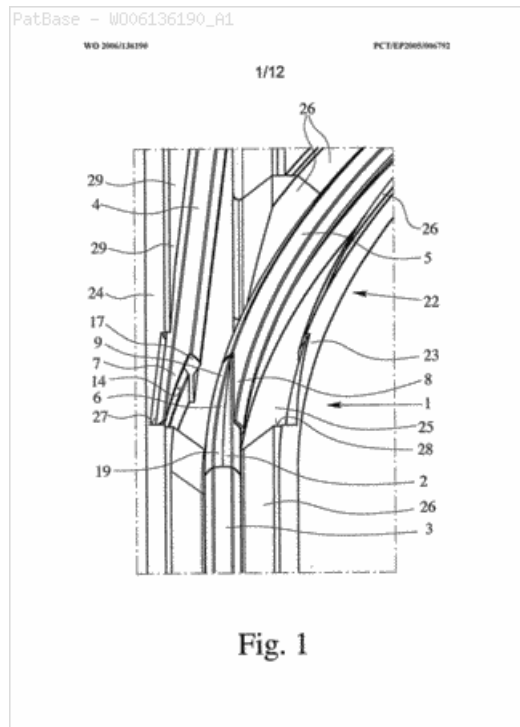
Title: TONGUE MECHANISM FOR A SWITCH OF A SINGLE-TRACK GUIDE RAIL SYSTEM

Abstract: The invention relates to a tongue mechanism (1) for a switch of a single-track guiding system. Said tongue mechanism (1) comprises a connecting piece (2) to be joined to an incoming guide rail (3), a first movable tongue blade (4) to be joined to an outgoing first guide rail, and a second movable tongue blade (5) to be joined to a branching second guide rail. The end of the connecting piece (2) is provided with a tapered connecting tip (6) while the free movable ends of the tongue blades (4, 5) are also embodied in a tapered manner as tongue tips (7, 8). The connecting tip (6) at least partly protrudes into the area located between the tongue tips (7, 8) of the tongue blades (4, 5). The tongue tip (7) of the first tongue blade (4) can rest against the first flank (9) of the connecting tip (6) while the tongue tip (8) of the second tongue blade (5) can lean on the second flank (10) of the connecting tip (6).

Classifications:**International (IPC 8-9):** B62D1/26 E01B25/28 (Advanced/Invention);

B62D1/00 E01B25/00 (Core/Invention)

CPC: B62D1/265 E01B25/28**European:** B62D1/16B B62D1/26B E01B25/28



Family:

Publication number	Publication date	Application number	Application date
WO06136190 A1	20061228	WO2005EP06792	20050623

Priority:

WO2005EP06792 20050623

Probable Assignee: SCHRECK MIEVES GMBH

Assignee(s): (std): BRACKMANN HEINRICH ; SCHRECK MIEVES GMBH

Inventor(s): (std): BRACKMANN HEINRICH

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 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

12) Family number: 41121292 (WO08009829A2)

© PatBase

Title: MANUALLY OPERATED POINTS FOR A SYSTEM OF GUIDANCE ALONG A RAIL ON THE GROUND

Abstract: The points operated manually by a pivoting lever (4) comprise a movable point element (6),

Classifications:

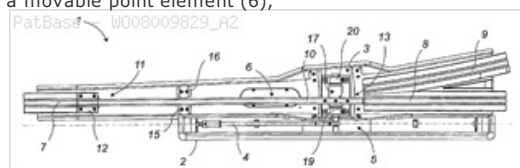
International (IPC 8-9): B61L5/02 B61L5/08 E01B25/12

E01B25/28 (Advanced/Invention);

B61L5/00 E01B25/00 (Core/Invention)

CPC: E01B25/28

European: E01B25/28



Family:

Publication number	Publication date	Application number	Application date
AT510068 E	20110615	AT20070823314T	20070720
CN101490340 A	20090722	CN200780027604	20070720
CN101490340 B	20121024	CN200780027604	20070720
DE602007014687 D1	20110630	DE200760014687T	20070720
EP2044266 A2	20090408	EP20070823314	20070720
EP2044266 B1	20110518	EP20070823314	20070720
FR2904013 A1	20080125	FR20060006683	20060721
FR2904013 B1	20080919	FR20060006683	20060721
WO08009829 A2	20080124	WO2007FR01253	20070720
WO08009829 A3	20080320	WO2007FR01253	20070720

Priority:

FR20060006683 20060721

EP20070823314 20070720

WO2007FR01253 20070720

Probable Assignee: LOHR IND

Assignee(s): (std): ANDRE JEAN LUC ; KLOTZ MARTIN ; LOHR IND

Assignee(s): LOHR INDUSTRIE ; LOHR INDUSTRIE SOCIETE ANONYME
Inventor(s): (std): ANDRE JEAN LUC ; KLOTZ MARTIN ; LUC ANDRE JEAN ; MARTIN KLOTZ
Inventor(s): JEAN LUC ANDRE
Agent(s): METZ PAUL; CABINET METZ PATNI
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 42004172 (WO08098712A1)

© PatBase

Title: POINTS FOR RAIL VEHICLES

Abstract: Points for rail vehicles, comprising two essentially parallel tongues (16, 18; 44) switchable between a first and a second position, arranged between one end of a fixed incoming rail (10) and the ends of two fixed outgoing rails (12, 14; 42), wherein, in the first position, a tongue (16) connects the end of the incoming rail (10) to the end of one (14) of the outgoing rails and in the second position, the other tongue (18) connects the end of the incoming rail (10) to the end of the other outgoing rail (12) and there is a gap (20) between the tongues in both positions over the entire length which does not drop below a given minimum width (B), characterised in that the tongues (16, 18; 44) are each divided into a pivoting section (22, 28) abutting the outgoing rails (12, 14; 42) and a section (26, 32) abutting the incoming rail which has a parallel offset in the second position relative to the first position.

Classifications:

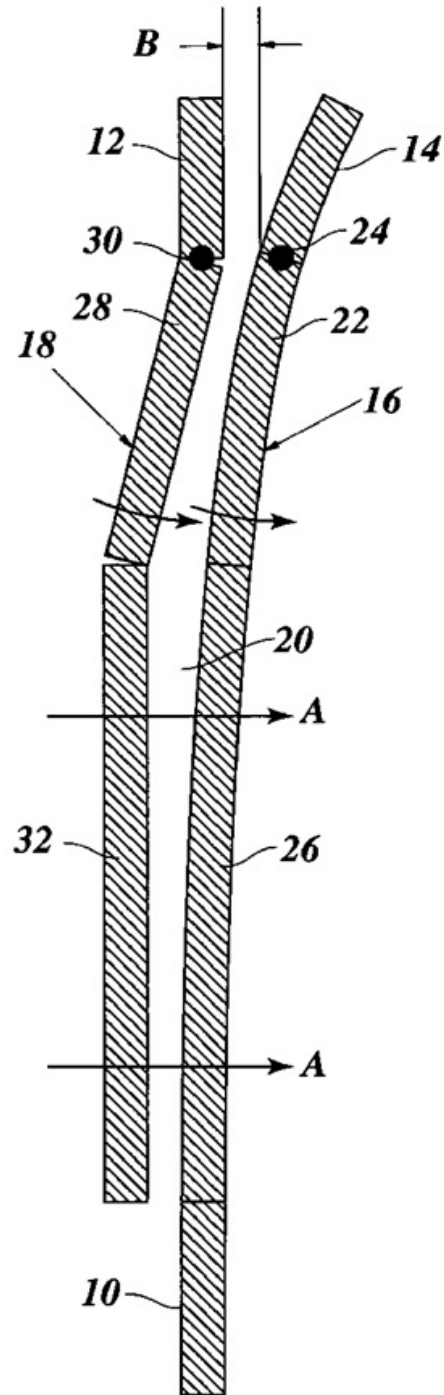
International (IPC 8-9): E01B25/12 E01B25/28

E01B7/04 (Advanced/Invention);

E01B25/00 E01B7/00 (Core/Invention)

CPC: E01B7/04 E01B25/12

European: E01B25/12 E01B7/04

Fig. 1**Family:**

Publication number	Publication date	Application number	Application date
DE202007002318 U1	20080626	DE200720002318U	20070213
WO08098712 A1	20080821	WO2008EP00991	20080208

Priority:

DE200720002318U 20070213

Probable Assignee: HANNING AND KAHL GMBH AND CO KG**Assignee(s):** (std): HANNING AND KAHL GMBH AND CO KG ; HELAS WOLFGANG ; MEINECKE JENS ; WORM GUENTER**Inventor(s):** (std): HELAS WOLFGANG ; MEINECKE JENS ; WORM GUENTER**Agent(s):** WIEBUSCH MANFRED

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

14) Family number: 42050578 (DE202007003459U1)

© PatBase

Title: Weiche fuer Schienenfahrzeuge Switch for rail-mounted vehicles (Machine translation)

Abstract: Source: DE202007003459U1 [DE] (Claim 1) Weiche fuer Schienenfahrzeuge, mit mindestens zwei verstellbaren Zungen, die so zwischen einem Ende einer festen einlaufenden Schiene (12) und den Enden mindestens zweier fester auslaufender Schienen (14, 16, 18) angeordnet sind, dass sie unterschiedliche Fahrwege (R, G, L) zwischen diesen Schienen definieren, dadurch gekennzeichnet, dass die Zungen jeweils in mehrere Abschnitte (22, 24, 26) unterteilt sind und dass die einander entsprechenden Abschnitte der verschiedenen Zungen jeweils so auf einem gemeinsamen Drehteller (20) angeordnet sind, dass sich je nach Winkelstellung der Drehteller die auf verschiedenen Drehtellern sitzenden Abschnitte (22, 24, 26) einer der Zungen zu dem entsprechenden Fahrweg (R, G, L) ergaenzen.

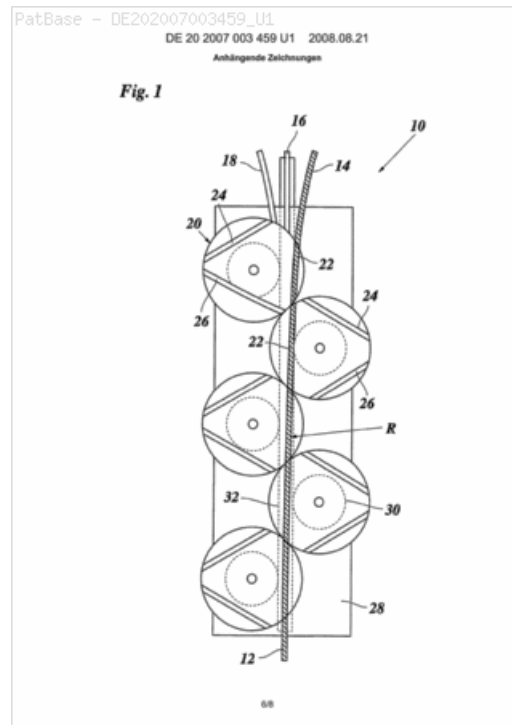
Machine translation: (Claim 1) switch for rail-mounted vehicles, with at least two adjustable tongues, which like that between an end of a firm incoming rail (12) and the ends of at least two firm running out rails (14, 16, 18) are arranged that they define different drives (R, G, L) between these rails, by the fact characterized that the tongues are divided into several sections (22, 24, 26) in each case and that the each other corresponding sections of the different tongues are located like that in each case on a common rotation plate (20) that itself depending upon angle position of the rotation plates the sections sitting on different rotation plates (22, 24, 26) one of the tongues to the appropriate drive (R, G, L) supplement.

Classifications:

International (IPC 8-9): E01B25/28 E01B7/04 (Advanced/Invention);
E01B25/00 E01B7/00 (Core/Invention)

CPC: E01B7/04 E01B25/28

European: E01B25/28 E01B7/04

**Family:**

Publication number	Publication date	Application number	Application date
DE202007003459 U1	20080717	DE200720003459U	20070308

Priority:

DE200720003459U 20070308

Probable Assignee: HANNING AND KAHL GMBH AND CO KG

Assignee(s): (std): HANNING AND KAHL GMBH AND CO KG

15) Family number: 42998954 (US2009065653A)

© PatBase

Title: FAST TRACK SWITCH

Abstract: A system for sequentially switching a plurality of guide ways to accommodate at least one vehicle with a plurality of ground engaging portions following a plurality of plural track segments is provided. The system includes a primary guide way to receive at least one of the plurality of ground engaging portions of the at least one vehicle and a secondary guide way located in proximity to the primary guide way. The secondary guide way may be configured to receive another of the plurality of ground engaging portions of the at least one vehicle. The system may also include a controller configured to sequentially switch the primary guide way and the secondary guide way whereby the at least one vehicle may travel in one direction or in another direction. A method of switching a plurality of guide ways is also presented.

Classifications:

International (IPC 8-9): B61B13/00 B61B13/06 E01B25/00 E01B25/06

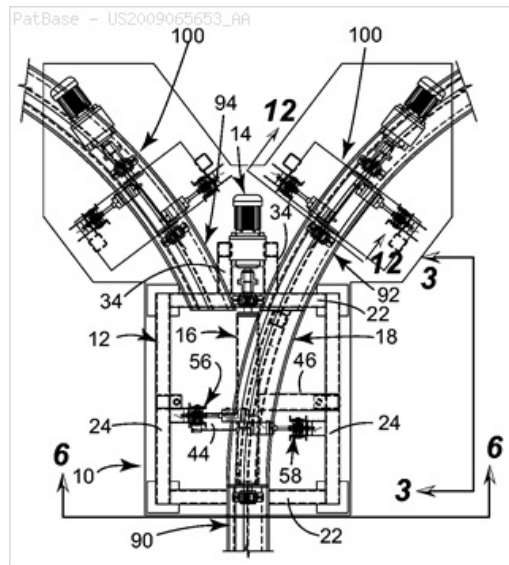
E01B25/12 E01B7/00 E01B7/20 (Advanced/Invention);

E01B25/06 E01B25/12 (Advanced/Non-invention);

E01B25/00 E01B7/00 (Core/Invention)

CPC: E01B25/06 E01B25/12

European: E01B25/06 E01B25/12



Family:

Publication number	Publication date	Application number	Application date
CN101802306 A	20100811	CN200880107216	20080728
CN101802306 B	20130102	CN200880107216	20080728
DE602008035701 D1	20150115	DE200860035701T	20080728
DE602008042986 D1	20160428	DE200860042986T	20080728
EP2201173 A1	20100630	EP20080796706	20080728
EP2201173 B1	20141203	EP20080796706	20080728
EP2832926 A1	20150204	EP20140190557	20080728
EP2832926 B1	20160316	EP20140190557	20080728
ES2529461 T3	20150220	ES20080796706T	20080728
ES2573302 T3	20160607	ES20140190557T	20080728
JP2010537893 T2	20101209	JP20100524072T	20080728
JP5576794 B2	20140820	JP20100524072T	20080728
KR101704530 B1	20170208	KR20107007401	20080728
KR20100065178 A	20100615	KR20107007401	20080728
US2009065653 AA	20090312	US20070850695	20070906
US2011260009 AA	20111027	US20110175675	20110701
US7997540 BB	20110816	US20070850695	20070906
US8371538 BB	20130212	US20110175675	20110701
WO09032423 A1	20090312	WO2008US71334	20080728

Priority:

US20070850695 20070906 EP20080796706 20080728 EP20140190557 20080728
WO2008US71334 20080728 US20110175675 20110701

Probable Assignee: UNIVERSAL CITY STUDIOS LLC

Assignee(s): (std): BRZEZIK WALDEMAR L ; HALLIDAY DAVID ; UNIVERSAL CITY STUDIOS LLC ; VANCE ERIC A ; UNIVERSAL CITY STUDIOS LLLP ; UNIVERSAL CITY STUDIOS LLP

Assignee(s): UNIVERSAL CITY STUDIOS LLC UNIVERSAL CITY

Inventor(s): (std): DAVID HALLIDAY ; HALLIDAY DAVID ; BRZEZIK WALDEMAR L ; VANCE ERIC A ; VANCE ERIC ; BRZEZIK WALDEMAR

Inventor(s): VANCE ERIC A OCOEE ; BRZEZIK WALDEMAR L PORT MOODY ; HALLIDAY DAVID MAPLE BRIDGE ; HALLIDAY DAVID MAPLE RIDGE

Agent(s): WITTMANN HERNANDEZ PATENTANWALTE PARTNERSCHAFT MBB; HERNANDEZ YORCK DIPL ING; GRAY THOMAS; AHMAD SHEIKH SHAKEEL; RICHARDSON MARK JONATHAN; LAZCANO JESUS; GENERAL ELECTRIC COMPANY; GE GLOBAL PATENT OPERATION; GENERAL ELECTRIC CO GE GLOBAL PATENT OPERATION; FLETCHER YODER; FLETCHER YODER PC; PHILLIPS ROGER C ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC 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

16) Family number: 64272558 (US2018163347A)

© PatBase

Title: OPERATING AND LOCKING MECHANISM FOR TURNOUTS OF CENTRAL RAIL-GUIDED VEHICLES

Abstract: An operating and locking mechanism for turnouts of central rail-guided vehicles, where the mechanism at the entrance of the turnout includes: a guide block fixed to a fixed part comprising having two guide grooves, two shafts fixed to a moving panel, a moving rocking lever which pivots around a shaft attached to the fixed element and centered with respect to the guide block and perpendicular to the main plane thereof, where the rocking lever includes grooves located on the main plane of the rocking lever within which rollers which are at a higher level with respect to the rollers of the shafts can be moved and rolled, and where the mechanism at the exit of the turnout includes: a guide block fixed to the fixed part having two guide grooves, two

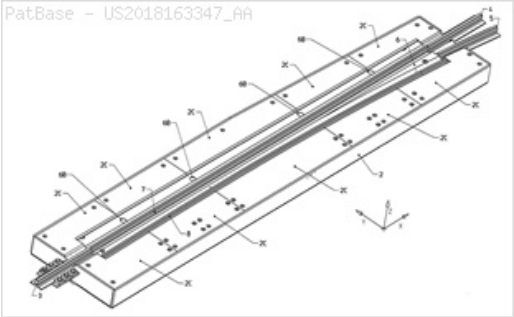
shafts fixed to the moving panel, a moving rocking lever which pivots around a shaft attached to the fixed element and centered with respect to the guide block and perpendicular to the main plane thereof, where the rocking lever comprises grooves located on the main plane of the rocking lever within which rollers which are at a higher level Z with respect to the rollers of the shafts can be moved and rolled, where the rocking levers move in a synchronous manner and in the same direction by means of rods of the drive motor, generating a rotation of the moving panel around the pivoting point such that the shafts simultaneously reach their locking positions through either the direct route or the diverted route.

Classifications:

International (IPC 8-9): B61L5/10 E01B25/28 (Advanced/Invention)

International (IPC 1-7): E01B25/28

CPC: B61L5/10 E01B25/28



Family:

Publication number	Publication date	Application number	Application date
BR112017026236 A2	20180911	BR20171126236	20160603
CA2988206 AA	20171204	CA20162988206	20160603
CN108138451 A	20180608	CN201680039986	20160603
CO20170012488 A2	20180209	CO20170012488	20171204
DE602015010651 D1	20180530	DE201560010651T	20150605
EP3101175 A1	20161207	EP20150382294	20150605
EP3101175 B1	20180502	EP20150382294	20150605
ES2682331 T3	20180920	ES20150382294T	20150605
MX2017015652 A1	20180619	MX20170015652	20160603
US2018163347 AA	20180614	US20160579691	20160603
WO16193522 A1	20161208	WO2016ES70415	20160603

Priority:

EP20150382294 20150605 WO2016ES70415 20160603

Probable Assignee: JEZ SISTEMAS FERROVIARIOS SL

Assignee(s): (std): JEZ SIST FERROVIARIOS S L ; VOESTALPINE VAE GMBH

Assignee(s): SANCHEZ JORRIN JUAN CARLOS ; JEZ SISTEMAS FERROVIARIOS S L ; JEZ SISTEMAS FERROVIARIOS SL ; JEZ SISTEMAS FERROVIARIOS SL LLODIO

Inventor(s): (std): JUAN CARLOS SANCHEZ JORRIN ; SANCHEZ JORRIN JUAN ; SANCHEZ JORRIN JUAN CARLOS

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP; JUAN CARLOS CUESTA QUINTERO; CARPINTERO LOPEZ FRANCISCO; CARPINTERO MARIO; CARPINTERO LOPEZ MARIO

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