

Search history

Search PA=(ARMANDO GUTIERREZ ACEVEDO) (Results 1)

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Search IC=(B62D) (Results 421723)

3:

Search 2 and 3 (Results 100)

4:

Search self and support* (Results 1000000)

5:

Search bus* or vehicle* (Results 1000000)

6:

Search 5 and 6 (Results 399241)

7:

Search 3 and 7 (Results 13938)

8:

Search tipping and resist* (Results 29867)

9:

Search 8 and 9 (Results 266)

10:

Search beam* (Results 1000000)

11:

Search 10 and 11 (Results 81)

12:

Search anchor* (Results 1000000)

13:

Search 12 and 13 (Results 22)

14:

1) Family number: 31019919 (GB1148073A)

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Title: Self-propelled vehicle

Abstract: 1,148,073. Tractors. E. BOBARD. 25 April, 1966 [14 May, 1965], No. 17950/66. Heading B7H. [Also in Division A1] A self-propelled vehicle for use with alternative agricultural or works-site attachments comprises a chassis having two flanks d and g, each of which includes a leg 8 and a strut 9 joined at an acute angle and interconnected by a support member 10 to the leg and one driven wheel 11, the two flanks being joined by a cross-member 1, a transmission 4 and a power unit preferably supported by the cross-member 1, vehicle reversing means, p.t.o. means (13), (Fig. 2, not shown) for driving an attachment and fixing means for an attachment on the flanks at a lower level than the cross-member, preferably comprising support surfaces which are transverse to the flanks. Each flank in Fig. 1 comprises a leg 8, enclosing a chain drive to the wheel 11 and two members 9, 10 in a triangular formation. The leg 8 is pivotal relative to the member 9 to adapt the height of the crossmember 1, which passes above the attachment with which the vehicle is used, to different attachments and the member 10 may be of arcuate form. The flanks are joined by further cross-members 3, 2, the latter carrying a driver's seat and an hydraulic three-point lift linkage 6 for a plough. The cross-member 2 may be replaced by a reaper-thresher, baler or other device which stiffens the vehicle. In an alternative construction, Fig. 4, each flank is formed from telescopic tubular horizontal members 9, 16 and two legs 8 and 15 supported respectively by a driven wheel and a steerable wheel and the motor 4a is slidably mounted on vertical supports 17 and connected to the transmission 4b by a shaft or belts and pulleys.

Classifications:

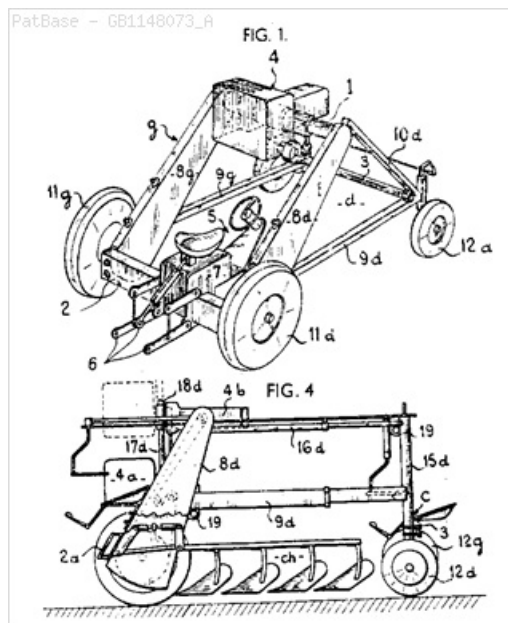
International (IPC 8-9): A01B51/02 A01D41/04 B62D21/18 B62D49/06 B65D5/50 (Advanced/Invention);

A01B51/00 A01D41/00 B62D21/18 B62D49/00 B65D5/50 (Core/Invention)

International (IPC 1-7): A01B51/00 A01B51/02 B62D49/06 B65D85/42

CPC: A01B51/026 A01D41/04 B62D21/186 B62D49/0607 B62D49/0678 B65D5/5045

European: A01B51/02M A01D41/04 B62D21/18C B62D49/06B B62D49/06H B65D5/50D4E

**Family:**

Publication number	Publication date	Application number	Application date
DE1505583 A1	19691030	DE19661505583	19660513
DE1632756 A1	19710121	DE19681632756	19680306
FR1448089 A	19660805	FR19650017145	19650514
FR93069 E	19690207	FR19670097628	19670306
GB1148073 A	19690410	GB19660017950	19660425
GB1207432 A	19700930	GB19680010751	19680305
GB586408 A	19470318	GB19450000171	19450102

Priority:

GB19450000171 19450102 FR19650017145 19650514 FR19670097628 19670306

Probable Assignee: EMILE BOBAR

Assignee(s): (std): BOBARD EMILE ; BOBARD EMILLE ; EMILE BOBAR ; LOUIS STANLEY MORRIS

Assignee(s): EMILLE BOBARD ; EMILE BOBARD ; EMILE BOBA

Inventor(s): (std): BOBA EMILE ; BOBARD EMILE ; BOBARD EMILLE

Inventor(s): EMILE BOBA ; EMILLE BOBARD

2) Family number: 22744309 (US2848860A)

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Title: Cotton picking spindle

Abstract: (Claim 1) 1. A cotton pickin, spindle comprising a generally cylindrical, narrow elongated member having a circumferential series of closely spaced longitudinal ribs thereon, said ribs having a pointed arch cross sectional configuration.

Classifications:

International (IPC 8-9): A01D45/02 A01D46/08 A01D46/14

B62D49/06 (Advanced/Invention);

A01D45/00 A01D46/00 B62D49/00 (Core/Invention)

International (IPC 1-7): A01D45/02 A01D45/18 F16H37/00

CPC: A01D45/02 A01D46/082 Y10S180/90 B62D49/06 A01D46/14

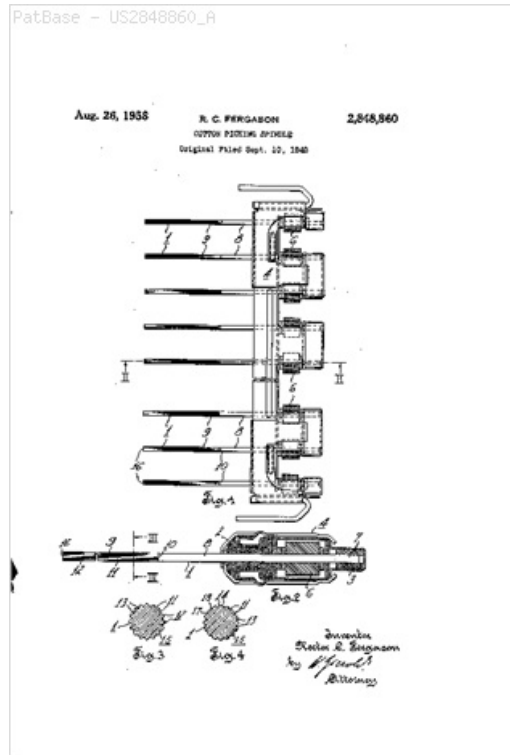
Y10T74/19167

European: 63C19 63C30A A01D45/02 A01D46/08B A01D46/14

B62D49/06

US: 172/307 172/491 172/506 180/215 180/291 180/53.1 180/900

296/106 406/144 414/470 56/15.7 56/42 56/50 74/15.4 74/745

**Family:**

Publication number	Publication date	Application number	Application date
US2671298 A	19540309	US19490114969	19490910
US2723769 A	19551115	US19540414013	19540304
US2771017 A	19561120	US19540414015	19540304
US2798353 A	19570709	US19540410481	19540216
US2800028 A	19570723	US19540414016	19540304
US2826030 A	19580311	US19540414014	19540304
US2848860 A	19580826	US19540409875	19540212

Priority:

US19490114969 19490910	US19540409875 19540212	US19540410481 19540216
US19540414013 19540304	US19540414015 19540304	US19540414014 19540304
US19540414016 19540304		

Probable Assignee: ALLIS CHALMERS MFG CO
Assignee(s): (std): ALLIS CHALMERS MFG CO
Assignee(s): ALLIS CHALMERS MANUFACTURING COMPANY
Inventor(s): (std): FERGASON RECTOR C

3) Family number: 29673940 (GB941611A)

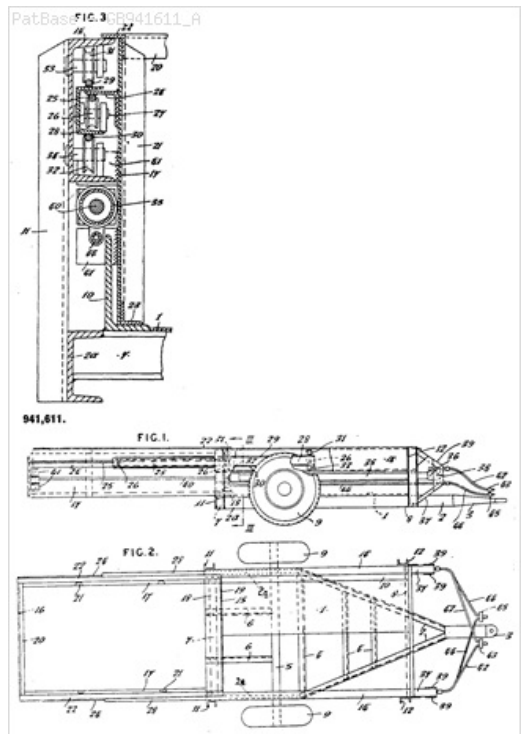
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Title: Improvements in self-discharging load-carrying vehicles

Abstract: 941,611. Vehicle walls moving to eject material. F. COWPER, R. N. MACKEY, W. H. NICHOLSON, and GOTHAM CO. Ltd., [trading as BEACON TRAILERS]. Jan. 22, 1960 [Jan. 30, 1959], No. 3453/59. Heading B8E. Three walls 17, 17, 18 (Figs. 1 and 2) sliding over the fixed floor 1 of a vehicle to discharge material are carried by rollers 26 (Fig. 3) mounted on intermediate slides 28 which run in turn on rollers 32 carried by the vehicle chassis. This permits the wall unit to project in cantilever fashion from the rear of the vehicle as shown in Fig. 1. The walls may be moved by rams 37, by chains driven manually, or through chain or bevel gearing from a power take-off, or by screw-and-nut devices. The axle of the road wheels 9 is preferably cranked so that the body may lie between the wheels as shown. In an alternative construction (Fig. 4, not shown) in which the body lies fully above the wheels, the walls are projected laterally, instead of to the rear. The driving means may be arranged so that the walls can be moved to either side. The fourth wall 16 of the body may move with the walls 17, 17, 18, as shown, or may instead pivot about its upper edge to permit the passage of material. The invention may be applied to an automotive vehicle or to a trailer.

Classifications:

International (IPC 8-9): B60P1/00 B60P9/00
 B62D53/06 (Advanced/Invention);
 B60P1/00 B60P9/00 B62D53/00 (Core/Invention)
International (IPC 1-7): B60P1/38 B60P1/56
CPC: B60P1/006 B60P9/00 B62D53/067
European: B60P1/00F B60P9/00 B62D53/06C



Family:

Publication number	Publication date	Application number	Application date
FR1246560 A	19601118	FR19600816875	19600128
GB941611 A	19631113	GB19590003453	19590130

Priority:

GB19590003453 19590130

Probable Assignee: WILLIAM HENRY NICHOLSON

Assignee(s): (std): FIRME BEACON TRAILERS ; FREDERICK COWPER ; GOTHAM COMPANY LTD ; ROBERT NORMAN MACKEY ; WILLIAM HENRY NICHOLSON

Assignee(s): THE GOTHAM COMPANY LIMITED ; GOTHAM CO LTD

Inventor(s): (std): COWPER FREDERICK ; FLOOD FRANK GEOFFREY ; MACKEY ROBERT NORMAN ; NICHOLSON WILLIAM HENRY

4) Family number: 22954507 (US3330429A)

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Title: POT HANDLING TRAILER

Abstract: 1,080,474. Tipping vehicles; transporting special loads. E. S. KRESS. June 9, 1966 [July 15, 1965], No. 25835/66. Heading B7B. A vehicle for carrying a ladle P has a U- shaped cradle provided with inwardly-open channels 40 to receive the trunnions 41 of the ladle, the ladle being unloaded by the jacks 60 which tip the cradle about its stub shaft 45 connection with the frame 22. The ladle P is removed from the vehicle by lowering the frame 22 by collapsing the jacks 32 between the frame and the road wheel supports 26 until the ladle rests on the ground, the trunnions 41 then being freed from the cradle by releasing the jack-operated locking levers 55.

Classifications:

International (IPC 8-9): B22D41/06 B22D41/12 B60P1/16

C21B3/10 (Advanced/Invention);

B22D41/00 B60P1/04 C21B3/00 (Core/Invention)

International (IPC 1-7): B22D41/12 B60P1/04 B60P1/16 B62D21/18

CPC: B22D41/06 B22D41/12 B60P1/16 C21B3/10

European: B22D41/06 B22D41/12 B60P1/16 C21B3/10

US: 298/5 414/421 414/458

Publication number	Publication date	Application number	Application date
BE681894 A	19661031		19660531
DE1580071 A1	19701029	DE19661580071	19660618
DE1580071 B2	19730607	DE19661580071	19660618
DE1580071 C3	19740103	DE19661580071	19660618
GB1080474 A	19670823	GB19660025835	19660609
SE309472 B	19690324	SE19660008973	19660630
US3330429 A	19670711	US19650472102	19650715

US19650472102 19650715

Probable Assignee: EDWARD SHEREDAN KRESS

Assignee(s): (std): EDWARD SHEREDAN KRESS ; KRESS E ; KRESS EDWARD S ; KRESS EDWARD SHERIDAN

Assignee(s): KRESS EDWARD SHERIDAN PEORIA ILL V ST A

Inventor(s): (std): KRESS EDWARD SHERIDAN ; SHERIDAN KRESS EDWARD ; KRESS EDWARD S ; KRESS E

Inventor(s): KRESS EDWARD SHERIDAN PEORIA ILL V ST A

5) Family number: 22949245 (US3349931A)

Title: TELESCOPING UNLOADING TRUCK

Abstract: (Claim 1) 1. In a telescoping unloading truck, a frame having hollow longitudinal side members, a U-shaped axle beam having upstanding arms connected to said side members, wheel spindles mounted on said arms, ground wheels on said spindles having sprocket wheels in said side members, drive chains for said sprocket wheels in said side members, a rear body section having a bottom wall connected to said axle beam below the axis of said wheel spindles and having side walls connected to said axle beam arms and frame side members, a front body section having bottom and side walls telescoping within said rear section walls, and wheels on upper front portions of said front body section running on said frame side members.

Classifications:

International (IPC 8-9): B62D53/02 (Advanced/Invention);

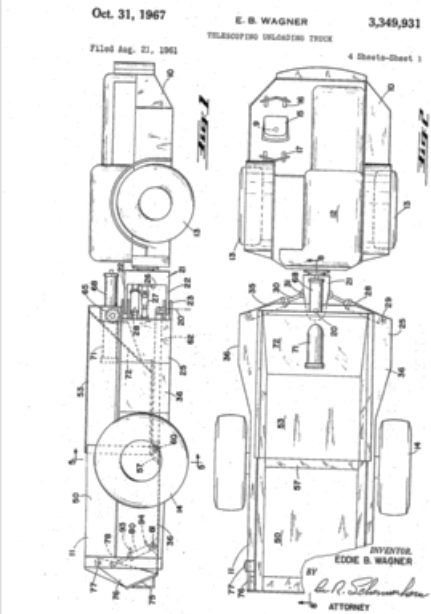
B62D53/00 (Core/Invention)

International (IPC 1-7): B60P1/04

CPC: B62D53/021

European: B62D53/02C

US: 296/26.09 414/512 414/517



Family:

Publication number	Publication date	Application number	Application date
US3349931 A	19671031	US19610132724	19610821

Priority:

US19610132724 19610821

Probable Assignee: WAGNER MINING SCOOP INC
Assignee(s): (std): WAGNER MINING SCOOP INC
Inventor(s): (std): WAGNER EDDIE B

6) Family number: 19195525 (US3528678A)

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Title: CHASSIS FOR COMMERCIAL VEHICLES

Abstract: ABSTRACT OF THE DISCLOSURE

A chassis for commercial vehicles wherein each of the wheels is independently suspended with a frame structure between the front and rear wheels allowing smooth riding and good road holding qualities in both laden and unladen conditions.

Classifications:

International (IPC 8-9): B60G11/30 B60G21/00 B60G21/06 B60G3/20 B60G3/24 B62D21/08 B62D31/02 B62D33/02 (Advanced/Invention); B60G11/26 B60G21/00 B60G3/18 B62D21/08 B62D31/00 B62D33/02 (Core/Invention)

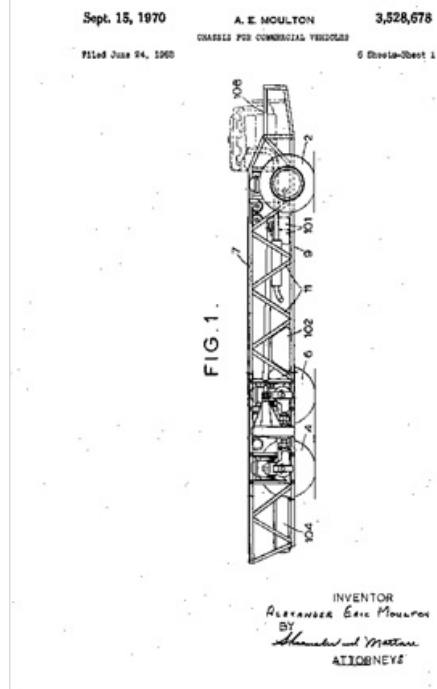
International (IPC 1-7): B60G11/28 B60G11/30 B60G11/32 B60G13/08

B60G19/06 B60G3/20 B60K5/00 B62D21/00 B62D21/08

CPC: B60G3/20 B60G3/24 B60G11/30 B60G21/00 B60G21/06 B60G2300/14 B62D21/08 B62D31/02 B62D33/02 B60G2204/13 B60G2204/416

European: B60G11/30 B60G21/00 B60G21/06 B60G3/20 B60G3/24 B62D21/08 B62D31/02 B62D33/02 L60G204/130 L60G204/416 L60G300/14

US: 280/106 280/124.136 280/124.143 280/5.506 280/6.157 280/781 280/796 280/798 280/96.2 280/962

**Family:**

Publication number	Publication date	Application number	Application date
DE1755810 A1	19711216	DE19681755810	19680624
DE1755810 B2	19760701	DE19681755810	19680624
DE1755810 C3	19771013	DE19671755810	19680624
DE1755811 A1	19710729	DE19681755811	19680624
DE1755811 B2	19770707	DE19681755811	19680624
DE1755811 C3	19780216	DE19671755811	19680624
DE1995362 U	19681024	DE19681995362U	19680624
DE6751082 U	19690123	DE19670051082U	19680624
FR1571048 A	19690613		19680624
FR1581592 A	19690919		19680624
GB1221933 A	19710210	GB19670028929	19670622
GB1221934 A	19710210	GB19680004579	19670622
SE353492 B	19730205	SE19680008503	19680624
SE353685 B	19730212	SE19680008502	19680624
US3528678 A	19700915	US19680739365	19680624
US3537722 A	19701103	US19680745334	19680624

Priority:

GB19670028929 19670622 GB19680029475 19670622 GB19680004579 19680129

Probable Assignee: MOULTON DEVELOPMENT LTD

Assignee(s): (std): MOULTON DEVELOPMENT LTD ; MOULTON DEVELOPMENTS LTD BRADFORD ON AVON WILTSH ; MOULTON DEVELOPMENTS LTD BRADFORD ON AVON WILTSHIR

Assignee(s): MOULTON DEVELOPMENTS LIMITED ; MOULTON DEVELOPMENTS LTD ; MOULTON DEV LTD ; MOULTON DEV LTD GB

Inventor(s): (std): ERIC MOULTON ALEXANDER ; MOULTON A ; MOULTON A GB ; MOULTON ALEXANDER ERIC ; MOULTON ALEXANDER ERIC BRADFORD ON AVON WILTSHIRE

Inventor(s): ALEXANDER ERIC MOULTON

7) Family number: 4396599 (US4669391A)

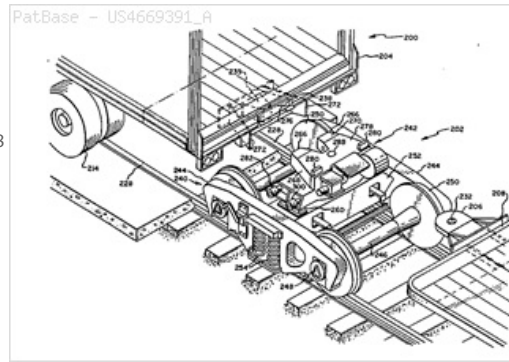
© PatBase

Title: TRAIN OF HIGHWAY TRAILERS

Abstract: Novel highway trailers can be mounted on railtruck assemblies to form a train of highway trailers, the railtruck assemblies including a conventional railtruck which supports a novel intermodal adaptor. The novel highway trailers include a forwardly extending tongue and coupling structure at the rear to which may be secured the tongue of a following trailer and the intermodal adaptor of a railtruck assembly. The intermodal adaptor is mounted on the center plate bowl of the bolster of the railtruck. The adaptor includes locating structure adapted to be received within the coupling structure of a leading highway trailer, which locating structure permits the leading highway trailer and intermodal adaptor to become aligned with each other upon relative movement. The intermodal adaptor further includes securing structure capable of maintaining the locating structure within the coupling structure of the highway trailer in a completely mounted position, a coupler pin, and a shifting structure capable of moving the coupler pin from a lower position to a raised position where it couples the forward end of a tongue of a following trailer to the rear of the leading trailer and the intermodal adaptor.

Classifications:

International (IPC 8-9): B60F1/04 B60G5/02 B61D3/12 B61D3/18
B61F1/00 B61F1/08 B61F3/12 B61F5/00 B61F5/16
B61G5/02 (Advanced/Invention);
B61F1/00 B61F5/00 (Advanced/Non-invention);
B61F1/00 B61F5/00 (Core/Invention)
International (IPC 1-7): B60D1/07 B60F1/00 B60F1/04 B61D15/00
B61D17/00 B61D3/00 B61D3/10 B61D3/12 B61D3/18 B61F1/00 B61F1/08
B61F13/00 B61F3/12 B61F5/00 B61F5/22 B61G1/00 B61G5/00 B61G5/02
B62D21/00 B62D21/20 B62D53/00
CPC: B60F1/046 B60F1/04 B60G5/02 B61D3/12 B61D3/184 B61F3/12
B61F3/125 B61F5/16 B61G5/02 Y02T30/30
European: B60F1/04 B60F1/04C B60G5/02 B61D3/12 B61D3/18B2
B61F3/12 B61F3/12B B61F5/16 B61G5/02 Y02T30/30
US: 105/159 105/215.2 105/4.1 105/4.3 213/188 280/408 410/53 410/64



Family:

Publication number	Publication date	Application number	Application date
AT63506 E	19910615	AT19870108093T	19870604
AU198658066 A1	19861211	AU19860058066	19860529
AU198774405 A1	19880107	AU19870074405	19870616
AU198821734 A1	19881201	AU19880021734	19880831
AU580670 B2	19890127	AU19860058066	19860529
AU595617 B2	19900405	AU19870074405	19870616
AU596320 B2	19900426	AU19880021734	19880831
BRPI8703070 A	19880308	BR1987PI03070	19870618
CA1286153 A1	19910716	CA19870539101	19870608
CA1290987 A1	19911022	CA19860510207	19860528
CN1007140 B	19900314	CN19871004292	19870619
CN87104292 A	19880720	CN19871004292	19870619
DE3618304 A1	19870102	DE19863618304	19860530
DE3618304 C2	19940421	DE19863618304	19860530
DE3770053 D1	19910620	DE19873770053	19870604
EP0249816 A2	19871223	EP19870108093	19870604
EP0249816 A3	19880224	EP19870108093	19870604
EP0249816 B1	19910515	EP19870108093	19870604
ES2022205 B3	19911201	ES19870108093T	19870604
FR2582589 A1	19861205	FR19860007953	19860603
FR2582589 B1	19911122	FR19860007953	19860603
GB2178385 A1	19870211	GB19860013390	19860603
GB2178385 B2	19890118	GB19860013390	19860603
GB8613390 A0	19860709	GB19860013390	19860603
GR3002240 T3	19921230	GR19910400950T	19910703
IN170266 A	19920307	IN1987MA00415	19870604
MX168936 B	19930615	MX19870006984	19870618
NZ220545 A	19881028	NZ19870220545	19870603
SU1612993 A3	19901207	SU19874203044	19870618
US4669391 A	19870602	US19850740650	19850603
US4766818 A	19880830	US19860900547	19860826
US4841872 A	19890627	US19860876248	19860619
US4907514 A	19900313	US19880204892	19880610
US4981082 A	19910101	US19880183344	19880418
US5040466 A	19910820	US19870079501	19870730
ZA8704152 A	19871211	ZA19870004152	19870610

Priority:

US19830469215 19830224	US19830542264 19831017	US19850740650 19850603
CA19860510207 19860528	AU19860058066 19860529	US19860876248 19860619
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Probable Assignee: WABASH NATIONAL LP

Assignee(s): (std): RAILMASTER SYSTEMS INC ; REJLMASER SISTEM ; RAILMASTER SYSTEM INC

Assignee(s): RAILMASTER SYSTEM INC HAMBURG N Y US ; FLEET CAPITAL AGENT AS CORP ; FLEET CAPITAL AGENT CORP AS ; FLEET CAPITAL CORP ; W ASH NATIONAL ABCORP ; WABASH NATIONAL CORP ; WABASH TECHNOLOGY CORP ; WABASH NATIONAL LP ; REJLMASER SISTEM OHK OPMA ; WABASH NATIONAL DELAWARE CORP ; RAILMASTER SYSTEMS INC CHICAGO HEIGHTS ILL US ; WICKS HARRY O ; RIEFLER MONTE P ; WABASH NATIONAL (DELAWARE) CORP

Inventor(s): (std): HARRY O WICKS ; VIKS KHERRI O ; RIFLER MONTE P ; RIEFLER MONTE P ; RIEFLER M P ; WICKS H O ; WICKS HARRY O ; MONTE P RIEFLER

Inventor(s): HARRY O WICKS ET MONTE P RIEFLER ; NAME NOT GIVEN ; P RIEFLER MONTE ; O WICKS HARRY ; MONTE PRIFLER US ; KHERRI OVIKS US ; MONTE P RIFLER US ; KHERRI O VIKS US

Agent(s): GRIFFITH HACK ; SHELSTON IP ; SHELSTON IP PTY LTD ; GOWLING LAFLEUR HENDERSON LLP ; MCFADDEN FINCHAM ; OSLER HOSKIN AND HARCOURT LLP

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

Title: Self-configuring air deflector

Abstract: Air deflector having a trapezoidal front guide surface which is situated at right angles to the driving direction and rises towards the rear, and triangular lateral surfaces which close at the side. At least the front guide surface can be stretched and deformed elastically and has in the region of the upper half of its surface an elongated, stiffened zone which is supported on a rigid abutment in such a way that the large portion of its surface is located below the abutment and the smaller portion is located above. The flexible guide surfaces automatically assume a particularly streamlined shape under the action of the slipstream.

Classifications:

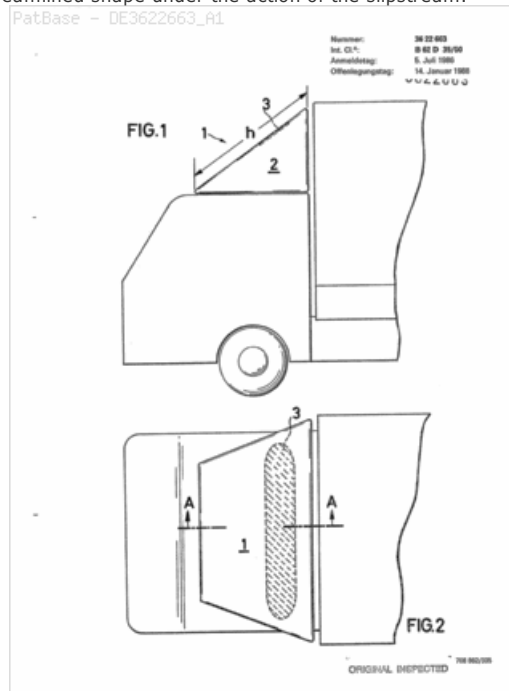
International (IPC 8-9): B62D35/00 (Advanced/Invention);

B62D35/00 (Core/Invention)

International (IPC 1-7): B62D35/00

CPC: B62D35/001

European: B62D35/00B



Family:

Publication number	Publication date	Application number	Application date
DE3622663 A1	19880114	DE19863622663	19860705

Priority:

DE19863622663 19860705

Probable Assignee: HOECHST AG

Assignee(s): (std): HOECHST AG

Inventor(s): (std): GOLLY HELMUT DR ; HEINZ OTTO ; LECHLE WOLFGANG ; THIELE WILHELM

Title: Frame structure for lift crane machinery

Abstract: A lift crane having enhanced lifting capability includes a self-installing counterweight system which utilizes actuators forming part of a counterweight assembly for raising the counterweight to an operative position with respect to the rear of the crane. A pair of slidable counterweight beams are slidably supported within main frame members forming part of the upper works of the crane and have their outer ends attached to the counterweight. Fluid pressure operated actuators within the frame members extend and retract the beams in order to move the counterweight rearwardly with respect to the rear of the crane. The upperworks also includes spaced-apart, parallel frame members each having a pair of spaced-apart vertical side plates with integral flange sections extending upwardly. The flanged sections include mounting locations for hoist machinery which utilize pins for easily mounting and dismounting the equipment. Drip pans including drain plugs are provided and located below machinery components that are likely to discharge fluid.

Classifications:

International (IPC 8-9): B62D49/08 B66C23/74 (Advanced/Invention);

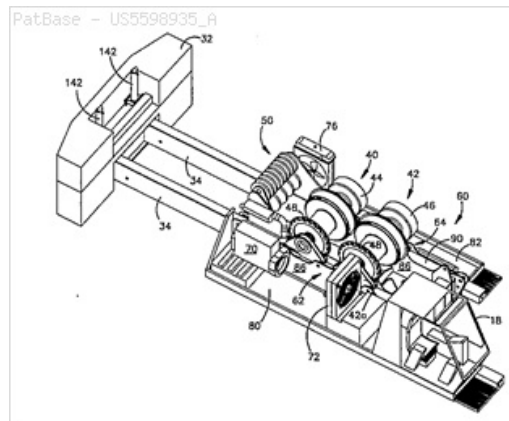
B62D49/00 B66C23/00 (Core/Invention)

International (IPC 1-7): B60P1/04 B62D25/20 B66C13/18 B66C23/72

CPC: B62D49/085 B66C23/74

European: B62D49/08B B66C23/74

US: 180/69.1 180/691 212/178 212/197 212/308



Family:

Publication number	Publication date	Application number	Application date
AU199464080 A1	19941011	AU19940064080	19940315
US5598935 A	19970204	US19930033509	19930318
WO9421549 A1	19940929	WO1994US02765	19940315

Priority:

US19930033509 19930318 WO1994US02765 19940315

Probable Assignee: AMERICAN CRANE CORP

Assignee(s): (std): AMERICAN CRANE CORP ; BEER WALTER A ; CHILDERS KEITH H ; HARRISON DON R ; MABRY CLYDE B III

Assignee(s): MABRY CLYDE B

Inventor(s): (std): BEER WALTER A ; CHILDERS KEITH H ; HARRISON DON R ; MABRY CLYDE B III ; MABRY III CLYDE B

Inventor(s): WALTER A BEER ; KEITH H CHILDERS ; DON R HARRISON ; CLYDE B MABRY III ; MABRY CLYDE B

Designated states: AT AU BE CH DE DK ES FI FR GB GR IE IT JP KR LU MC NL PT SE

10) Family number: 15038153 (US6223855B)

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Title: DEVICE FOR DISMANTLING VEHICLES, IN PARTICULAR FOR DRAINING THE LATTER

Abstract: The present invention concerns a device for dismantling vehicles, in particular for draining the latter. The device comprises, on pillars (30), a framework on which the vehicles are placed and inspection-type work platforms (40, 50, 60, 80, 90) which can optionally be pivoted to the side. At least one tank-emptying module and/or at least one liquid-collection module and/or at least one liquid-extraction module are provided on the framework.

Classifications:

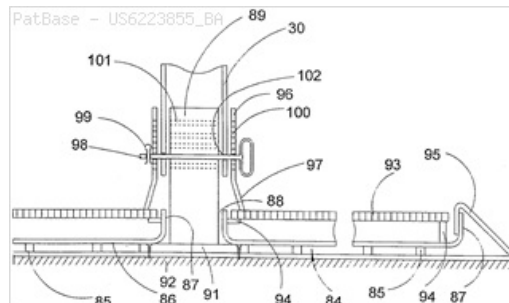
International (IPC 8-9): B09B3/00 B09B5/00 B60S5/00 B62D65/00 B62D67/00 (Advanced/Invention); B09B3/00 B62D65/00 B62D67/00 (Advanced/Non-invention); B09B3/00 B09B5/00 B60S5/00 B62D65/00 B62D67/00 (Core/Invention)

International (IPC 1-7): B09B3/00 B09B5/00 B60S5/00 B62D65/00 E04G1/00

CPC: B09B3/0058 B09B2220/10 B62D67/00 B09B5/00 B60S5/00 Y10T137/3802 Y02W30/56

European: B09B5/00 B60S5/00 B62D67/00

US: 137/234.6 182/131



Family:

Publication number	Publication date	Application number	Application date
AT162483 E	19980215	AT19940929475T	19941012
AU199478525 A1	19960506	AU19940078525	19941012
AU703808 B2	19990401	AU19940078525	19941012
CA2202524 AA	19960425	CA19942202524	19941012
CA2202524 C	20020604	CA19942202524	19941012
DE59405133 D1	19980226	DE19945005133	19941012
EP0762966 A1	19970319	EP19940929475	19941012
EP0762966 B1	19980121	EP19940929475	19941012
JP10513131 T2	19981215	JP19960512826T	19941012
KR19970706164 A	19971103	KR19970702388	19941012
US6223855 BA	20010501	US19970836069	19970707
WO9611835 A1	19960425	WO1994DE01220	19941012

Priority:

EP19940929475 19941012 WO1994DE001220 19941012 WO1994DE01220 19941012

Probable Assignee: ITOCHU CORP

Assignee(s): (std): ANTON LINDNER ; ITOCHU CORP ; LINDNER ANTON

Assignee(s): LINDNER ANTON 83131 NUSDORF DE
Inventor(s): (std): LINDNER ANTON
Inventor(s): LINDNER ANTON 83131 NUSDORF DE ; ANTON LINDNER
Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP
Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA US UZ VN

11) Family number: 32629797 (EP1627803A1)

© PatBase

Title: Trailers

Abstract: The present invention includes a trailer 10 supported on a pair of wheels 14. When loaded, or during loading the strain in one or both arms 18 is monitored. If that exceeds a predetermined value then adjustment of the load can take place either in the forward or aft direction or in a sideways direction. Two wheels are provided at each side of the frame each pivotally connected to a common member that is in turn pivotally connected to the frame.

Classifications:

International (IPC 8-9): B60D1/00 B60D1/58 B60G11/23 B60G5/02 B62D21/20 B62D53/00 B62D63/06 G01G19/12 G01L1/22

G01L5/13 (Advanced/Invention);

B60D1/00 B60G11/00 B60G5/00 B62D21/18 B62D53/00 B62D63/00

G01G19/08 G01L1/20 G01L5/13 (Core/Invention)

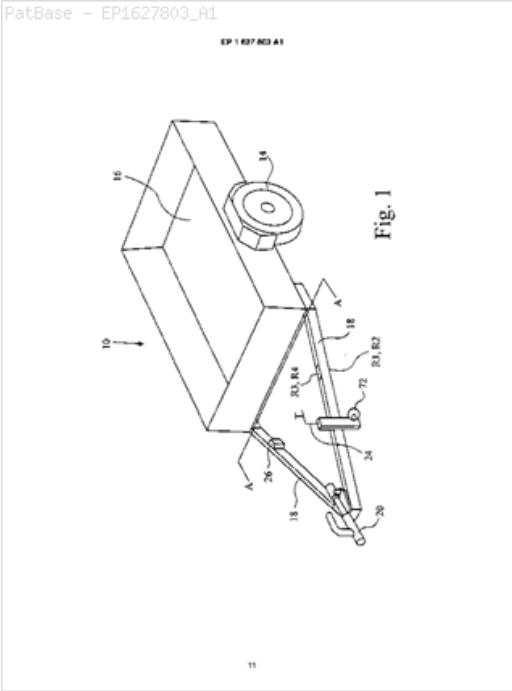
CPC: B60G11/23 B60G2200/318 B60G2202/144 B60G2300/04 B62D21/20

B60D1/58 B62D53/00 G01G19/12 G01L5/136 B60G5/02 B62D63/06

European: B60D1/58 B60G11/23 B60G5/02 B62D21/20 B62D53/00

B62D63/06 G01G19/12 G01L5/13D L60G200/318 L60G202/144

L60G300/04



Family:

Publication number	Publication date	Application number	Application date
EP1627803 A1	20060222	EP20050255007	20050811
GB200418446 A0	20040922	GB20040018446	20040819
GB200501920 A0	20050309	GB20050001920	20050131
GB200516481 A0	20050914	GB20050016481	20050811
GB200516484 A0	20050914	GB20050016484	20050811
GB2417332 A1	20060222	GB20050016481	20050811
GB2422582 A1	20060802	GB20050016484	20050811
GB2422582 B2	20080806	GB20050016484	20050811

Priority:

GB20040018446 20040819 GB20050001920 20050131

Probable Assignee: BRADLEY DOUBLELOCK LTD

Assignee(s): (std): BRADLEY DOUBLELOCK LTD

Assignee(s): BRADLEY DOUBLELOCK LIMITED

Inventor(s): (std): CHILD CRAIG ; HISTED MARTIN ; SPENCER ANDREW

Inventor(s): ANDREW SPENCER ; MARTIN HISTED ; CRAIG CHILD

Designated states: DE ES FR

12) Family number: 43633325 (US2009205884A)

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Title: PAYLOAD-CARRYING MOTOR VEHICLE WITH TAG AXLE HAVING PRIMARY AND SECONDARY SUSPENSION

Abstract: A payload-carrying motor vehicle comprises a frame, a steer axle, tandem drive axles, at least one pusher axle located between the steer axle and drive axles, and a tag axle. The axles each have wheels with tires and a steer axle suspension system suspends the steer axle from the frame, a drive axle suspension system suspends the drive axles from the frame, a

pusher axle suspension system including gas springs suspends the pusher axle from the frame, and a tag axle suspension system including a primary tag axle suspension and a secondary tag axle suspension suspends the tag axle from the frame behind the drive axles. The primary tag axle suspension is adapted to suspend the tag axle for pivotal movement about a first axis parallel to the other axles and includes actuators incorporating a gas spring adapted to apply a predetermined force on the tag axle urging pivotal movement of the tag axle about the first axis in a direction forcing the tag axle tires to bear against a road surface at a location rearward of the drive axles to aid in supporting the frame together with the other axles. The secondary tag axle suspension is adapted to support the tag axle for tilting movement about a second axis located equidistant from the tag axle wheels and laying in a plane at right angles to the first axis and includes gas springs having a significantly higher gas charging pressure and significantly less spring compliance than the gas springs in the primary tag axle suspension operatively arranged on opposite sides of the second axis between the primary tag axle suspension and the tag axle so as to support only lateral loads on the frame.

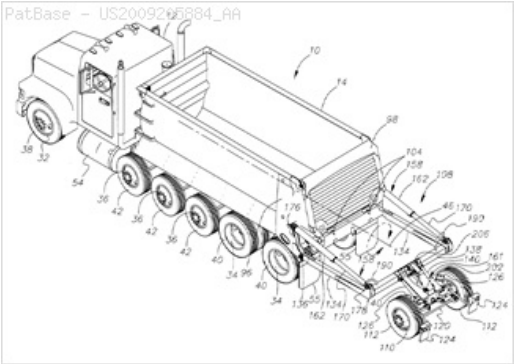
Classifications:

International (IPC 8-9): B62D61/10 (Advanced/Invention);
B62D61/00 (Core/Invention)

CPC: B62D61/12

European: B62D61/12

US: 180/209 180/24.02 280/86.5



Family:

Publication number	Publication date	Application number	Application date
US2009205884 AA	20090820	US20080070041	20080215
US7775308 BB	20100817	US20080070041	20080215

Priority:

US20080070041 20080215

Probable Assignee:

STRONG BROOKS

Assignee(s): (std):

STRONG BROOKS

Inventor(s): (std):

STRONG BROOKS

Agent(s):

RONALD L PHILLIPS; RONALD L

13) Family number: 43633329 (US2009205885A)

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Title: PAYLOAD-CARRYING MOTOR VEHICLE WITH TAG AXLE HAVING FORCE RELIEVABLE SUSPENSION

Abstract: A payload-carrying motor vehicle comprises a steer axle, at least one drive axle and a tag axle. All of the axles have wheels with tires and brakes and a tag axle suspension system is adapted to suspend the tag axle in an active condition wherein the tag axle is pivotal about a first axis parallel to the other axles and also about a second axis located equidistant from the tag axle wheels and laying in a plane at right angles to the first axis and wherein the tag axle trails the drive axle and is forced to urge the tag axle tires against a road surface to aid in supporting the vehicle. A tag axle operating system is adapted to establish the tag axle in the active condition and relieve the force on the tag axle when the tag axle pivots about the second axis and reaches a predetermined tilt angle in maintaining contact of the tag axle tires with a road surface.

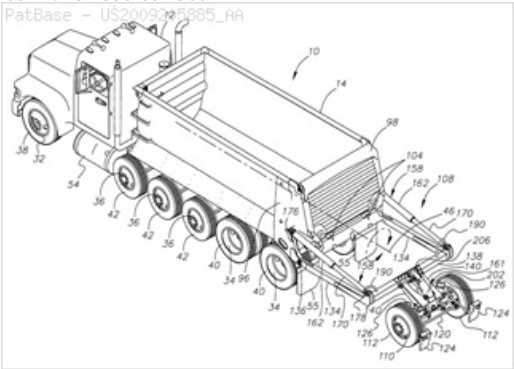
Classifications:

International (IPC 8-9): B62D61/10 B62D61/12 (Advanced/Invention);
B62D61/00 (Core/Invention)

CPC: B62D61/12

European: B62D61/12

US: 180/24.02 280/86.5



Family:

Publication number	Publication date	Application number	Application date
US2009205885 AA	20090820	US20080070049	20080215
US7740252 BB	20100622	US20080070049	20080215

Priority:

US20080070049 20080215

Probable Assignee:

STRONG BROOKS

Assignee(s): (std):

STRONG BROOKS

Inventor(s): (std):

STRONG BROOKS

Agent(s):

RONALD L PHILLIPS; RONALD L

Title: PAYLOAD-CARRYING MOTOR VEHICLE WITH TAG AXLE HAVING DISABLEABLE BRAKES

Abstract: A payload-carrying motor vehicle comprises a steer axle, at least one drive axle and a tag axle. All of the axles have wheels with tires and air brakes and a tag axle suspension system is adapted to suspend the tag axle in an active condition wherein the tag axle is pivotal about a first axis parallel to the other axles and also about a second axis located equidistant from the tag axle wheels and laying in a plane at right angles to the first axis and wherein the tag axle is forced to urge the tag axle tires against a road surface to aid in supporting the vehicle. An air brake system is adapted to operate the air brakes of all the wheels and a tag axle operating system is adapted to establish the tag axle in the active condition while enabling operation of the air brakes of the tag axle wheels and to disable operation of the air brakes of the tag axle wheels when the tag axle pivots about the second axis and reaches a predetermined tilt angle in maintaining contact of the tag axle tires with a road surface.

Classifications:

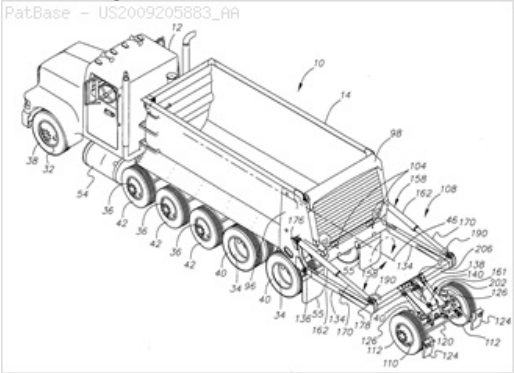
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B62D61/00 (Core/Invention)

CPC: B60T13/683 B62D61/12

European: B60T13/68B B62D61/12

US: 180/24.02 280/86.5



Family:

Publication number	Publication date	Application number	Application date
US2009205883 AA	20090820	US20080070040	20080215
US7775533 BB	20100817	US20080070040	20080215

Priority:

US20080070040 20080215

Probable Assignee:

STRONG BROOKS

Assignee(s): (std):

STRONG BROOKS

Inventor(s): (std):

STRONG BROOKS

Agent(s):

RONALD L PHILLIPS; RONALD L

Title: TAG AXLE OPERATING SYSTEM

Abstract: An operating system for a tag axle having wheels with tires and air brakes wherein the tag axle is suspended from a motor vehicle and is raised and lowered by pivotal movement about a first axis by operation of parallel-arranged hydraulically-operated actuators and can also pivot about a second axis located equidistant from the tag axle wheels and laying in a plane at right angles to the first axis. The system comprises a closed gas circuit that is charged with a gas at a prescribed pressure and a hydraulic circuit that is adapted to deliver hydraulic fluid under pressure to the actuators to raise and establish the tag axle in an inactive condition and to lower and establish the tag axle in an active condition. The hydraulic circuit is adapted when the tag axle is in the active condition to establish a prescribed hydraulic operating pressure opposing the gas pressure and a resulting force on the tag axle forcing the tires to bear against a road surface and the tag axle to accept a predetermined load. A brake valve is adapted to allow air under pressure to be delivered to operate the air brakes while the prescribed hydraulic operating pressure is maintained and to prevent such delivery to thereby disable the air brakes when the prescribed hydraulic operating pressure is relieved. And the hydraulic circuit is adapted while the tag axle is in the active condition to relieve the prescribed hydraulic operating pressure and thereby relieve the force on the tag axle and disable the air brakes when the tag axle experiences a predetermined tilt angle when pivoting about the second axis.

Classifications:

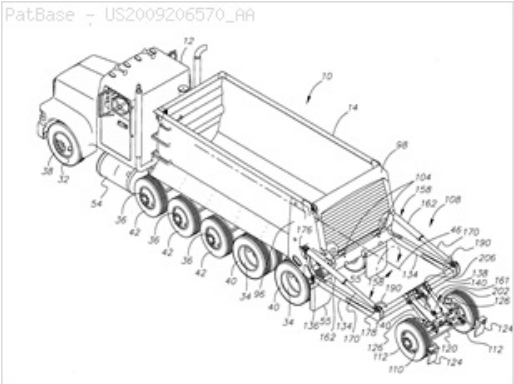
International (IPC 8-9): B62D61/12 (Advanced/Invention);

B62D61/00 (Core/Invention)

CPC: B62D61/12

European: B62D61/12

US: 180/209 180/24.02 280/86.5



Family:

Publication number	Publication date	Application number	Application date
US2009206570 AA	20090820	US20080070048	20080215
US7731208 BB	20100608	US20080070048	20080215

Priority:

US20080070048 20080215

Probable Assignee: STRONG BROOKS

Assignee(s): (std): STRONG BROOKS

Inventor(s): (std): STRONG BROOKS

Agent(s): RONALD L PHILLIPS; RONALD L

16) Family number: 50905926 (US2013233630A)

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Title: ROBOTIC BALL DEVICE WITH IMPROVED ROBUSTNESS AND A MULTITUDE OF INTERACTIVE AND SENSING CAPABILITIES

Abstract: A robotic ball device having a center point and an axis of rotation passing through the center point around which the robotic ball device rotates during motion in a forward linear direction includes a housing and a defined pathway located on an inner face of the housing that forms a closed loop around the axis of rotation. A rolling member is contained in the housing and movably disposed on the defined pathway. An actuator is coupled to the rolling member for actuating rotation of the rolling member. A weighted component is operationally coupled to the rolling member, and the weighted component is sufficiently heavy to maintain the rolling member, during a motion in the forward linear direction, at a substantially constant angular position in a forward vertical plane, which dissects the rolling member, relative to an origin in a moving frame of reference that moves with the robotic ball device.

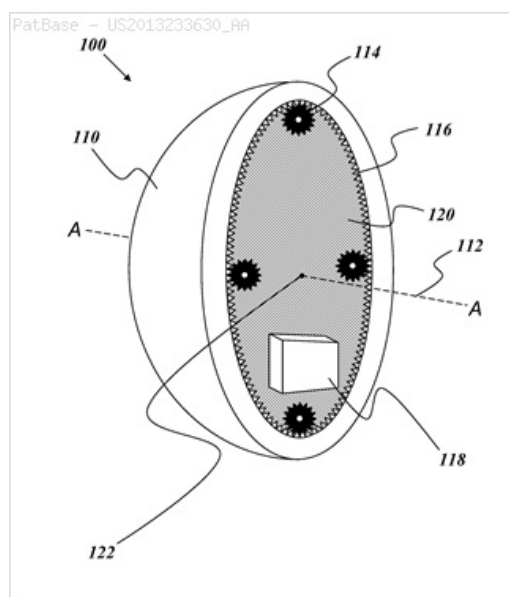
Classifications:

International (IPC 8-9): A63B37/00 A63H29/22 B60B19/14 B60K7/00 B62D61/00 (Advanced/Invention)

CPC: B60K7/00 Y10S901/01 A63B37/0055 A63B43/00 A63B43/04 A63H17/00 B60B3/048 B60B19/14

European: A63B43/00 A63B43/04 A63H17/00 B60B19/14 B60B3/04D K63B37/00G10B7

US: 180/21 464/159 901/1



Family:

Publication number	Publication date	Application number	Application date
US2013233630 AA	20130912	US20110823011	20110928
US8910734 BB	20141216	US20110823011	20110928
WO12040849 A1	20120405	WO2011CA50604	20110928

Priority:

US20100387567P 20100929 US20110823011 20110928 WO2011CA50604 20110928

Probable Assignee: 7312903 CANADA INC

Assignee(s): (std): 7312903 CANADA INC ; CARON SERGE ; FERLAND FRANCOIS ; SALTER TAMIE ; TANGUAY MATTHIEU

Assignee(s): SALTER TAMIE DR

Inventor(s): (std): TANGUAY MATTHIEU ; SALTER TAMIE ; FERLAND FRANCOIS ; CARON SERGE

Agent(s): MORSE BARNES BROWN AND PENDLETON PC; SEAN D; SMART AND BIGGAR

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

17) Family number: 52410293 (US8316774B)

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Title: AUXILIARY DRIVE SYSTEM FOR A HIGH-RAIL VEHICLE

Abstract: An auxiliary drive system for a high-rail vehicle comprises a high-rail vehicle having a first prime mover, a disengaged transmission, a chassis, a first set of on-road wheel assemblies and a second set of rail wheels, a cab for controlling the high-rail vehicle on road, a remote cab spaced from the primary cab, the remote cab allowing for control of the high-rail vehicle on

railroad tracks, a secondary drive assembly comprising one of a hydraulic motor or an electric motor, a friction roller engaging one of the first set of on road wheel assemblies, the friction roller drivably engaging at least one of the first set of on road wheel assemblies and, the secondary drive assembly operable from the remote cab to move the friction roller and move the high-rail vehicle along the railroad tracks.

Classifications:

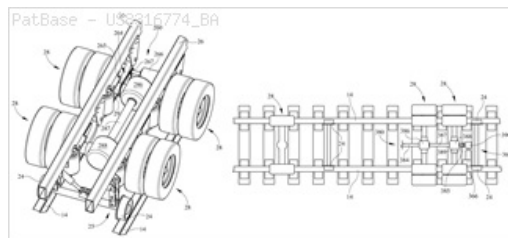
International (IPC 8-9): B61C11/00 B61F1/00

B62D1/24 (Advanced/Invention)

CPC: B60F1/043 B60F2301/04 B61C11/00 B61D15/00

European: B61C11/00 B61D15/00

US: 105/215.2 105/72.2 180/320



Family:

Publication number	Publication date	Application number	Application date
US8316774 BA	20121127	US20090497017	20090702

Priority:

US20090497017 20090702

Probable Assignee: B AND B METALS INC

Assignee(s): (std): B AND B METALS INC ; COOTS WILLIAM R

Inventor(s): (std): COOTS WILLIAM R

Agent(s): MIDDLETON REUTLINGER; JAMES E

18) Family number: 56032719 (US2015250668A)

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Title: WHEELCHAIR EQUIPPED WITH A CRANE HAVING AN EXTENSIBLE MODULE WITH X-SHAPED CROSSES

Abstract: Wheelchairs equipped with a crane, cranes, scaffolding and handling equipment comprising electrically activated extensible structures of articulated trellis, providing large extension relative to retracted length and handling cantilever loads. Crane stabilizers combining the additional functions of wheel axle, crane leveller, vehicle suspension and carrier of counterweight. Electric wheels acting as crane turntable. Electric wheels independently steered with angular actuators and integrated with an assembly of spring suspension, of shock absorber that can be locked to insure crane steadfastness and of linear actuator for levelling. Wheelchair seats with pro file varied by the combination of an electrical linear actuator adjusting the angle of the backrest and the motorized extension of the main frame of the vehicle. Seat covers framed with pressurized tubes made of composite films acting as structural elements, said seat covers also used as mattress and equipped with a removable chamber pot. Fixtures for integration of modules.

Classifications:

International (IPC 8-9): A61G5/04 A61G5/10 A61G7/05 A61G7/10

A61G7/14 B62B3/04 B62B5/00 B62D7/15 B66C23/16 B66C23/72

B66F9/065 E04H12/18 (Advanced/Invention)

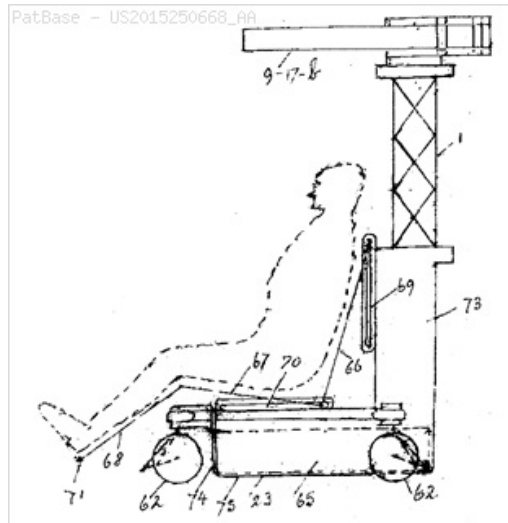
CPC: A61G7/1015 A61G7/1048 A61G7/1076 A61G3/02 A61G5/04

A61G5/10 A61G7/001 A61G7/1017 A61G7/1046 A61G7/1051

A61G7/1067 A61G2203/14 A61G2203/18 B66C23/72 B62D7/15

E04H12/18 B66C23/16 A61G5/1056 A61G7/1019 A61G5/1051

US: 180/411 212/195 212/347 414/543



Family:

Publication number	Publication date	Application number	Application date
CA2790762 AA	20140321	CA20122790762	20120921
CA2801480 AA	20140710	CA20132801480	20130110
CA2885549 AA	20150318	CA20132885549	20130917
EP2897565 A1	20150729	EP20130839847	20130917
EP2897565 A4	20160622	EP20130839847	20130917
US2015250668 AA	20150910	US20130428846	20130917
WO14043784 A1	20140327	WO2013CA00776	20130917

Priority:

CA20122790762 20120921

CA20132801480 20130110

WO2013CA00776 20130917

CA20132885549 20130917

Probable Assignee: 8582106 CANADA LTD

Assignee(s): (std): 8582106 CANADA LTD ; DE LA PLACE MICHEL

Assignee(s): DE LA PLACE MICHEL4892 VICTORIA AVENUEMONTREALQ1H3W 2N1CA
Inventor(s): (std): DE LA PLACE MICHEL
Inventor(s): DE LA PLACE MICHEL4892 VICTORIA AVENUEMONTREALQ1H3W 2N1CA
Agent(s): FINCHAM ERIC; BENOIT AND COTE INC; TISCHNER OLIVER
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 IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

19) Family number: 57482871 (DE102013005918B4)

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Title: LEICHTFAHRZEUG MIT EINEM HYBRIDANTRIEB AUS ELEKTRO- UND MUSKELKRAFTANTRIEB, MIT VIER RAEDERN FUER ZWEI PERSONEN

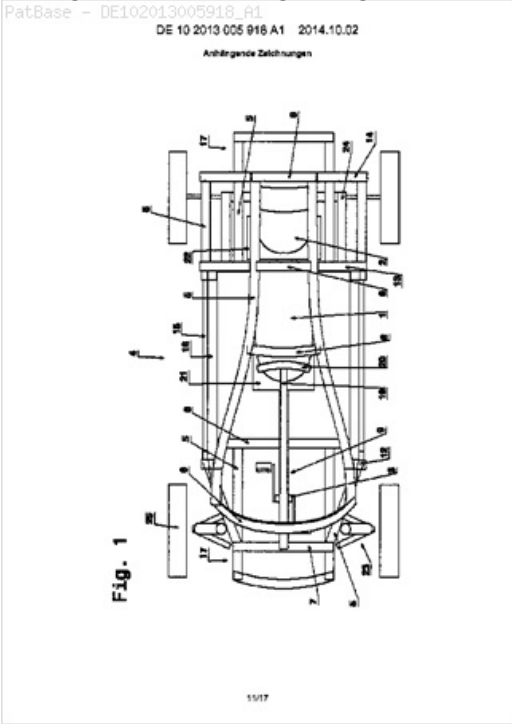
Abstract: Source: DE102013005918B4 [DE] Leichtfahrzeug mit einem Hybridantrieb aus Elektro- und Muskelkraftantrieb, mit vier Raedern (25) fuer zwei Personen, wobei – es einen Fahrersitz (1) und einen Beifahrersitz (2) besitzt, welche hintereinander angeordnet sind, – es einen Trekkurbelsatz (3) besitzt, der sich vor dem Fahrersitz (1) befindet, – die Karosserie eine Sicherheitsfahrgastzelle (4) aufweist, welche den Fahrersitz (1), den Beifahrersitz (2) und den Trekkurbelsatz (3) umschliesst und die aus stabilen Laengstraegern (5), Quertraegern (6) und Saeulen (10) gebildet ist, – ein Seitenaufprallschutz (15) links und rechts in der Karosserie integriert ist, – die Sicherheitsfahrgastzelle (4) A-Saeulen (12), Frontsaehlen (11) und die Frontsaehlen (11) miteinander verbindende Frontquertraeger (7) aufweist, wobei die Frontsaehlen (11) mit den Frontquertraegern (7) die Sicherheitsfahrgastzelle (4) nach vorn abschliessen, und dass es eine Batterie (21) besitzt, welche sich unter dem Fahrersitz (1) befindet, wobei – zwischen der Batterie (21) und dem Seitenaufprallschutz (15) ein freier Raum besteht, in den der Beifahrer seine Beine stellen kann, – dadurch gekennzeichnet, dass – es Crashelemente (17) besitzt, die vorn und hinten an der Sicherheitsfahrgastzelle (4) angebracht und mit den stabilen Laengstraegern (5) verbunden sind; wobei das Leichtfahrzeug zumindest einen Airbag fuer den Fahrersitz (1) besitzt und der Fahrersitz (1) eine Kopfstuetze besitzt, die auf der Rueckseite eine voluminoese Schaumstoffpolsterung aufweist, welche den Kopf des Beifahrers vergleichbar wie ein Airbag verzoeagert abbremst.

Classifications:

International (IPC 8-9): B62D47/00 B62J27/00

B62M6/40 (Advanced/Invention)

CPC: B62D31/003 B62K5/00 B62J17/08 B62J27/00 B62M6/40 B62M6/60



Family:

Publication number	Publication date	Application number	Application date
DE102013005918 A1	20141002	DE201310005918	20130328
DE102013005918 B4	20180329	DE201310005918	20130328

Priority:

DE201310005918 20130328

Probable Assignee: SCHULZE ROBERT

Assignee(s): (std): SCHULZE ROBERT

Inventor(s): (std): SCHULZE ROBERT

20) Family number: 60021646 (US2016214664A)

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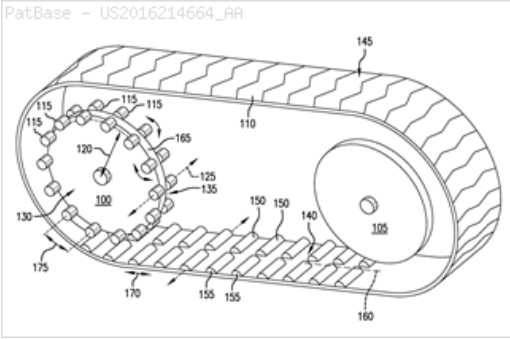
Title: LOW-RESISTANCE SLIP DRIVE OF ENDLESS TRACK

Abstract: Apparatus and associated methods relate to an endless-track drive wheel having axially-projecting roller cogs circumferentially distributed, the cogs configured to engage a lugged inner surface of an endless track at a radial distance from a

wheel axis greater than a wheel radius. In an illustrative embodiment, an exemplary drive wheel may have cogs axially projecting from two opposing faces of the drive wheel. In some embodiments, each cog may include a roller bearing or bushing annularly coupled to a center post. In some embodiments, the cogs on each face may be periodically distributed at a radial distance from the axis of the drive wheel. The endless track may have a series of track lugs projecting from an interior surface. In some embodiments, the track lugs may be periodically arranged along the track to have a pitch corresponding to the pitch of the drive-wheel cogs. In some embodiments, the roller bearings may advantageously provide low-resistance drive coupling to the track.

Classifications:

International (IPC 8-9): B25J9/16 B62D55/12 B62D55/125 B62D55/24 G06N7/00 (Advanced/Invention)
CPC: Y10S901/01 Y10S901/02 G06N7/005 B25J9/163 G05B2219/39376 G05D1/0088 G05D1/0274 G06N3/008
US: 305/165 700/250



Family:

Publication number	Publication date	Application number	Application date
US2016214664 AA	20160728	US20140533701	20141105
US2016332298 AA	20161117	US20160221461	20160727
WO15116273 A1	20150806	WO2014US64098	20141105

Priority:

US20130900256P	20131105	US20140046264P	20140905	US20140050582P	20140915
US20140533701	20141105	US20150198027P	20150728	US20160344281P	20160601
US20160221461	20160727				

Probable Assignee: NPC ROBOTICS CORP

Assignee(s): (std): NPC ROBOTICS CORP

Inventor(s): (std): ALLEN ROBERT ; DAVID JOHN ; DOMHOLT NORM ; GARROD MICHAEL ; JACOBSON TYLER ; THORESON MICHAEL

Agent(s): THOMPSON PATENT LAW OFFICES

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

21) Family number: 61062461 (US2015353150A)

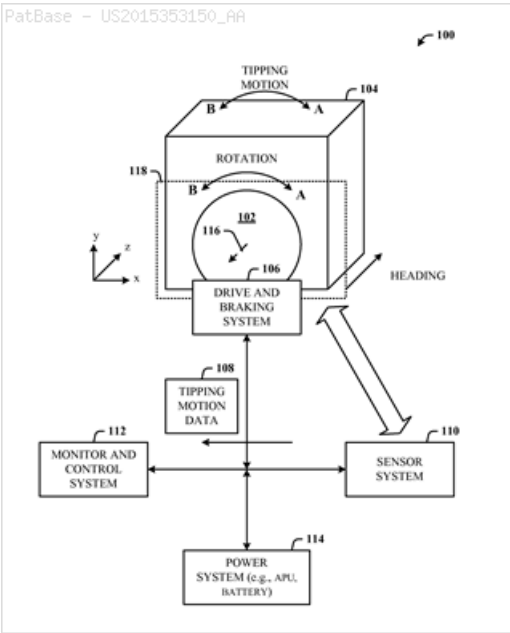
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Title: COUNTER-TORQUE ROLLOVER PREVENTION ARCHITECTURE

Abstract: A rollover prevention architecture for a vehicle comprising a reactive force member mounted on the vehicle, the reactive force member controlled to generate a counter torque relative to the direction of sensed tipping or rollover to mitigate the tipping or rollover of the vehicle while the vehicle is moving.

Classifications:

International (IPC 8-9): B60R21/13 B62D37/04 B62D53/08 (Advanced/Invention)
CPC: B62D37/04 B60G2400/0511 B60R21/13 B62D53/0871
US: 280/755



Family:

Publication number	Publication date	Application number	Application date
■ US2015353150 AA	20151210	US20150732628	20150605
■ US9718503 BB	20170801	US20150732628	20150605

Priority:

US20140008928P 20140606 US20150732628 20150605

Probable Assignee: SECAUR JONATHAN MARK

Assignee(s): (std): SECAUR JONATHAN MARK ; URSICH GAVIN

Inventor(s): (std): SECAUR JONATHAN MARK ; URSICH GAVIN

Agent(s): ERIC D

22) Family number: 66793151 (CO20170007179A)

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Title: AUTOBUSES Y AUTOCARES AUTOPORTANTES RESISTENTES AL VUELCO Buses and coaches self-supporting resistant to tipping (Machine translation)

Classifications:

International (IPC 8-9): B62D21/00 B62D31/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
■ CO20170007179 A1	20170818	CO20170007179	20170717

Priority:

CO20170007179 20170717

Probable Assignee: ARMANDO GUTIERREZ ACEVEDO

Assignee(s): ARMANDO GUTIERREZ ACEVEDO

Inventor(s): ARMANDO GUTIERREZ ACEVEDO