

Search history

Search INV=(NATHAN ELLEMENT) (Results 1)

1:

Search DEVICE AND ACCESS AND SYSTEM AND EARTH AND MOVER (Results 38)

2:

Search IC8= (B60R3/02) (Results 2766)

3:

Search (DEVICE AND STAIRS AND ABATIBLE AND (YELLOW AND MACHINERY)) (Results 0)

4:

Search (DEVICE AND STAIRS AND ABATIBLE AND YELLOW AND MACHINERY) (Results 0)

5:

Search [SP]: [0047] figs. 1a to 5a are progressive illustrations showing front view of an access system according to one embodiment of the present invention being moved from a deployed position to a retracted position.[0048] figs. 1b to 5b are progressive illustrations showing side view of an access system according to one embodiment of the present invention being moved from a deployed position to a retracted position. figs. 1b to 5b correspond to the progressions of the access system of fig. 1a to 5a.[0049] fig. 1c to 5c are also progressive illustrations showing a retraction mechanism of an access system according to one embodiment of the present invention. figs. 1c to 5c correspond to the progressions of the access system of figs. 1a to 5a.[0050] fig. 4d is an enlarged view of detail x of fig. 4a.[0051] fig. 5d is an enlarged view of detail y of fig. 5a.[0052] fig. 6a illustrates a linkage element in a contracted state according to one embodiment of the present invention.[0053] fig. 6b illustrates linkage element of fig. 6a in an extended state.[0054] fig. 7a illustrates an access system in a deployed position attached to an earth moving equipment according to one embodiment of the present invention.[0055] fig. 7b illustrates an access system in a retracted position attached to an earth moving equipment according to one embodiment of the present invention. (Results -1)

Search fn=(53522530 or 32792686) (Results 2)

7:

Search fn=(59004240:215 or 53522530:105 or 32792686:105 or 49461345:100 or 34542199:100 or 11100931:100 or 66269695:90 or 62457807:90 or 62079921:90 or 30242210:90 or 15845640:90 or 44983697:85 or 8626015:85 or 58499225:80 or 43539756:80 or 28287043:80 or 4839956:80 or 56665975:75 or 34022312:75 or 11163083:75 or 3797498:75 or 64549721:70 or 64042379:70 or 60271724:70 or 59938103:70 or 58581308:70 or 56479842:70 or 52323603:70 or 50431592:70 or 49461169:70 or 44049108:70 or 32219804:70 or 31846604:70 or 8817770:70 or 3510281:70 or 1514005:70 or 57789179:65 or 30786737:65 or 30690842:65 or 28189001:65 or 13008432:65 or 11987380:65 or 11943409:65 or 4755721:65 or 65758828:60 or 65758826:60 or 65599341:60 or 65190340:60 or 64616718:60 or 64282773:60 or 64044833:60 or 63358122:60 or 63295359:60 or 62822339:60 or 62457199:60 or 61255827:60 or 59686032:60 or 59574763:60 or 59283570:60 or 58901254:60 or 57710380:60 or 57567290:60 or 57263269:60 or 56479769:60 or 56260493:60 or 56137687:60 or 56090036:60 or 55758414:60 or 55303439:60 or 53549522:60 or 53122709:60 or 52690773:60 or 52389715:60 or 52378274:60 or 51692170:60 or 50816683:60 or 50431591:60 or 49899793:60 or 49091253:60 or 44962671:60 or 44882743:60 or 43125572:60 or 41440679:60 or 40962709:60 or 33180093:60 or 32564551:60 or 32392923:60 or 32290603:60 or 32274423:60 or 30043639:60 or 30037045:60 or 29171978:60 or 28469118:60 or 28314151:60 or 24153445:60 or 23504293:60 or 23432101:60 or 23356040:60 or 20726334:60 or 20648316:60) (Results 100)

Search fn=(58901254 or 52002667 or 57974141 or 51692170 or 43844230 or 51692170 or 53549522 or 44882743 or 55311405 or 53549522 or 53522530 or 55119760 or 49640555 or 53522530 or 66074609 or 44882743 or 50816683 or 53522530 or 55973163 or 58901254 or 57789179 or 53522530 or 51692170 or 58901254 or 30272646 or 30272646 or 44414492 or 44414492 or 31279279 or 40739336 or 40739336 or 40739336 or 29537211 or 29906830 or 29906830 or 32792686 or 44882743 or 46843112 or 21793266 or 21910912 or 22762407 or 932216 or 978652 or 1000892 or 1000892 or 1554453 or 1554453 or 30242210 or 1717290 or 11163083 or 11100929 or 11100929 or 11100931 or 11100931 or 15730071 or 34547907 or 32803658) (Results 38)

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Search fn=(41570690 or 3274423 or 34035453 or 34433995 or 41730465 or 41730465 or 41770500 or 42854490 or 34022312 or 33892471 or 44927519 or 43270077 or 42119353 or 44983697 or 58629068 or 60266948 or 29381670 or 15005730 or 29967204 or 23504292 or 28189001 or 29084017 or 29771002 or 34035453 or 42854490 or 41730465 or 41770500 or 43270077 or 42119353 or 44983697 or 55973163 or 34022312 or 59938103 or 58629068 or 62989349 or 60266948 or 34022312 or 34035453 or 26100006 or 20120295 or 966493 or 1126281 or 6681152 or 27445243 or 30242210 or 27141125) (Results 33)

Search pN=(US5988316 or US2005247517 or US5033582 or US5064022 or US5813494 or US2009065301 OR US2013092474 OR US5988316 OR US2005247517 OR US5033582 OR US5064022 OR US5813494 OR US2009065301 OR US3190392 OR US2003230867 OR US2011140389 OR US2013008743 OR JP57037042 OR US2013048400) (Results 16)

Search 3 AND 9 (Results 17)

15:

Search 3 AND 8 (Results 67)

16:

Search 14 OR 16 (Results 78)

17:

Search 14 OR 15 (Results 32)

18:

Search 3 AND 10 (Results 14)

19:

Search 3 OR 12 (Results 2798)

20:

Search 3 AND 12 (Results 12)

21:

Search 19 AND 18 (Results 5)

22:

Title: FOLDING LADDER FOR COMBINES

Abstract: Source: GB1046891A 1,046,891. Combine-harvesters. MASSEY-FERGUSON Ltd. Jan. 27, 1964 [Jan. 31, 1963], No. 3448/64. Heading A1F. In a combine harvester having an elevated operator's platform 20 with an access opening 29 thereto, a ladder 30 is pivoted to the platform about an axis inclined to the platform so as to be movable from an access position (Fig. 3) in which it extends downwardly from the opening and a storage position (Fig. 2) in which it adopts a horizontal attitude alongside the body 10. The axis is defined by pivots 37, 36 on the upper ends of the side rails 33, 34 of the ladder which is provided with integral rungs 32 and a handle 38 for manipulating it between positions. The ladder is held in its storage position by a pin 42 engaging lugs 41 on the guard-rail 26 of the platform. When the ladder is stowed, the longer side rail 33 extends horizontally across the access opening to complete the guard-rail structure.

Classifications:

International (IPC 8-9): A01D41/12 (Advanced/Invention);
A01D41/00 (Core/Invention)

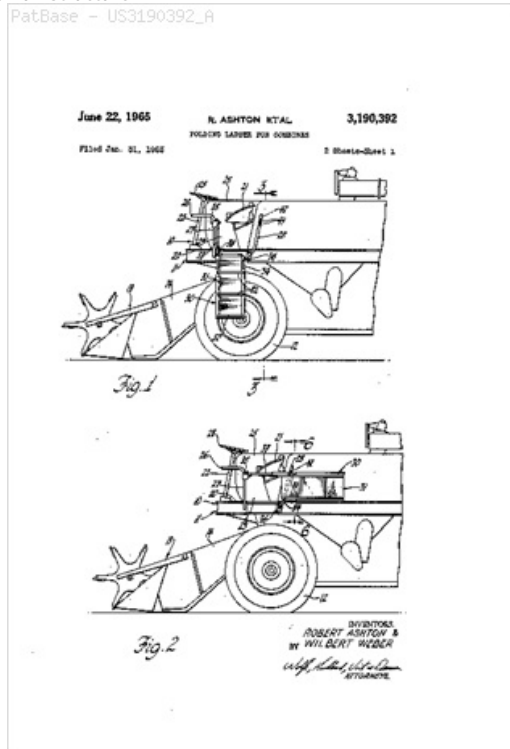
International (IPC 1-7): A01D41/02 A01D41/12

CPC: A01D41/1261

European: A01D41/12L

US: 182/97

PatBase - US3190392_A



Family:

Publication number	Publication date	Application number	Application date
GB1046891 A	19661026	GB19640003448	19640127
US3190392 A	19650622	US19630255234	19630131

Priority:

US19630255234 19630131

Probable Assignee:

MASSEY FERGUSON LTD

Assignee(s): (std):

MASSEY FERGUSON LTD

Assignee(s):

MASSEY FERGUSON LIMITED

Inventor(s): (std):

ROBERT ASHTON ; WILBERT WEBER

Inventor(s):

ASHTON ROBERT ; WEBER WILBERT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB1046891 A	19661026	LSGT	+	granted / extensions (spc, cpc, pte)	
US3190392 A	19650622	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: ACCESS LADDER FOR COMBINES

Abstract: Source: GB1085847A 1,085,847. Combine harvesters. MASSEYFERGUSON Ltd. Jan. 28, 1965 [Feb. 18, 1964], No. 3867/65. Heading A1F. [Also in Division B7] A combine harvester having an elevated operator's platform 20 is provided with an access ladder 30 pivotally mounted at 37 on a depending post is movable by means of a lever 58 and link 62 from the inoperative position shown in which the lever 58 obstructs the access opening 29 to an operative position at the side of the harvester. A foot-operated latch 72 secures the ladder in its extreme positions.

Classifications:

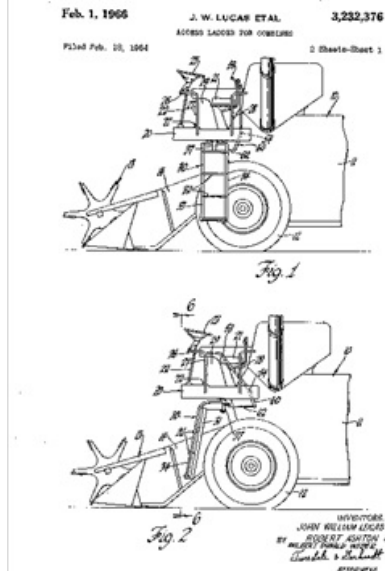
International (IPC 8-9): A01D41/12 B60R3/02 (Advanced/Invention); A01D41/00 B60R3/00 (Core/Invention)

CPC: A01D67/00 B60R3/02 A01D41/1261

European: A01D41/12L B60R3/02

US: 182/113 182/129 182/97

PatBase - US3232376_A



Family:

Publication number	Publication date	Application number	Application date
DE1580314 A1	19700319	DE19651580314	19650208
GB1085847 A	19671004	GB19650003867	19650128
US3232376 A	19660201	US19640345656	19640218

Priority:

US19640345656 19640218

Probable Assignee: CANADA MASSEY FERGUSON LTD

Assignee(s): (std): CANADA MASSEY FERGUSON LTD ; MASSEY FERGUSON LTD

Assignee(s): CANADA MASSEY FERGUSON LIMITED ; MASSEY FERGUSON LIMITED

Inventor(s): (std): ASHTON ROBERT ; DONALD WEBER WILBERT ; ROBERT ASHTON ; WILLIAM LUCAS JOHN ; WILLIAMS LUCAS JOHN

Inventor(s): WEBER WILBERT DONALD ; LUCAS JOHN WILLIAM

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE1580314 A1	19700319	LSPB	+	published / reissued	
GB1085847 A	19671004	LSGT	+	granted / extensions (spc, cpc, pte)	
US3232376 A	19660201	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: VEHICLE ACCESS LADDER

Abstract: Source: US3656578A An access ladder for the elevated operator's platform of a vehicle, the ladder being swingably mounted on the platform for movement between a first position wherein the ladder extends vertically downwardly from the access side of the platform, and a second position wherein the ladder extends horizontally across the access side of the platform and serves as a guard rail therefor. A latch mechanism on the platform retains the ladder in either position.

Classifications:

International (IPC 8-9): A01D41/12 B60R3/02 (Advanced/Invention);
A01D41/00 B60R3/00 (Core/Invention)

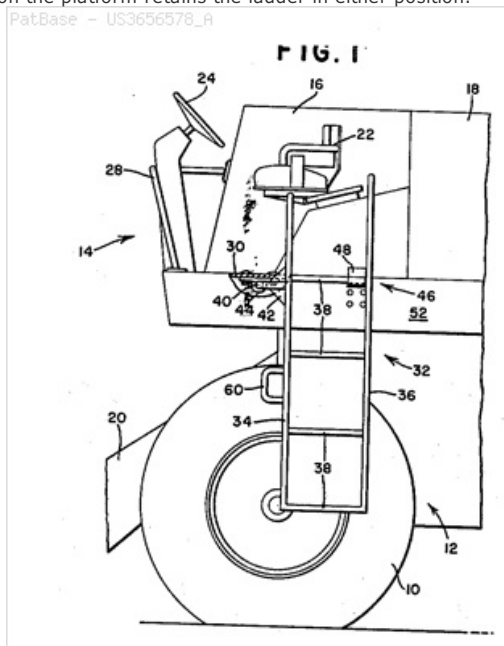
International (IPC 1-7): E06C5/02 E06C5/04

CPC: A01D41/1261 B60R3/02 E02F9/0833

European: A01D41/12L B60R3/02 E02F9/08B

US: 182/115 182/20 182/97

PatBase - US3656578_A



Family:

Publication number	Publication date	Application number	Application date
CA934788 A1	19731002	CA19710114526	19710601
US3656578 A	19720418	US19700086111	19701102

Priority:

US19700086111 19701102

Probable Assignee: DEERE AND CO

Assignee(s): (std): DEERE AND CO

Assignee(s): PETER C HEMKEN

Inventor(s): (std): HEMKEN P ; HEMKEN PETER CHAUNCEY

Inventor(s): PETER C HEMKEN ; PETER CHAUNCEY HEMKEN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA934788 A1	19731002	LSPB	+	published / reissued	
US3656578 A	19720418	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Step-grab element system for a vehicle

Abstract: Source: US3997183A A step-grab element system is provided for ascending to or descending from an elevated position on a vehicle. A step and a grab element are each pivotally connected to the vehicle and are connected to one another for moving the step between an operable position and an inoperable, protected position in response to moving the grab element between an operable position and an inoperable, protected position.

Classifications:

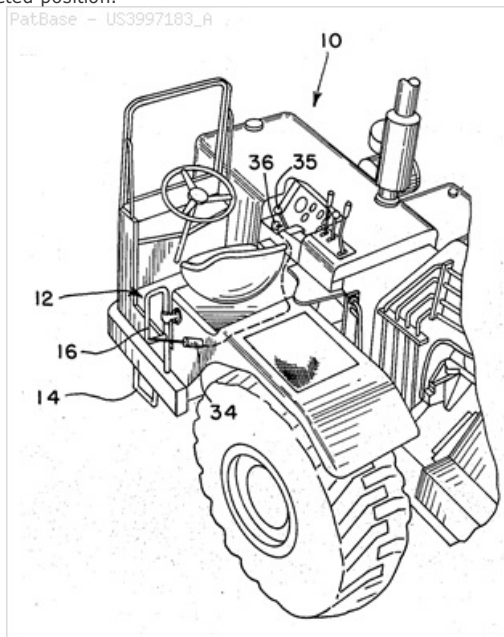
International (IPC 8-9): B60R3/00 B60R3/02 B62D25/22 E02F9/16 (Advanced/Invention); B60R3/00 B62D25/00 E02F9/16 (Core/Invention)

International (IPC 1-7): B60R3/00 B60R3/02 B62D25/22

CPC: B60R3/02 E02F9/0833 E02F9/166

European: B60R3/02 E02F9/08B E02F9/16M

US: 105/444 182/106 182/97 280/166



Family:

Publication number	Publication date	Application number	Application date
BE845648 A2	19770228	BE19761007592	19760830
BR7605017 A	19770809	BR19760005017	19760730
CA1046556 A1	19790116	CA19760249777	19760407
GB1486387 A	19770921	GB19760013933	19760406
JP52039223 A2	19770326	JP19760105873	19760906
US3997183 A	19761214	US19750615650	19750922

Priority:

US19750615650 19750922

Probable Assignee: CATERPILLAR INC A CORP OF DE

Assignee(s): (std): CATERPILLAR TRACTOR CO

Assignee(s): RUSSEY JAMES W ; CATERPILLAR INC ; CATERPILLAR INC A CORP OF DE

Inventor(s): (std): JIEMUSU UIRIAMU RATSUSEI ; RUSSEY J ; RUSSEY JAMES W

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BE845648 A2	19770228	LSPB	+	published / reissued	
BR7605017 A	19770809	LSPB	+	published / reissued	
CA1046556 A1	19790116	LSPB	+	published / reissued	
GB1486387 A	19770921	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1486387 A	19780201	LSGT	+PS	PATENT SEALED	
GB1486387 A	19821103	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	
JP52039223 A2	19770326	LSPB	+	published / reissued	
US3997183 A	19761214	LSGT	+	granted / extensions (spc, cpc, pte)	

US3997183 A	19860612	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR INC., 100 N.E. ADAMS STREET, PEORIA, I DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CATERPILLAR TRACTOR CO., A CORP. OF CALIF.; REEL/FRAME:004669/0905 EFFECTIVE DATE : 19860515
US3997183 A	19860612	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR INC., A CORP. OF DE.,ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CATERPILLAR TRACTOR CO., A CORP. OF CALIF.; REEL/FRAME:004669/0905 EFFECTIVE DATE : 19860515

Title: METHOD OF CONNECTING LIGHTTTTRANSMITTING FIBERS

Abstract: Source: JP52042738A PURPOSE:To heighten the quality of the junction of optical fibers; this being accomplished by exposing fibers cores, and inserting said into a thermally shrinking plastic tube into which a semicylindrical sleeve has been inserted.

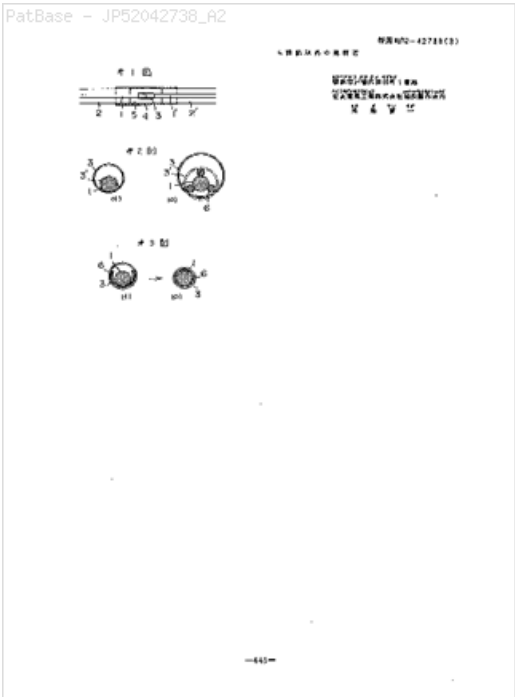
Classifications:

International (ipc 8-9): G02B6/24 G02B6/38 (Advanced/Invention);
G02B6/24 G02B6/38 (Core/Invention)

International (ipc 1-7): G02B5/14 G02B7/26 H01P3/00

CPC: G02B6/2558

European: G02B6/255R



Family:

Publication number	Publication date	Application number	Application date
JP1144405 C3	19830426	JP19750118668	19751001
JP52042738 A2	19770402	JP19750118668	19751001
JP57037042 B4	19820807	JP19750118668	19751001

Priority:

JP19750118668 19751001

Probable Assignee: SUMITOMO ELECTRIC IND

Assignee(s): (std): SUMITOMO ELECTRIC IND ; SUMITOMO ELECTRIC INDUSTRIES

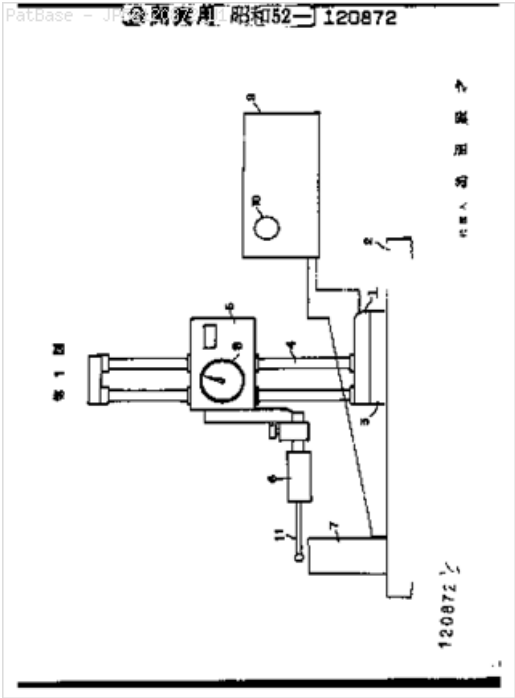
Inventor(s): (std): YONECHI SHINICHI ; SAITOU YASUKI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
JP1144405 C3	19830426	LSGT	+	granted / extensions (spc, cpc, pte)	
JP52042738 A2	19770402	LSPB	+	published / reissued	
JP57037042 B4	19820807	LSPB	+	published / reissued	

Classifications:
International (IPC 8-9): G01B21/00 G01B5/00
G01B7/00 (Advanced/Invention)
International (IPC 1-7): G01B5/00 G01B7/00



Family:

Publication number	Publication date	Application number	Application date
JP52120872 U1	19770913	JP19760029512U	19760311
JP57037042 Y2	19820816	JP19760029512U	19760311

Priority:

JP19760029512U 19760311

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
JP52120872 U1	19770913	LSPB	+	published / reissued	
JP57037042 Y2	19820816	LSPB	+	published / reissued	

Title: Retractable service ladder

Abstract: Source: US4131293A A stowable ladder for use on a combine is provided with a spring assisted overcentering linkage that will maintain the foldable ladder in either a deployed status or closed status until significant manual effort overcoming the spring loaded overcentering linkage is induced.

Classifications:

International (IPC 8-9): B60R3/02 (Advanced/Invention);

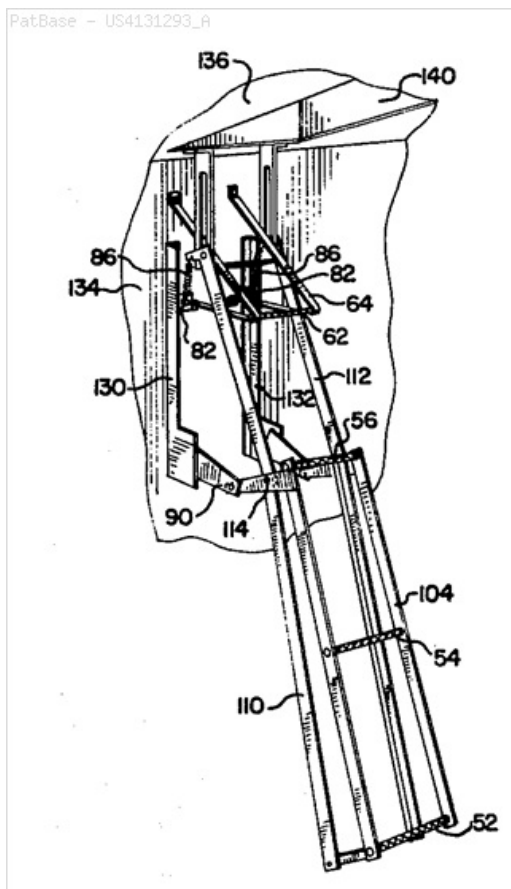
B60R3/00 (Core/Invention)

International (IPC 1-7): B60R3/02 B62D25/22 E06C5/04 E06C5/22

CPC: A01D41/1261 B60R3/02

European: A01D41/12L B60R3/02

US: 280/166



Family:

Publication number	Publication date	Application number	Application date
AU197840664 A1	19800417	AU19780040664	19781012
AU518886 B2	19811022	AU19780040664	19781012
GB2006310 A1	19790502	GB19780039810	19781009
GB2006310 B2	19820407	GB19780039810	19781009
US4131293 A	19781226	US19770842446	19771014

Priority:

US19770842446 19771014

Probable Assignee: CASE CORP

Assignee(s): (std): INT HARVESTER CO

Assignee(s): INTERNATIONAL HARVESTER CO ; INTERNATIONAL HARVESTER COMPANY ; JI CASE CO ; JI CASE CO A DE CORP ; CASE A CORP OF DELAWARE CORP ; CASE CORP ; CASE EQUIPMENT CORP

Inventor(s): (std): KINDLE J J ; KINDLE JOHN J

Inventor(s): J J KINDLE ; JOHN J KINDLE

Agent(s): WM

Legal status (INPADOC)

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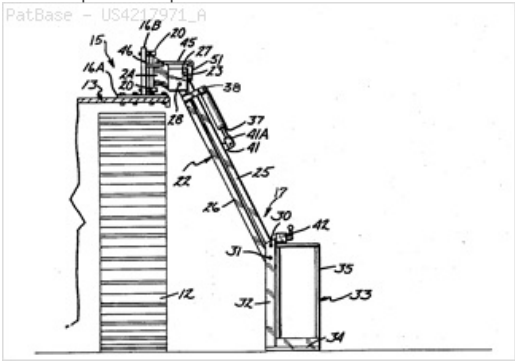
Patent	Date recorded	Event group	Code	Event	Details
AU197840664 A1	19800417	LSPB	+	published / reissued	
AU518886 B2	19811022	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2006310 A1	19790502	LSPB	+	published / reissued	
GB2006310 A1	19820407	LSGT	+PG	PATENT GRANTED	
GB2006310 A1	19830511	LSLE	-PCNP	PATENT CEASED THROUGH	

				NON-PAYMENT OF RENEWAL FEE	
GB2006310 B2	19820407	LSGT	+	granted / extensions (spc, cpc, pte)	
US4131293 A	19781226	LSGT	+	granted / extensions (spc, cpc, pte)	
US4131293 A	19850213	LSAS	AS	ASSIGNMENT	OWNER NAME : J.I. CASE COMPANY A DE CORP DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:INTERNATIONAL HARVESTER COMPANY A DE CORP; REEL/FRAME:004379/0536 EFFECTIVE DATE : 19850131
US4131293 A	19910520	LSAS	AS	ASSIGNMENT	OWNER NAME : CASE CORPORATION, A CORP. OF DELAWARE DESCRIPTION : CHANGE OF NAME; ASSIGNOR:J. I. CASE COMPANY, A CORP. OF DELAWARE; REEL/FRAME:005741/0138 EFFECTIVE DATE : 19891229
US4131293 A	19940912	LSAS	AS	ASSIGNMENT	OWNER NAME : CASE EQUIPMENT CORPORATION, WISCONSIN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CASE CORPORATION; REEL/FRAME:007125/0717 EFFECTIVE DATE : 19940623
US4131293 A	19940919	LSAS	AS	ASSIGNMENT	OWNER NAME : CASE CORPORATION, WISCONSIN DESCRIPTION : CHANGE OF NAME; ASSIGNOR:CASE EQUIPMENT CORPORATION; REEL/FRAME:007132/0468 EFFECTIVE DATE : 19940701

Title: Rotating powered step

Abstract: Source: US4217971A A powered step for use with large construction equipment such as large crawler-type tractors, mining trucks and similar vehicles that have an operator's platform located a substantial distance off the ground, and which require storage of any ladder or step within the frame perimeter and above the operator's platform to avoid damage to the step during use. The operator step, as shown, comprises a step member or operator basket mounted on a parallel linkage that is hydraulically operated, for raising and lowering. The step support surface of course remains oriented in space (horizontal), as it is raised and lowered with respect to a horizontal plane. The step includes a mounting means that automatically rotates the step member about ninety degrees between its lowered position and its raised position so that the step movement starts adjacent the side of the machine, and at the end of its raising stroke the step is positioned parallel to the longitudinal axis of the vehicle and within the frame perimeter above the operator's platform.

Classifications:
International (IPC 8-9): B60R3/02 (Advanced/Invention);
B60R3/00 (Core/Invention)
International (IPC 1-7): B60R3/02
CPC: B60R3/02
European: B60R3/02
US: 182/2 182/2.7 182/91 280/166



Family:

Publication number	Publication date	Application number	Application date
CA1126175 A1	19820622	CA19800345779	19800215
US4217971 A	19800819	US19790012956	19790216

Priority:

CA19800345779 19800215 US19790012956 19790216

Probable Assignee: CAMERON DEBORA
Assignee(s): (std): RIVINIUS THEODORE
Assignee(s): CAMERON DEBORA ; RIVINIUS RODNEY A
Inventor(s): (std): RIVINIUS THEODORE
Agent(s): MARKS AND CLERK

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA1126175 A1	19820622	LSPB	+	published / reissued	
CA1126175 A1	19990622	LSLE	-MKEX	EXPIRY	
US4217971 A	19800819	LSGT	+	granted / extensions (spc, cpc, pte)	
US4217971 A	19800819	LSGT	PAT1	Patented Case	
US4217971 A	19951005	LSAS	AS	ASSIGNMENT	OWNER NAME : CAMERON, DEBORA, IOWA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:RIVINIUS, RODNEY A., EXECUTOR FOR THEODORE RIVINIUS; REEL/FRAME:007656/0155 EFFECTIVE DATE : 19950329
US4217971 A	19951005	LSAS	AS	ASSIGNMENT	OWNER NAME : RIVINIUS, RODNEY A., ARIZONA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:RIVINIUS, RODNEY A., EXECUTOR FOR THEODORE RIVINIUS; REEL/FRAME:007656/0155 EFFECTIVE DATE : 19950329

Title: Retractable boarding ladder

Abstract: Source: US4243120A A boarding stairway moves relative to fixed structure in front of it between a raised retracted position and a lowered operative position. Rollers at the top of the stairway are guided in a fixed track that is straight and vertical along most of its length from its top but curves into a short downwardly-rearwardly inclined bottom section. The stringers of the stairway rest against a roller rotatable on a fixed horizontal axis that is below and to the rear of the track; hence the bottom of the stairway swings rearward as it moves down. A counterweight that moves vertically is connected with the stairway by a cable that has a vertical front stretch extending up from the counterweight to a cable guide above the stairway and a rear oblique stretch extending down from the guide to a connection on the stairway that is spaced below its top. As the stairway moves up and down, the inclination of the rear cable stretch so changes that the stairway can be manually started from each position towards the other and moves to the destination position by momentum, coming to a gradual stop at the destination position.

Classifications:

International (IPC 8-9): B60R3/00 B60R3/02 B63B27/00 B63B27/14 B63B29/20 E02F9/16 E06C5/00 E06C5/02

E06C5/24 (Advanced/Invention);

B60R3/00 B63B27/00 E02F9/16 E06C5/00 (Core/Invention)

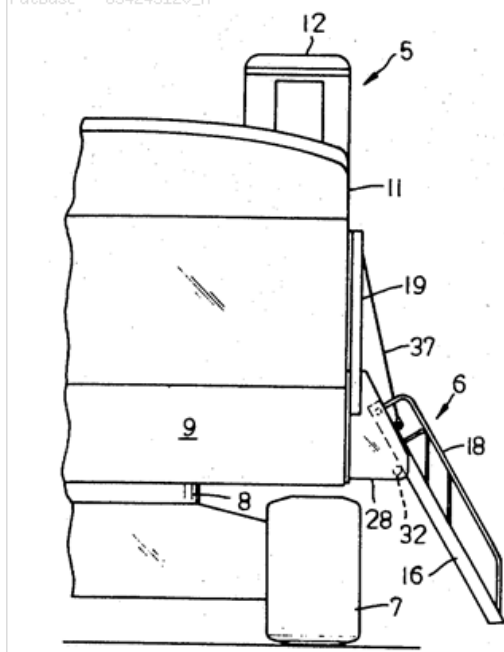
International (IPC 1-7): B60R3/00 B60R3/02 B63B27/00 B63B29/20 B64C1/24 E04F E06C1/397 E06C5/00 E06C5/04 E06C5/16 E06C5/20 E06C7/04 E06C9/08

CPC: B60R3/02 B63B27/14 E02F9/0833 E06C5/02

European: B60R3/02 B63B27/14 E02F9/08B E06C5/02

US: 182/127 182/98

PatBase - US4243120_A



Family:

Publication number	Publication date	Application number	Application date
AU198059265 A1	19810108	AU19800059265	19800612
AU526784 B2	19830127	AU19800059265	19800612
BR8003927 A	19810113	BR19800003927	19800624
CA1114789 A1	19811222	CA19800352781	19800527
DE3023179 A1	19810129	DE19803023179	19800620
DE3023179 C2	19890706	DE19803023179	19800620
JP1753499 Y	19890529	JP19860052908U	19800627
JP56008730 A2	19810129	JP19800086716	19800627
JP61183745 U1	19861115	JP19860052908U	19800627
JP63018278 Y2	19880523	JP19860052908U	19860410
MX152663 A	19851007	MX19800182857	19800620
US4243120 A	19810106	US19790052800	19790628
ZA8003472 A	19810624	ZA19800003472	19800611

Priority:

CA19800352781 19800527 JP19860052908U 19860410 US19790052800 19790628

Probable Assignee: HARNISCHFEGER TECHNOLOGIES INC

Assignee(s): (std): HARNISCHFEGER CORP

Assignee(s): HARNISCHFEGER CORP WEST MILWAUKEE WIS US ; HARNISCHFEGER TECHNOLOGIES INC ; HOLZ JOHN F ; PRATT DEXTER JR

Inventor(s): (std): D PRATT ; DEKUSUTAA PURATSUTO JIYUNIA ; DEXTER PRATT ; DEXTER PRATT JR ; HOLZ J ; HOLZ J F ; HOLZ JOHN F ; JF HOLZ ; JIYON EFU HORUTSU ; JOHN F HOLZ ; JOHN P HOLZ ; PRATT D ; PRATT D JR ; PRATT DEXTER ; PRATT DEXTER JR ; HOLZ JOHN P ; PRATT JR DEXTER ; PRATT JUN DEXTER

Inventor(s): J F HOLZ ; PRATT DEXTER WAUKESHA WIS ; PRATT DEXTER WAUKESHA WIS US ; JUN ; JUN DEXTER PRATT ; HOLZ JOHN F MILWAUKEE WIS US ; F HOLZ JOHN

Agent(s): SMART AND BIGGAR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU198059265 A1	19810108	LSPB	+	published / reissued	
AU526784 B2	19830127	LSGT	+	granted / extensions	

BR8003927 A	19810113	LSPB	+	(spc, cpc, pte) published / reissued	
BR8003927 A	19950912	LSLE	-MK	PATENT EXPIRED	EFFECTIVE DATE : 19950624
CA1114789 A1	19811222	LSPB	+	published / reissued	
CA1114789 A1	19981222	LSLE	-MKEX	EXPIRY	
DE3023179 A1	19810129	LSPB	+	published / reissued	
DE3023179 A1	19860619	LSES	+8110	REQUEST FOR EXAMINATION PARAGRAPH 44	
DE3023179 A1	19890706	LSGT	+D2	GRANT AFTER EXAMINATION	
DE3023179 A1	19900104	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE3023179 A1	19950608	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE3023179 C2	19890706	LSGT	+	granted / extensions (spc, cpc, pte)	
JP56008730 A2	19810129	LSPB	+	published / reissued	
JP61183745 U1	19861115	LSPB	+	published / reissued	
JP63018278 Y2	19880523	LSPB	+	published / reissued	
MX152663 A	19851007	LSGT	+	granted / extensions (spc, cpc, pte)	
US4243120 A	19810106	LSGT	+	granted / extensions (spc, cpc, pte)	
US4243120 A	19800930	LSGT	PAT1	Patented Case	
US4243120 A	19980507	LSAS	AS	ASSIGNMENT	OWNER NAME : HARNISCHFEGGER TECHNOLOGIES, INC., DELAWARE DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HARNISCHFEGGER CORPORATION; REEL/FRAME:009168/0359 EFFECTIVE DATE : 19980504
ZA8003472 A	19810624	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Vehicle access ladder

Abstract: Source: US4245716A The instant disclosure is directed to an access ladder for the elevated operator's platform of a vehicle, the ladder being pivotable in two planes between operative and inoperative positions about two separate axes. Counterbalance means interconnecting the ladder and the platform assist pivotal movement in the first plane. A biased locking mechanism releasably holds the ladder in the operable position relative to the second plane.

Classifications:

International (IPC 8-9): A01D41/12 B60R27/00
B60R3/02 (Advanced/Invention);

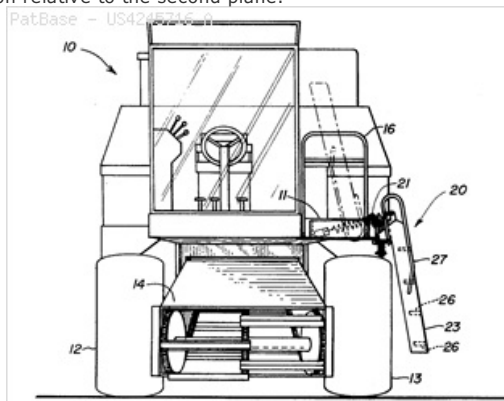
A01D41/00 B60R3/00 (Core/Invention)

International (IPC 1-7): B60R27/00 B60R3/00 E06C5/22

CPC: A01D41/1261 B60R3/02 E02F9/0833

European: A01D41/12L B60R3/02 E02F9/08B

US: 182/127 182/86 182/89 182/98 280/166



Family:

Publication number	Publication date	Application number	Application date
CA1147376 A1	19830531	CA19800353284	19800603
US4245716 A	19810120	US19790058392	19790717

Priority:

CA19800353284 19800603 US19790058392 19790717

Probable Assignee: BLUE LEAF IP INC

Assignee(s): (std): SPERRY CORP

Assignee(s): BLUE LEAF IP ; BLUE LEAF IP INC ; FORD NEW HOLLAND INC ; FORD NEW HOLLAND INC A CORP OF DE ; NEW HOLLAND INC ; RAYFIELD JAMES F

Inventor(s): (std): RAYFIELD JAMES F

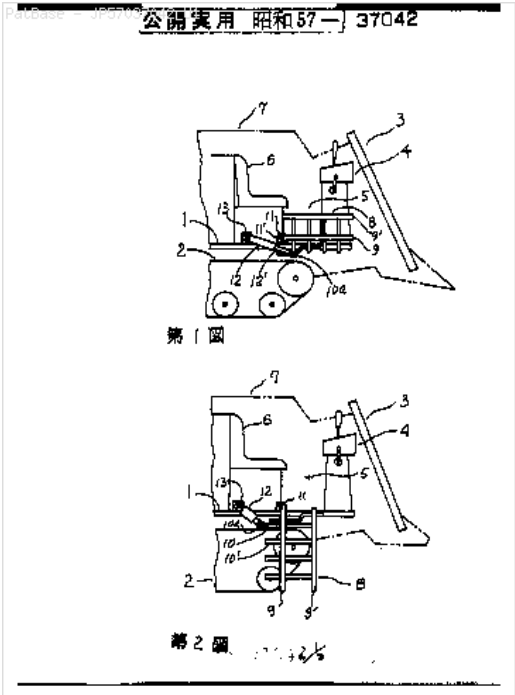
Agent(s): GOWLING LAFLEUR HENDERSON LLP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA1147376 A1	19830531	LSPB	+	published / reissued	
CA1147376 A1	20000531	LSLE	-MKEX	EXPIRY	
US4245716 A	19810120	LSGT	+	granted / extensions (spc, cpc, pte)	
US4245716 A	19801103	LSGT	PAT1	Patented Case	
US4245716 A	19861117	LSAS	AS	ASSIGNMENT	OWNER NAME : NEW HOLLAND INC., 500 DILLER AVENUE, NEW HOLLAND, PENNSYLVAN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST. SUBJECT TO CONDITIONS OF AGREEMENT RECITED; ASSIGNOR:SPERRY RAND CORPORATION; REEL/FRAME:004623/0904 EFFECTIVE DATE : 19860327
US4245716 A	19880425	LSAS	AS	ASSIGNMENT	OWNER NAME : FORD NEW HOLLAND, INC., A CORP. OF DE., PENNSYLVAN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEW HOLLAND INC., A CORP. OF DE.; REEL/FRAME:004879/0501 EFFECTIVE DATE : 19871222
US4245716 A	19880425	LSAS	AS	ASSIGNMENT	OWNER NAME : FORD NEW HOLLAND, INC., 500 DILLER AVENUE, NEW HOL DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:NEW HOLLAND INC., A CORP. OF DE.; REEL/FRAME:004879/0501 EFFECTIVE DATE : 19871222
US4245716 A	19950327	LSAS	AS	ASSIGNMENT	OWNER NAME : BLUE LEAF I.P., INC., DELAWARE DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:FORD

Classifications:
International (IPC 8-9): A01D41/00 A01D41/02
B60R3/00 (Advanced/Invention);
A01D41/00 B60R3/00 (Core/Invention)
International (IPC 1-7): A01D41/00 B60R3/00



Family:

Publication number	Publication date	Application number	Application date
JP57037042 U1	19820226	JP19800112687U	19800811

Priority:
JP19800112687U 19800811

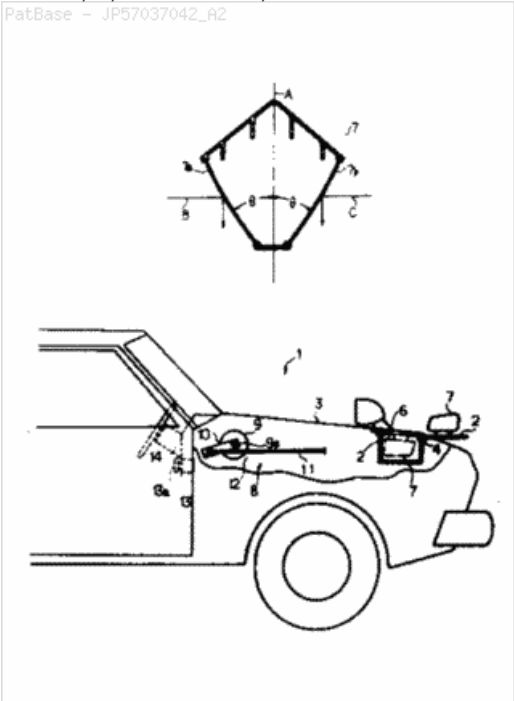
Legal status (INPADOC)
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Patent	Date recorded	Event group	Code	Event	Details
JP57037042 U1	19820226	LSPB	+	published / reissued	

Title: SIDE VIEWER FOR CAR

Abstract: Source: JP57037042A PURPOSE:To facilitate safety recognition at right and left on going into a road by installing the mirror body which can be turned in reciprocating movement between the projection position and the store position. CONSTITUTION:When a mirror body 7 is unnecessary, the mirror body 7 is turned to the store position in a storing concave 6, and thus obstruction for visual field and generation of wind cutting sound on travelling are prevented. On going into a road from the place having poor visibility at right and left, an operator 13a is operated, and the mirror body 7 is turned to the projection position. In this state, the sight at the right and left of the road to which a car 1 is going-in is caught in the view field of a driver through the mirror surfaces 7a and 7b at the right and the left of the mirror body 7. Therefore, the safety at the right and the left of the going in road can be recognized certainly and easily by the mirror body 7.

Classifications:
International (IPC 8-9): B60R1/00 B60R1/08 (Advanced/Invention); B60R1/00 B60R1/08 (Core/Invention)
International (IPC 1-7): B60R1/06
CPC: B60R1/006
European: B60R1/00K



Family:

Publication number	Publication date	Application number	Application date
JP57037042 A2	19820301	JP19800110127	19800811

Priority:

JP19800110127 19800811

Probable Assignee: TOKAI RIKA CO LTD
Assignee(s): (std): TOKAI RIKA CO LTD
Inventor(s): (std): SUZUKI MASARU

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Patent	Date recorded	Event group	Code	Event	Details
JP57037042 A2	19820301	LSPB	+	published / reissued	

Title: Retractable ladder assembly

Abstract: Source: US5033582A Ladder assemblies are needed on large vehicles for an operator to ascend to the cab of a vehicle. The ladder assembly should be moveable between a lowered position for easy access and a raised position to prevent damage to the ladder when the vehicle is in use. The subject ladder assembly includes a pair of spaced rails mounted to the vehicle and an elongate ladder moveably positioned between the spaced rails. Cooperating means extend between the rails and the elongate ladder to position the ladder with respect to the rails and guide the ladder on the rails when the ladder is moved. The arrangement of components provides a simple and compact arrangement for raising and lowering the ladder.

Classifications:

International (IPC 8-9): E06C5/04 (Advanced/Invention);
E06C5/00 (Core/Invention)

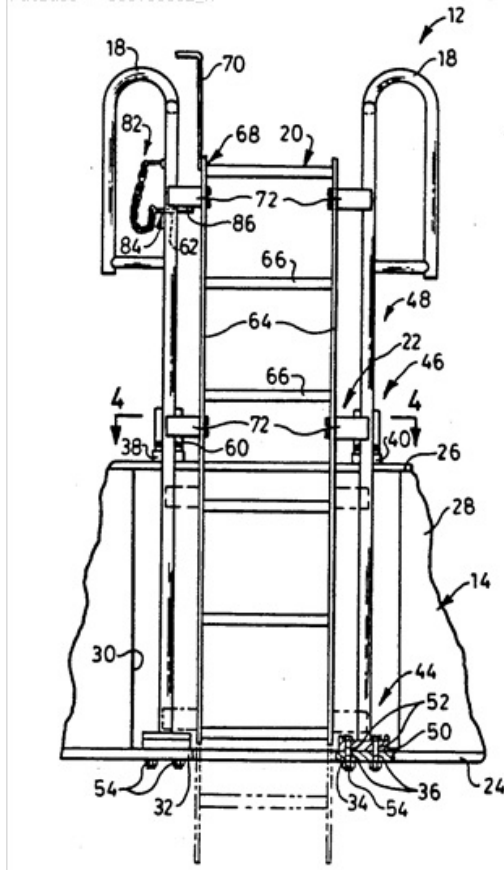
International (IPC 1-7): E06C5/04 E06C5/24

CPC: B60R3/02 E02F9/0833 E06C5/04

European: B60R3/02 E02F9/08B E06C5/04

US: 182/106 182/127 182/85 280/166

PatBase - US5033582_A



Family:

Publication number	Publication date	Application number	Application date
AU199066047 A1	19920317	AU19900066047	19901009
US5033582 A	19910723	US19900569674	19900820
WO9203632 A1	19920305	WO1990US05690	19901009
ZA9106184 A	19920429	ZA19910006184	19910806

Priority:

US19900569674 19900820 WO1990US05690 19901009

Probable Assignee: CATERPILLAR INC

Assignee(s): (std): CATERPILLAR INC

Inventor(s): (std): HOBEN LAURENCE R ; LAURENCE R HOBEN

Inventor(s): CATERPILLAR INC

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR HU IT JP KR LU NL NO RO SE SU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199066047 A1	19920317	LSPB	+	published / reissued	
US5033582 A	19910723	LSGT	+	granted / extensions (spc, cpc, pte)	
US5033582 A	19900820	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR INC., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:HOBEN, LAURENCE R.; REEL/FRAME:005414/0326 EFFECTIVE DATE : 19900815

US5033582 A	19910522	LSGT	PAT1	Patented Case	
US5033582 A	19941207	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5033582 A	19981130	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5033582 A	20021230	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
WO9203632 A1	19920305	LSPB	+	published / reissued	
WO9203632 A1	19930609	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9203632 A1	19930620	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : CA
ZA9106184 A	19920429	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Ladder apparatus and method for large mobile equipment

Abstract: Source: US5064022A A ladder apparatus and method for use with large construction equipment, such as large tractors, mining trucks and similar vehicles that have an operator's platform or operating station located a substantial distance off the ground. The powered ladder has a fixed ladder portion rigidly attached to such a vehicle. The fixed ladder portion has spacedly attached thereto a frame element upon which a retractable ladder element is slidably disposed. The retractable ladder element is raised and lowered by an electric winch operable from the vehicle's operating station.

Classifications:

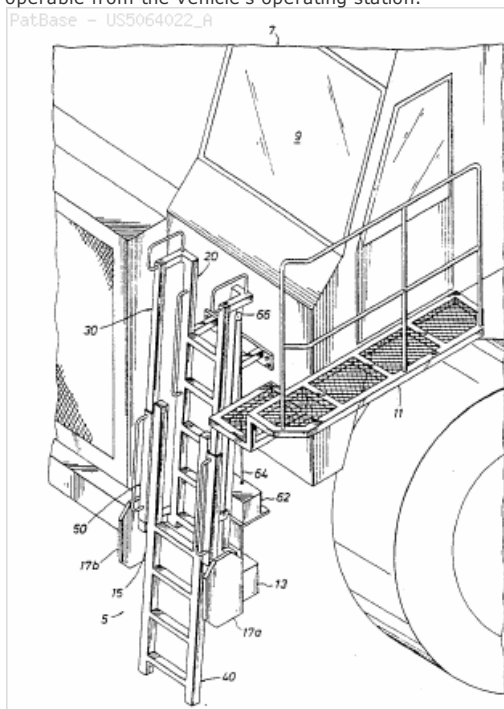
International (IPC 8-9): B60R3/02 E06C5/02 (Advanced/Invention); B60R3/00 E06C5/00 (Core/Invention)

International (IPC 1-7): E06C5/04

CPC: B60R3/02 E02F9/0833 E06C5/02

European: B60R3/02 E02F9/08B E06C5/02

US: 182/127 182/208 182/85 182/93



Family:

Publication number	Publication date	Application number	Application date
US5064022 A	19911112	US19890358314	19890530

Priority:

US19890358314 19890530

Probable Assignee: MOUNTAINEER COAL DEVELOPMENT CO

Assignee(s): (std): MARROWBONE DEV CO ; MARROWBONE DEV COMPANY

Assignee(s): STATE STREET BANK AND TRUST CO OF CONNECTICUT NATI ; UBS STAMFORD BRANCH AG ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICAS ADMINISTRATIVE AGE ; ICG LLC ; MOUNTAINEER COAL DEVELOPMENT CO ; MARROWBONE DEVELOPMENT CO ; STATE STREET BANK AND TRUST CO ; UBS AG ; SMC COAL AND TERMINAL CO ; MARROWBONE DEVELOPMENT COMPANY

Inventor(s): (std): GRAHAM GEORGE W

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5064022 A	19911112	LSGT	+	granted / extensions (spc, cpc, pte)	
US5064022 A	19910610	LSAS	AS	ASSIGNMENT	OWNER NAME : MARROWBONE DEVELOPMENT COMPANY, A WV CORPORATION DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:GRAHAM, GEORGE W.; REEL/FRAME:005725/0651 EFFECTIVE DATE : 19890516
US5064022 A	19921224	LSAS	AS	ASSIGNMENT	OWNER NAME : STATE STREET BANK AND TRUST COMPANY OF CONNECTICUT DESCRIPTION : SECURITY INTEREST; ASSIGNOR:MARROWBONE DEVELOPMENT COMPANY; REEL/FRAME:006353/0706 EFFECTIVE DATE : 19921116
US5064022 A	19941121	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5064022 A	19941205	LSAS	AS	ASSIGNMENT	OWNER NAME : STATE STREET BANK AND TRUST COMPANY OF CONNECTICUT DESCRIPTION : AMENDMENT TO PATENT

					AGREEMENT; ASSIGNOR:MARROWBONE DEVELOPMENT COMPANY; REEL/FRAME:007275/0340 EFFECTIVE DATE : 19941019
US5064022 A	19980831	LSAS	AS	ASSIGNMENT	OWNER NAME : MARROWBONE DEVELOPMENT COMPANY, ILLINOIS DESCRIPTION : RELEASE OF COLLATERAL FROM MORTGAGE; ASSIGNOR:STATE STREET BANK AND TRUST COMPANY OF CONNECTICUT, N.A.; REEL/FRAME:009414/0014 EFFECTIVE DATE : 19980824
US5064022 A	19980831	LSAS	AS	ASSIGNMENT	OWNER NAME : MARROWBONE DEVELOPMENT COMPANY, ILLINOIS DESCRIPTION : RELEASE OF PREMISES FROM MORTGAGE; ASSIGNOR:STATE STREET BANK AND TRUST COMPANY OF CONNECTICUT, N.A.; REEL/FRAME:009414/0209 EFFECTIVE DATE : 19980824
US5064022 A	19981015	LSAS	AS	ASSIGNMENT	OWNER NAME : UBS AG, STAMFORD BRANCH, CONNECTICUT DESCRIPTION : SECURITY INTEREST; ASSIGNORS:ZEIGLER COAL HOLDING COMPANY; SMC MINING COMPANY (NOW KNOWN AS BLUEGRASSCOAL DEVELOPMENT CO.); MOUNTAINEER COAL DEVELOPMENT COMPANY (MARROWBONE DEVELOPMENT CO. AS OWNER); REEL/FRAME:009507/0297 EFFECTIVE DATE : 19980902
US5064022 A	19990204	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5064022 A	20020514	LSAS	AS	ASSIGNMENT	OWNER NAME : DEUTSCHE BANK TRUST COMPANY AMERICAS, AS ADMINSTR DESCRIPTION : GRANT OF SECURITY INTEREST; ASSIGNOR:MOUNTAINEER COAL DEVELOPMENT COMPANY; REEL/FRAME:012906/0437 EFFECTIVE DATE : 20020508
US5064022 A	20031112	LSRE	+REIN	REINSTATEMENT AFTER MAINTENANCE FEE PAYMENT CONFIRMED	
US5064022 A	20040106	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20031112
US5064022 A	20041013	LSAS	AS	ASSIGNMENT	OWNER NAME : MOUNTAINEER COAL DEVELOPMENT COMPANY, KENTUCKY DESCRIPTION : BANKRUPTCY COURT ORDER APPROVING ASSIGNMENT FREE OF SECURITY INTERESTS; ASSIGNOR:DEUTSCHE BANK TRUSTCOMPANY AMERICAS; REEL/FRAME:015242/0656 EFFECTIVE DATE : 20040930
US5064022 A	20041013	LSAS	AS	ASSIGNMENT	OWNER NAME : MOUNTAINEER COAL DEVELOPMENT COMPANY, KENTUCKY DESCRIPTION : BANKRUPTCY COURT ORDER APPROVING ASSIGNMENT FREE OF SECURITY INTERESTS; ASSIGNOR:UBS AG; REEL/FRAME:015242/0347 EFFECTIVE DATE : 20040930
US5064022 A	20041014	LSAS	AS	ASSIGNMENT	OWNER NAME : ICG, LLC, KENTUCKY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MOUNTAINEER COAL DEVELOPMENT COMPANY; REEL/FRAME:015251/0008 EFFECTIVE DATE : 20040930
US5064022 A	20041111	LSAS	AS	ASSIGNMENT	OWNER NAME : UBS AG, STAMFORD BRANCH, CONNECTICUT DESCRIPTION : SECURITY AGREEMENT; ASSIGNOR:ICG, LLC; REEL/FRAME:015348/0635 EFFECTIVE DATE : 20040930
US5064022 A	20050104	LSAS	AS	ASSIGNMENT	OWNER NAME : SMC COAL AND TERMINAL COMPANY, KENTUCKY DESCRIPTION : CHANGE OF NAME; ASSIGNOR:MARROWBONE DEVELOPMENT COMPANY; REEL/FRAME:016116/0832 EFFECTIVE DATE : 19951201
US5064022 A	20050104	LSAS	AS	ASSIGNMENT	OWNER NAME : MOUNTAINEER COAL

DEVELOPMENT COMPANY, KENTUCKY
DESCRIPTION : CHANGE OF NAME;
ASSIGNOR:SMC COAL AND TERMINAL
COMPANY; REEL/FRAME:016480/0586
EFFECTIVE DATE : 19951212

US5064022 A	20060608	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5064022 A	20060904	LSRE	+PRDP	PATENT REINSTATED DUE TO THE ACCEPTANCE OF A LATE MAINTENANCE FEE	EFFECTIVE DATE : 20060905
US5064022 A	20060905	LSGT	PAT1	Patented Case	

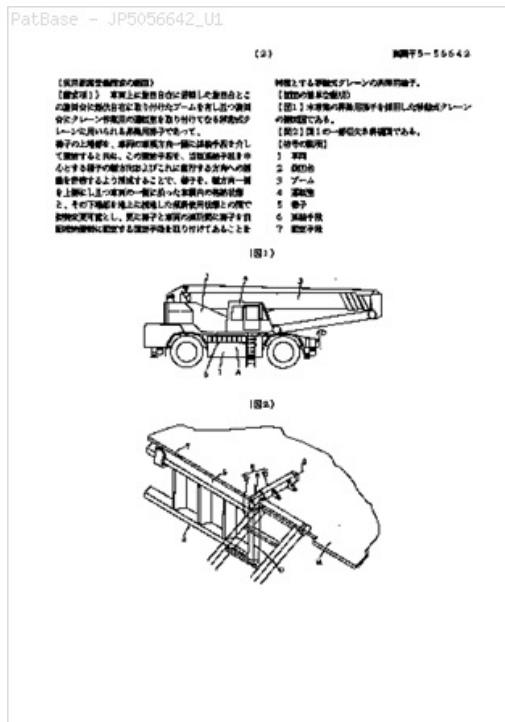
Title: Ladder for ascent and descent of portable type crane (Machine translation)

Classifications:

International (IPC 8-9): B60R3/02 B66C15/00 B66C23/62
E06C5/02 (Advanced/Invention);

B60R3/00 B66C15/00 B66C23/00 E06C5/00 (Core/Invention)

International (IPC 1-7): B60R3/02 B66C23/62 E06C5/02



Family:

Publication number	Publication date	Application number	Application date
JP2558161 Y2	19971217	JP19910113328U	19911227
JP5056642 U1	19930727	JP19910113328U	19911227

Priority:

JP19910113328U 19911227

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
JP2558161 Y2	19971217	LSPB	+	published / reissued	
JP5056642 U1	19930727	LSPB	+	published / reissued	

Title: Access device

Abstract: Source: US5988316A An access device for providing access between a substrate surface and an elevated surface. The access device comprises a ladder having first and second ends, the ladder including first and second side members connected by a plurality of cross members extending between the ends of the ladder. The ladder is pivotally connected to a rotary axle extending horizontally from the support surface so that the ladder may be moved between a substantially downwardly outwardly disposed boarding position and a substantially horizontally disposed storage position. The ladder is movable between the boarding position and the storage position and vice versa such that in a first step, the ladder is rotated on the axle by at least 90 DEG from the boarding position to a first intermediate position, in a second step, the ladder is pivoted between the first intermediate position and a second intermediate position wherein the second end of the ladder extends substantially above the elevated surface, and, in a third step, by rotation of the axle in the opposite direction, the ladder is moved between the second intermediate position and the storage position.

Classifications:

International (ipc 8-9): B60R3/02 E06C5/04 E06C5/06 E06C5/40 E06C9/06 E06C9/08 (Advanced/Invention);

B60R3/00 E06C5/00 E06C9/00 (Core/Invention)

International (ipc 1-7): B60R3/02 E06C5/04 E06C5/06 E06C5/40 E06C9/08

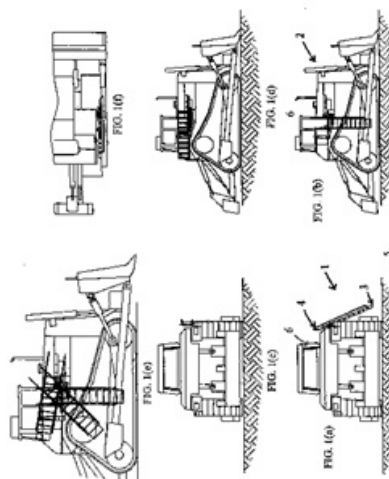
CPC: E06C9/08 B60R3/02 E02F9/0833 E06C5/04 E06C9/06

European: B60R3/02 E02F9/08B E06C5/04 E06C9/06 E06C9/08

US: 182/127 182/97

PatBase - US5988316_R

U.S. Patent Nov. 23, 1999 Sheet 1 of 7 5,988,316



Family:

Publication number	Publication date	Application number	Application date
AU199714992 A1	19970904	AU19970014992	19970227
AU713990 B2	19991216	AU19970014992	19970227
AU833096 A0	19960321	AU1996PN08330	19960227
CA2198512 AA	19970827	CA19972198512	19970226
CA2198512 C	20060418	CA19972198512	19970226
US5988316 A	19991123	US19970805427	19970225

Priority:

AU19960008330 19960227 AU1996PN08330 19960227 AU19970014992 19970227
CA19972198512 19970226

Probable Assignee: JUSTOY PTY LTD

Assignee(s): (std): JUSTOY PTY LTD

Assignee(s): HEDLEY ROBERT IAN

Inventor(s): (std): HEDLEY ROBERT IAN

Inventor(s): ROBERT IAN HEDLEY

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199714992 A1	19970904	LSPB	+	published / reissued	
AU713990 B2	19991216	LSGT	+	granted / extensions (spc, cpc, pte)	
AU713990 B2	20000413	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
CA2198512 AA	19970827	LSPB	+	published /	

CA2198512 AA	20020218	LSES	+EEER	reissued EXAMINATION REQUEST	
CA2198512 AA	20170501	LSLE	-MKEX	EXPIRY	EFFECTIVE DATE : 20170227
CA2198512 C	20060418	LSGT	+	granted / extensions (spc, cpc, pte)	
US5988316 A	19991123	LSGT	+	granted / extensions (spc, cpc, pte)	
US5988316 A	19970717	LSAS	AS	ASSIGNMENT	OWNER NAME : JUSTOY PTY LTD., AUSTRALIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEDLEY, ROBERT IAN; REEL/FRAME:008646/0620 EFFECTIVE DATE : 19970708
US5988316 A	19991115	LSGT	PAT1	Patented Case	
US5988316 A	20030428	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5988316 A	20070427	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5988316 A	20110420	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

Title: Access ladder assembly for an off-highway machine

Abstract: Source: US5813494A An access ladder assembly for an agricultural machine having a body with an elevated operator's station. The ladder assembly includes a ladder that is mounted to the frame of the machine by a pivot mechanism that allows the ladder to be moved in either rotational direction about both a generally horizontal axis and a generally vertical axis. A locking mechanism releasably holds the ladder in an angularly adjusted position about both of these axes. A release mechanism conveniently located relative to the operator's station controls operation of the locking mechanism. The ladder assembly further includes rail structure carried by the ladder and movable about a generally vertical axis to either of two adjusted positions.

Classifications:

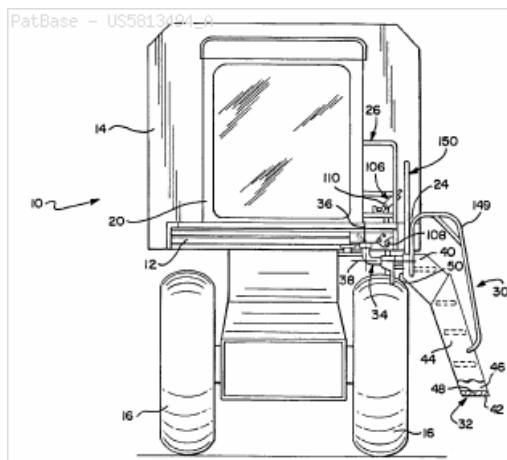
International (IPC 8-9): E06C5/04 (Advanced/Invention)

International (IPC 1-7): E06C5/04

CPC: A01D41/1261 B60R3/02 E02F9/0833 E06C5/04

European: A01D41/12L B60R3/02 E02F9/08B E06C5/04

US: 182/106 182/127 182/97



Family:

Publication number	Publication date	Application number	Application date
US5813494 A	19980929	US19950389328	19950216

Priority:

US19950389328 19950216

Probable Assignee: BLUE LEAF IP INC

Assignee(s): (std): CASE CORP

Assignee(s): CNH AMERICA LLC ; BLUE LEAF IP ; BLUE LEAF IP INC

Inventor(s): (std): FARLEY HERB MAX ; HARDESTY RICHARD A ; ULSCHMID TIMOTHY G

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5813494 A	19980929	LSGT	+	granted / extensions (spc, cpc, pte)	
US5813494 A	19950216	LSAS	AS	ASSIGNMENT	OWNER NAME : CASE CORPORATION, WISCONSIN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:FARLEY, HERB MAX; REEL/FRAME:007359/0008 EFFECTIVE DATE : 19950201
US5813494 A	19950216	LSAS	AS	ASSIGNMENT	OWNER NAME : CASE CORPORATION, WISCONSIN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ULSCHMID, TIMOTHY G.; HARDESTY, RICHARD A.; REEL/FRAME:007359/0006 EFFECTIVE DATE : 19950208
US5813494 A	19980730	LSGT	PAT1	Patented Case	
US5813494 A	20020226	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5813494 A	20040805	LSAS	AS	ASSIGNMENT	OWNER NAME : CNH AMERICA LLC, PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CASE CORPORATION; REEL/FRAME:014981/0944 EFFECTIVE DATE : 20040805
US5813494 A	20051007	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5813494 A	20060607	LSAS	AS	ASSIGNMENT	OWNER NAME : BLUE LEAF I.P., INC., DELAWARE DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CNH AMERICA LLC;

					REEL/FRAME:017766/0484 EFFECTIVE DATE : 20060606
US5813494 A	20060607	LSAS	AS	ASSIGNMENT	OWNER NAME : CNH AMERICA LLC, PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CNH AMERICA LLC; REEL/FRAME:017766/0484 EFFECTIVE DATE : 20060606
US5813494 A	20100129	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

Title: Access device

Abstract: Source: US5996737A An access device (1) for providing access between a lower level and an upper level. The device (1) includes a platform member (2), a ladder member (3) and a rotating actuator (4). The platform (2) and the ladder (3) are movable between an access position (Fig. 1) wherein the ladder (3) is positioned downwardly and the platform (2) is horizontal, and, a storage position (Fig. 3), in which the ladder (3) is positioned upwards and the platform (2) is vertical. In a first step, the actuator (4) rotates the ladder through about a 90 DEG angle to an intermediate position (Fig. 2) at which time the ladder (3) engages with the platform (2). Then, in a second step, the ladder (3) and platform (2) cooperatively rotate between the intermediate position (Fig. 2) and the stored position (Fig. 3).

Classifications:

International (IPC 8-9): B60R3/00 B60R3/02 B62D25/22 E06C5/06 E06C5/40 (Advanced/Invention); B60R3/00 B62D25/00 E06C5/00 (Core/Invention)

International (IPC 1-7): B60R3/00 B60R3/02 B62D25/22 E06C5/06 E06C5/22 E06C5/40 E16C

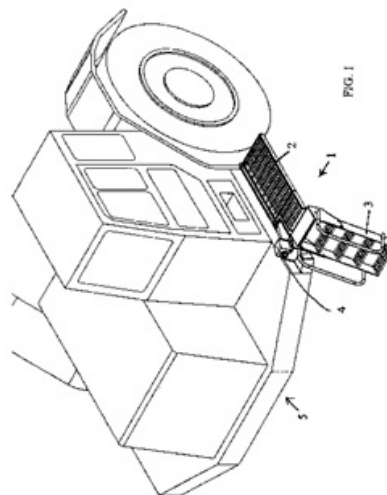
CPC: B60R3/02 E02F9/0833

European: B60R3/02 E02F9/08B

US: 182/127 182/84 182/86 280/166

PatBase - US5996737_R

U.S. Patent Dec. 7, 1999 Sheet 1 of 8 5,996,737



Family:

Publication number	Publication date	Application number	Application date
AU175098 A0	19980305	AU1998PP01750	19980210
AU199915445 A1	19990826	AU19990015445	19990205
AU749834 B2	20020704	AU19990015445	19990205
CA2261406 AA	19990810	CA19992261406	19990210
CA2261406 C	20020423	CA19992261406	19990210
US5996737 A	19991207	US19990246313	19990208
ZA9901028 A	19990810	ZA19990001028	19990209

Priority:

AU1998PP01750 19980210 AU19990015445 19990205 CA19992261406 19990210

Probable Assignee: JUSTOY PTY LTD

Assignee(s): (std): JUSTOY PTY LTD

Assignee(s): WHYBIN CHRISTOPHER NASH ; HEDLEY ROBERT IAN

Inventor(s): (std): HEDLEY ROBERT IAN ; WHYBIN CHRISTOPHER NASH

Inventor(s): CHRISTOPHER NASH WHYBIN ; ROBERT IAN HEDLEY

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MARKS AND CLERK

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199915445 A1	19990826	LSPB	+	published / reissued	
AU749834 B2	20020704	LSGT	+	granted / extensions (spc, cpc, pte)	
AU749834 B2	20021031	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
CA2261406 AA	19990810	LSPB	+	published / reissued	

CA2261406 AA	19990210	LSES	+EEER	EXAMINATION REQUEST	
CA2261406 C	20020423	LSGT	+	granted / extensions (spc, cpc, pte)	
US5996737 A	19991207	LSGT	+	granted / extensions (spc, cpc, pte)	
US5996737 A	19990416	LSAS	AS	ASSIGNMENT	OWNER NAME : JUSTOY PTY LTD, AUSTRALIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HEDLEY, ROBERT IAN; WHYBIN, CHRISTOPHER NASH; REEL/FRAME:009892/0869 EFFECTIVE DATE : 19990407
US5996737 A	19991126	LSGT	PAT1	Patented Case	
US5996737 A	20030606	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5996737 A	20070518	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5996737 A	20110518	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
ZA9901028 A	19990810	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Access device

Abstract: Source: US6029775A An access device for providing access between a substrate surface and the cabin of a vehicle. The device is attached to a rotating actuator extending outwardly from the side of the cabin for moving of the device between the access position (Fig. 1) and the storage position (Fig. 3). The device includes a substantially triangularly shaped platform. A first side of the platform is attached to the rotating actuator. A second side of the platform has the ladder depending therefrom. The third side of the platform is, in the access position (Fig. 1) located proximal to the cabin. The device is rotated by the rotating actuator to the storage position (Fig. 3) wherein the device is substantially upturned relative to the access position (Fig. 1) of the device and wherein a substantial part of the device is positioned above the rotating actuator.

Classifications:

International (IPC 8-9): B60R3/02 B62D25/22 E06C5/02 E06C5/04 E06C5/24 (Advanced/Invention);

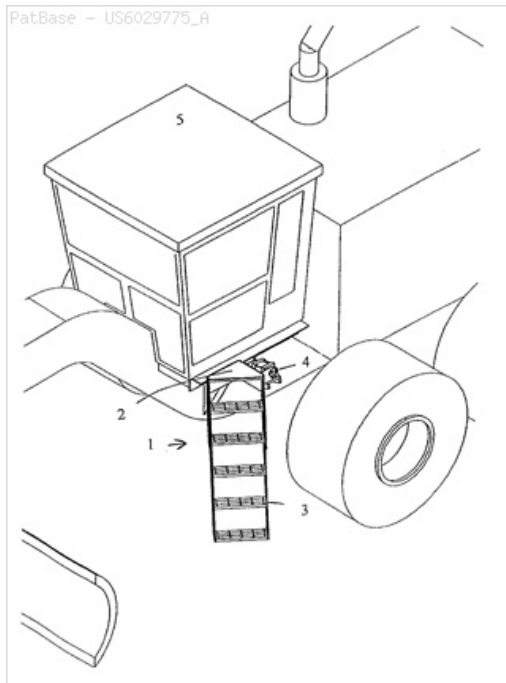
B60R3/00 B62D25/00 E06C5/00 (Core/Invention)

International (IPC 1-7): B60R3/02 B62D25/22 E06C5/04 E06C5/22 E06C5/24 E16C

CPC: E02F9/0833 B60R3/02 E06C5/02

European: B60R3/02 E02F9/08B E06C5/02

US: 182/127 182/84 280/166



Family:

Publication number	Publication date	Application number	Application date
AU175198 A0	19980305	AU1998PP01751	19980210
AU199915451 A1	19990826	AU19990015451	19990208
AU749701 B2	20020704	AU19990015451	19990208
CA2261359 AA	19990810	CA19992261359	19990210
CA2261359 C	20030729	CA19992261359	19990210
US6029775 A	20000229	US19990246235	19990208
ZA9901025 A	19990810	ZA19990001025	19990209

Priority:

AU1998PP01751 19980210 AU19990015451 19990208 CA19992261359 19990210

Probable Assignee: JUSTOY PTY LTD

Assignee(s): (std): JUSTOY PTY LTD

Assignee(s): WHYBIN CHRISTOPHER NASH ; HEDLEY ROBERT IAN

Inventor(s): (std): HEDLEY ROBERT IAN ; WHYBIN CHRISTOPHER NASH

Inventor(s): CHRISTOPHER NASH WHYBIN ; ROBERT IAN HEDLEY

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MARKS AND CLERK

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Patent	Date recorded	Event group	Code	Event	Details
AU199915451 A1	19990826	LSPB	+	published / reissued	
AU749701 B2	20020704	LSGT	+	granted / extensions (spc, cpc, pte)	
AU749701 B2	20021031	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
CA2261359 AA	19990810	LSPB	+	published / reissued	
CA2261359 AA	19990210	LSES	+EER	EXAMINATION	

CA2261359 C	20030729	LSGT	+	REQUEST granted / extensions (spc, cpc, pte)	
US6029775 A	20000229	LSGT	+	granted / extensions (spc, cpc, pte)	
US6029775 A	19990416	LSAS	AS	ASSIGNMENT	OWNER NAME : JUSTOY PTY LTD., AUSTRALIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HEDLEY, ROBERT IAN; WHYBIN, CHRISTOPHER NASH; REEL/FRAME:009892/0111 EFFECTIVE DATE : 19990407
US6029775 A	20000217	LSGT	PAT1	Patented Case	
US6029775 A	20031024	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6029775 A	20070806	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6029775 A	20110727	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
ZA9901025 A	19990810	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Moveable steps for a vehicle

Abstract: Source: US6264227B A system for moving a step assembly in response to maneuvers of an articulated work vehicle. The step assembly moves to avoid interference with the vehicle's wheels or tracks. A push rod assembly provides actuation to the step assembly in response to the vehicle motions.

Classifications:

International (IPC 8-9): B60R3/02 (Advanced/Invention);

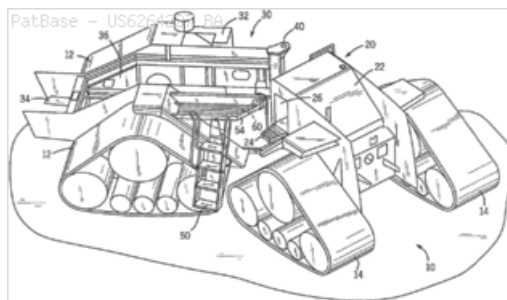
B60R3/00 (Core/Invention)

International (IPC 1-7): B60R3/00

CPC: B60R3/02

European: B60R3/02

US: 180/9.1 180/91 182/127 280/166 280/400



Family:

Publication number	Publication date	Application number	Application date
US6264227 BA	20010724	US19980164616	19981001

Priority:

US19980164616 19981001

Probable Assignee: BLUE LEAF IP INC

Assignee(s): (std): CASE CORP

Assignee(s): CNH AMERICA LLC ; BLUE LEAF IP ; BLUE LEAF IP INC

Inventor(s): (std): GARBERG BRYAN J ; JOHNSON BRAD ; LYKKEN THOMAS G

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US6264227 BA	20010724	LSGT	+	granted / extensions (spc, cpc, pte)	
US6264227 BA	19981001	LSAS	AS	ASSIGNMENT	OWNER NAME : CASE CORPORATION, WISCONSIN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JOHNSON, BRAD; LYKKEN, THOMAS G.; GARBERG, BRYAN J.; REEL/FRAME:009497/0532 EFFECTIVE DATE : 19980902
US6264227 BA	20010706	LSGT	PAT1	Patented Case	
US6264227 BA	20040804	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6264227 BA	20040805	LSAS	AS	ASSIGNMENT	OWNER NAME : CNH AMERICA LLC, PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CASE CORPORATION; REEL/FRAME:014981/0944 EFFECTIVE DATE : 20040805
US6264227 BA	20060607	LSAS	AS	ASSIGNMENT	OWNER NAME : CNH AMERICA LLC, PENNSYLVANIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CNH AMERICA LLC; REEL/FRAME:017766/0484 EFFECTIVE DATE : 20060606
US6264227 BA	20060607	LSAS	AS	ASSIGNMENT	OWNER NAME : BLUE LEAF I.P., INC., DELAWARE DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CNH AMERICA LLC; REEL/FRAME:017766/0484 EFFECTIVE DATE : 20060606
US6264227 BA	20081220	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6264227 BA	20121218	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

Title: SWING-AWAY STAIR ASSEMBLY

Abstract: Source: US2003230867A The present invention provides a swing-away stair assembly including a pivot bracket assembly for supporting a stair body for pivotal movement on a work machine, such as a landfill compactor. The pivot bracket assembly includes a stair support sub-assembly having an attachment portion for attaching to the stair body and a pivot portion spaced from the attachment portion. The pivot bracket assembly further includes a pivot mount sub-assembly for attaching the swing-away assembly to the lateral side of the machine, the pivot mount sub-assembly including a mounting portion for attaching to the lateral side of the machine and a pivot portion spaced from the mounting portion. A hinge member cooperates with the stair support sub-assembly and the pivot mount sub-assembly whereby the stair support sub-assembly is supported for pivotal movement relative to the pivot mount sub-assembly for supporting the stair for pivotal movement relative to the lateral side of the machine. The hinge member provides a pivot axis for the stair body which is located laterally outwardly from the lateral side of the work machine whereby the stair body is supported for movement around a rear wheel of the work machine, and is capable of 180 degrees of pivotal movement between an operational position extending over the rear wheel and an access position displaced from the rear wheel.

Classifications:

International (IPC 8-9): B60R3/00 B60R3/02 (Advanced/Invention); B60R3/00 (Core/Invention)

International (IPC 1-7): A63B22/06 A63B69/16 B60R3/00

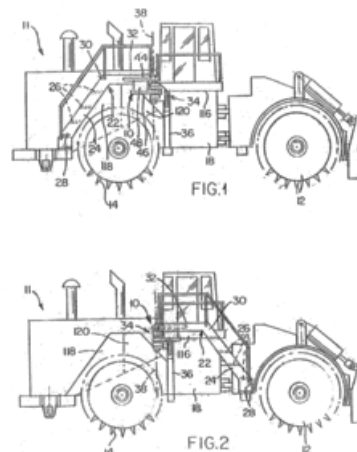
CPC: B60R3/02 E02F9/0833

European: B60R3/02 E02F9/08B

US: 182/127 280/166 280/166P 280/63 280/66

PatBase - US2003230867_AA

Patent Application Publication Dec. 18, 2003 Sheet 1 of 4 US 2003/0230867 A1

**Family:**

Publication number	Publication date	Application number	Application date
US2003230867 AA	20031218	US20030455828	20030606
US2005263976 AA	20051201	US20050180473	20050713
US7354050 BB	20080408	US20050180473	20050713

Priority:

US20020388786P 20020614 US20030455828 20030606 US20050180473 20050713

Probable Assignee: TERRA COMPACTOR WHEEL CORP

Assignee(s): (std): BROCKWAY ROBERT J ; TERRA COMPACTOR WHEEL CORP

Assignee(s): BANK FIRST NATIONAL ; BROCKWAY ROBERT JOHN

Inventor(s): (std): BROCKWAY ROBERT J ; BROCKWAY ROBERT JOHN

Inventor(s): BROCKWAY ROBERT

Agent(s): STEVENS AND SHOWALTER LLP; ZIOLKOWSKI PATENT SOLUTIONS GROUP SC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2003230867 AA	20031218	LSPB	+	published / reissued	
US2003230867 AA	20050810	LSAS	AS	ASSIGNMENT	OWNER NAME : TERRA COMPACTOR WHEEL CORP., WISCONSIN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: BROCKWAY, ROBERT JOHN; REEL/FRAME: 016627/0049 EFFECTIVE DATE : 20050722
US2003230867 AA	20060206	LSWD	-ABD3	Abandoned - Failure to Respond to an Office Action	

US2005263976 AA	20051201	LSPB	+	published / reissued	
US7354050 BB	20080408	LSGT	+	granted / extensions (spc, cpc, pte)	
US7354050 BB	20050810	LSAS	AS	ASSIGNMENT	OWNER NAME : TERRA COMPACTOR WHEEL CORP., WISCONSIN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: BROCKWAY, ROBERT JOHN; REEL/FRAME: 016626/0110 EFFECTIVE DATE : 20050722
US7354050 BB	20080319	LSGT	PAT1	Patented Case	
US7354050 BB	20081111	LSAS	AS	ASSIGNMENT	OWNER NAME : BANK FIRST NATIONAL, WISCONSIN DESCRIPTION : SECURITY AGREEMENT; ASSIGNORS: TERRA COMPACTOR WHEEL CORP.; TERRA ENVIRONMENTAL GROUP, INC.; TERRA COMPACTOR WHEEL CORPORATION; AND OTHERS; REEL/FRAME: 021805/0813 EFFECTIVE DATE : 20081105
US7354050 BB	20110808	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7354050 BB	20150807	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8

Title: MOBILE MOUNT FOR ATTACHMENT OF A FALL ARREST SYSTEM

Abstract: Source: US2005247517A A mobile mount for attachment of a fall arrest system is provided for example for aircraft and includes a base carried on ground wheels and a support which is adjustable in height upstanding from the base and an arm cantilevered over the base. At least one receptacle is mounted on the arm of the support at a position located over the base for attachment to a personal fall arrest system including a harness for one or more persons, with the receptacle, base and support being designed and arranged to receive a loading from the personal fall arrest system sufficient to accommodate a fall of the person from the elevated structure.

Classifications:

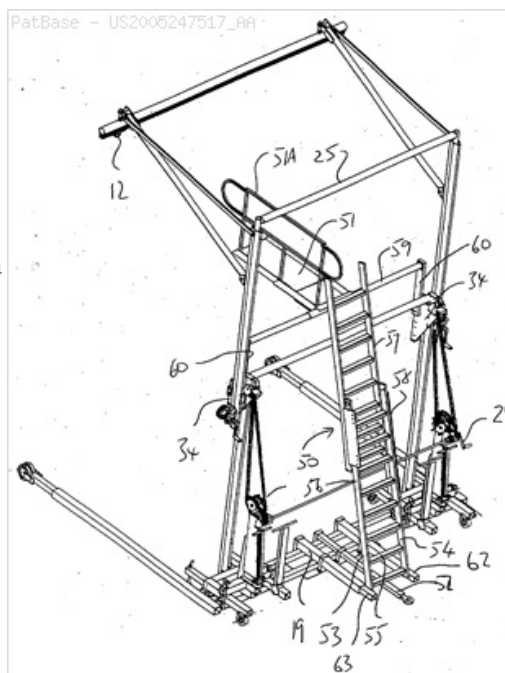
International (ipc 8-9): A62B1/00 A62B1/04 A62B35/00 A62B99/00 E04G1/18 E04G1/22 E06C1/12 E06C1/39 E06C1/397 E06C5/00 E06C5/04 E06C5/32 E06C7/18 G01L5/00 (Advanced/Invention); A62B5/00 (Advanced/Non-invention); A62B1/00 A62B35/00 A62B99/00 E04G1/18 E06C1/00 E06C5/00 E06C7/00 G01L5/00 (Core/Invention); A62B5/00 (Core/Non-invention)

International (ipc 1-7): A62B1/00 A62B35/00 A62B37/00 E06C5/00 E06C5/32 E06C7/18

CPC: A62B5/00 E06C5/04 E06C7/182 E06C7/187 A62B1/04 A62B35/0056 A62B35/0068 E06C1/39 E06C5/02 E06C7/18 B66C23/90 G01L5/047 E06C1/12 E06C1/397 E06C7/186 Y10S116/34

European: A62B1/04 A62B35/00B2 A62B35/00B6 B66C23/90 E06C1/12 E06C1/39 E06C1/397 E06C5/02 E06C5/04 E06C7/18 E06C7/18B1 E06C7/18D E06C7/18D1 G01L5/04D K62B5/00

US: 116/200 116/212 116/DIG.34 182/101 182/115 182/116 182/12 182/12P 182/141 182/18 182/180.2 182/3 182/3P 182/63.1 182/69.4 182/8



Family:

Publication number	Publication date	Application number	Application date
CA2466718 AA	20051107	CA20042466718	20040507
CA2466718 C	20100706	CA20042466718	20040507
CA2690528 AA	20051107	CA20042690528	20040507
CA2690528 C	20121002	CA20042690528	20040507
US2005247517 AA	20051110	US20040841838	20040510
US2007113776 AA	20070524	US20050283413	20051121
US2007205047 AA	20070906	US20060509084	20060824
US2009152045 AA	20090618	US20090389798	20090220
US7363875 BB	20080429	US20050283413	20051121
US7740106 BB	20100622	US20040841838	20040510
US7828116 BB	20101109	US20060509084	20060824

Priority:

CA20042466718 20040507	CA20042690528 20040507	US20040841838 20040510
US20090389798 20090220	US20060509084 20060824	US20050283413 20051121

Probable Assignee: D B IND INC

Assignee(s): (std): CAPITAL SAFETY GROUP WINNIPEG ; CAPITAL SAFETY GROUP WINNIPEG LTD ; VETESNIK JAN ; UNIQUE CONCEPTS LTD

Assignee(s): UBS STAMFORD BRANCH COLLATERAL AGENT AG AS ; D B IND LLC ; REDWING US LLC PLEDGOR AS ; MORGAN STANLEY SENIOR FUNDING INC COLLATERAL AGENT AS ; CAPITAL SAFETY INC ; D B IND INC ; D B IND INC PLEDGOR AS ; CAPITAL SAFETY GROUP CANADA LTD

Inventor(s): (std): VETESNIK JAN

Agent(s): CASSAN MACLEAN; ADE AND COMPANY; ADE AND CO; ADE AND CO INC; IPLM GROUP PA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2466718 AA	20051107	LSPB	+	published / reissued	
CA2466718 AA	20060823	LSES	+EEER	EXAMINATION REQUEST	
CA2466718 C	20100706	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2690528 AA	20051107	LSPB	+	published / reissued	

CA2690528 AA	20100120	LSSES	+EEER	EXAMINATION REQUEST	
CA2690528 C	20121002	LSGT	+	granted / extensions (spc, cpc, pte)	
US2005247517 AA	20051110	LSPB	+	published / reissued	
US2005247517 AA	20070309	LSAS	AS	ASSIGNMENT	OWNER NAME : UNIQUE CONCEPTS LTD., CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VETESNIK, JAN; REEL/FRAME:018988/0225 EFFECTIVE DATE : 20040603
US2005247517 AA	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD., CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:019520/0348 EFFECTIVE DATE : 20070322
US2007113776 AA	20070524	LSPB	+	published / reissued	
US2007205047 AA	20070906	LSPB	+	published / reissued	
US2007205047 AA	20070313	LSAS	AS	ASSIGNMENT	OWNER NAME : UNIQUE CONCEPTS LTD., CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VETESNIK, JAN; REEL/FRAME:019001/0557 EFFECTIVE DATE : 20070313
US2007205047 AA	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD., CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:019520/0348 EFFECTIVE DATE : 20070322
US2009152045 AA	20090618	LSPB	+	published / reissued	
US2009152045 AA	20110313	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US7363875 BB	20080429	LSGT	+	granted / extensions (spc, cpc, pte)	
US7363875 BB	20070313	LSAS	AS	ASSIGNMENT	OWNER NAME : UNIQUE CONCEPTS LTD., CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VETESNIK, JAN; REEL/FRAME:019001/0480 EFFECTIVE DATE : 20070313
US7363875 BB	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD., CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:019520/0348 EFFECTIVE DATE : 20070322
US7363875 BB	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD.,CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:019520/0348 EFFECTIVE DATE : 20070322
US7363875 BB	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD.,CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:19520/348 EFFECTIVE DATE : 20070322
US7363875 BB	20080409	LSGT	PAT1	Patented Case	
US7363875 BB	20110315	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, INC., MINNESOTA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CAPITAL SAFETY GROUP CANADA LTD.; REEL/FRAME:025961/0655 EFFECTIVE DATE : 20110217

US7363875 BB	20110315	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP CANADA LTD., CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CAPITAL SAFETY GROUP WINNIPEG LTD.; REEL/FRAME:025956/0635 EFFECTIVE DATE : 20090708
US7363875 BB	20110823	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7363875 BB	20120120	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY, INC., MINNESOTA DESCRIPTION : RELEASE OF SECURITY INTEREST R/F 019658/0069; ASSIGNOR:BANK OF SCOTLAND PLC (FORMERLY KNOWN AS THE GOVERNOR AND THE COMPANY OF THE BANK OF SCOTLAND); REEL/FRAME:027631/0727 EFFECTIVE DATE : 20120119
US7363875 BB	20120120	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, INC., MINNESOTA DESCRIPTION : RELEASE OF SECURITY INTEREST R/F 019658/0069; ASSIGNOR:BANK OF SCOTLAND PLC (FORMERLY KNOWN AS THE GOVERNOR AND THE COMPANY OF THE BANK OF SCOTLAND); REEL/FRAME:027631/0727 EFFECTIVE DATE : 20120119
US7363875 BB	20120131	LSAS	AS	ASSIGNMENT	OWNER NAME : UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT, CONN DESCRIPTION : SECURITY AGREEMENT; ASSIGNORS:D B INDUSTRIES, INC., A MINNESOTA CORPORATION; REDWING US LLC, A DELAWARE LLC; REEL/FRAME:027625/0461 EFFECTIVE DATE : 20120119
US7363875 BB	20130315	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, LLC, MINNESOTA DESCRIPTION : CONVERSION; ASSIGNOR:D B INDUSTRIES, INC.; REEL/FRAME:030005/0269 EFFECTIVE DATE : 20121227
US7363875 BB	20140402	LSAS	AS	ASSIGNMENT	OWNER NAME : REDWING US LLC, AS PLEDGOR, MINNESOTA DESCRIPTION : RELEASE OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT; REEL/FRAME:032589/0661 EFFECTIVE DATE : 20140327
US7363875 BB	20140402	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, INC., AS PLEDGOR, MINNESOTA DESCRIPTION : RELEASE OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT; REEL/FRAME:032589/0661 EFFECTIVE DATE : 20140327
US7363875 BB	20140403	LSAS	AS	ASSIGNMENT	OWNER NAME : UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT, CONN DESCRIPTION : GRANT OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:D B INDUSTRIES, LLC, AS GRANTOR; REEL/FRAME:032594/0039 EFFECTIVE DATE : 20140327
US7363875 BB	20140404	LSAS	AS	ASSIGNMENT	OWNER NAME : MORGAN STANLEY SENIOR FUNDING, INC., AS COLLATERAL DESCRIPTION : SECOND LIEN GRANT OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:D B INDUSTRIES, LLC, AS GRANTOR; REEL/FRAME:032606/0226 EFFECTIVE DATE : 20140327
US7363875 BB	20150903	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, LLC, MINNESOTA DESCRIPTION : RELEASE BY SECURED PARTY; ASSIGNOR:MORGAN STANLEY SENIOR FUNDING, INC.; REEL/FRAME:036530/0142 EFFECTIVE DATE : 20150803

US7363875 BB	20150903	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, LLC, MINNESOTA DESCRIPTION : RELEASE BY SECURED PARTY; ASSIGNOR:UBS AG, STAMFORD BRANCH; REEL/FRAME:036529/0847 EFFECTIVE DATE : 20150803
US7363875 BB	20150909	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7740106 BB	20100622	LSGT	+	granted / extensions (spc, cpc, pte)	
US7740106 BB	20070309	LSAS	AS	ASSIGNMENT	OWNER NAME : UNIQUE CONCEPTS LTD., CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VETESNIK, JAN; REEL/FRAME:018988/0225 EFFECTIVE DATE : 20040603
US7740106 BB	20070309	LSAS	AS	ASSIGNMENT	OWNER NAME : UNIQUE CONCEPTS LTD.,CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VETESNIK, JAN; REEL/FRAME:18988/225 EFFECTIVE DATE : 20040603
US7740106 BB	20070309	LSAS	AS	ASSIGNMENT	OWNER NAME : UNIQUE CONCEPTS LTD.,CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VETESNIK, JAN; REEL/FRAME:018988/0225 EFFECTIVE DATE : 20040603
US7740106 BB	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD., CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:019520/0348 EFFECTIVE DATE : 20070322
US7740106 BB	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD.,CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:019520/0348 EFFECTIVE DATE : 20070322
US7740106 BB	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD.,CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:19520/348 EFFECTIVE DATE : 20070322
US7740106 BB	20100602	LSGT	PAT1	Patented Case	
US7740106 BB	20101116	LSRE	CC	CERTIFICATE OF CORRECTION	
US7740106 BB	20110315	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP CANADA LTD., CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CAPITAL SAFETY GROUP WINNIPEG LTD.; REEL/FRAME:025956/0635 EFFECTIVE DATE : 20090708
US7740106 BB	20110315	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, INC., MINNESOTA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CAPITAL SAFETY GROUP CANADA LTD.; REEL/FRAME:025961/0655 EFFECTIVE DATE : 20110217
US7740106 BB	20120131	LSAS	AS	ASSIGNMENT	OWNER NAME : UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT, CONN DESCRIPTION : SECURITY AGREEMENT; ASSIGNORS:D B INDUSTRIES, INC., A MINNESOTA CORPORATION; REDWING US LLC, A DELAWARE LLC; REEL/FRAME:027625/0461 EFFECTIVE DATE : 20120119

US7740106 BB	20130315	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, LLC, MINNESOTA DESCRIPTION : CONVERSION; ASSIGNOR:D B INDUSTRIES, INC.; REEL/FRAME:030005/0269 EFFECTIVE DATE : 20121227
US7740106 BB	20131029	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7740106 BB	20140402	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, INC., AS PLEDGOR, MINNESOTA DESCRIPTION : RELEASE OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT; REEL/FRAME:032589/0661 EFFECTIVE DATE : 20140327
US7740106 BB	20140402	LSAS	AS	ASSIGNMENT	OWNER NAME : REDWING US LLC, AS PLEDGOR, MINNESOTA DESCRIPTION : RELEASE OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT; REEL/FRAME:032589/0661 EFFECTIVE DATE : 20140327
US7740106 BB	20140403	LSAS	AS	ASSIGNMENT	OWNER NAME : UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT, CONN DESCRIPTION : GRANT OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:D B INDUSTRIES, LLC, AS GRANTOR; REEL/FRAME:032594/0039 EFFECTIVE DATE : 20140327
US7740106 BB	20140404	LSAS	AS	ASSIGNMENT	OWNER NAME : MORGAN STANLEY SENIOR FUNDING, INC., AS COLLATERAL DESCRIPTION : SECOND LIEN GRANT OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:D B INDUSTRIES, LLC, AS GRANTOR; REEL/FRAME:032606/0226 EFFECTIVE DATE : 20140327
US7740106 BB	20150903	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, LLC, MINNESOTA DESCRIPTION : RELEASE BY SECURED PARTY; ASSIGNOR:MORGAN STANLEY SENIOR FUNDING, INC.; REEL/FRAME:036530/0142 EFFECTIVE DATE : 20150803
US7740106 BB	20150903	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, LLC, MINNESOTA DESCRIPTION : RELEASE BY SECURED PARTY; ASSIGNOR:UBS AG, STAMFORD BRANCH; REEL/FRAME:036529/0847 EFFECTIVE DATE : 20150803
US7828116 BB	20101109	LSGT	+	granted / extensions (spc, cpc, pte)	
US7828116 BB	20070313	LSAS	AS	ASSIGNMENT	OWNER NAME : UNIQUE CONCEPTS LTD., CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VETESNIK, JAN; REEL/FRAME:019001/0557 EFFECTIVE DATE : 20070313
US7828116 BB	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD., CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:019520/0348 EFFECTIVE DATE : 20070322
US7828116 BB	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD.,CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:019520/0348 EFFECTIVE DATE : 20070322
US7828116 BB	20070706	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP WINNIPEG LTD.,CANADA DESCRIPTION : MERGER; ASSIGNOR:UNIQUE CONCEPTS, LTD.; REEL/FRAME:19520/348 EFFECTIVE DATE : 20070322
US7828116 BB	20101020	LSGT	PAT1	Patented	

US7828116 BB	20101228	LSRE	CC	Case CERTIFICATE OF CORRECTION	
US7828116 BB	20110315	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, INC., MINNESOTA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CAPITAL SAFETY GROUP CANADA LTD.; REEL/FRAME:025961/0655 EFFECTIVE DATE : 20110217
US7828116 BB	20110315	LSAS	AS	ASSIGNMENT	OWNER NAME : CAPITAL SAFETY GROUP CANADA LTD., CANADA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CAPITAL SAFETY GROUP WINNIPEG LTD.; REEL/FRAME:025956/0635 EFFECTIVE DATE : 20090708
US7828116 BB	20120131	LSAS	AS	ASSIGNMENT	OWNER NAME : UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT, CONN DESCRIPTION : SECURITY AGREEMENT; ASSIGNORS:D B INDUSTRIES, INC., A MINNESOTA CORPORATION; REDWING US LLC, A DELAWARE LLC; REEL/FRAME:027625/0461 EFFECTIVE DATE : 20120119
US7828116 BB	20130315	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, LLC, MINNESOTA DESCRIPTION : CONVERSION; ASSIGNOR:D B INDUSTRIES, INC.; REEL/FRAME:030005/0269 EFFECTIVE DATE : 20121227
US7828116 BB	20140331	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7828116 BB	20140402	LSAS	AS	ASSIGNMENT	OWNER NAME : REDWING US LLC, AS PLEDGOR, MINNESOTA DESCRIPTION : RELEASE OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT; REEL/FRAME:032589/0661 EFFECTIVE DATE : 20140327
US7828116 BB	20140402	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, INC., AS PLEDGOR, MINNESOTA DESCRIPTION : RELEASE OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT; REEL/FRAME:032589/0661 EFFECTIVE DATE : 20140327
US7828116 BB	20140403	LSAS	AS	ASSIGNMENT	OWNER NAME : UBS AG, STAMFORD BRANCH, AS COLLATERAL AGENT, CONN DESCRIPTION : GRANT OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:D B INDUSTRIES, LLC, AS GRANTOR; REEL/FRAME:032594/0039 EFFECTIVE DATE : 20140327
US7828116 BB	20140404	LSAS	AS	ASSIGNMENT	OWNER NAME : MORGAN STANLEY SENIOR FUNDING, INC., AS COLLATERAL DESCRIPTION : SECOND LIEN GRANT OF SECURITY INTEREST IN PATENT RIGHTS; ASSIGNOR:D B INDUSTRIES, LLC, AS GRANTOR; REEL/FRAME:032606/0226 EFFECTIVE DATE : 20140327
US7828116 BB	20150903	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, LLC, MINNESOTA DESCRIPTION : RELEASE BY SECURED PARTY; ASSIGNOR:MORGAN STANLEY SENIOR FUNDING, INC.; REEL/FRAME:036530/0142 EFFECTIVE DATE : 20150803
US7828116 BB	20150903	LSAS	AS	ASSIGNMENT	OWNER NAME : D B INDUSTRIES, LLC, MINNESOTA DESCRIPTION : RELEASE BY SECURED PARTY; ASSIGNOR:UBS AG, STAMFORD BRANCH; REEL/FRAME:036529/0847 EFFECTIVE DATE : 20150803

Title: RETRACTABLE ACCESS SYSTEM LADDER AND WORK MACHINE USING SAME

Abstract: Source: US2006070804A A work machine and work machine access ladder assembly are provided. The work machine includes a work machine body having an operator platform. A hinge mechanism is coupled to the work machine body and defines a hinge axis oriented diagonally with respect to a vertical line. The ladder may be rotated about the hinge axis between a use and a stowed position.

Classifications:

International (IPC 8-9): B60R3/02 E06C5/00

E06C5/02 (Advanced/Invention);

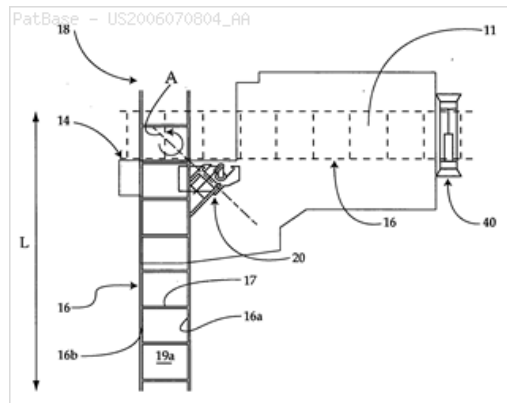
B60R3/00 E06C5/00 (Core/Invention)

International (IPC 1-7): B60R3/02 E06C5/02

CPC: B60R3/02 E02F9/0833 E06C5/02 E06C5/04

European: B60R3/02 E02F9/08B E06C5/02 E06C5/04

US: 182/127 182/129 182/86 182/97



Family:

Publication number	Publication date	Application number	Application date
AU2005290239 AA	20060406	AU20050290239	20050726
AU2005290239 BB	20110331	AU20050290239	20050726
DE112005002378 T5	20070823	DE200511002378	20050726
US2006070804 AA	20060406	US20040950956	20040927
US7870932 BB	20110118	US20040950956	20040927
WO06036279 A1	20060406	WO2005US26485	20050726

Priority:

US20040950956 20040927 WO2005US26485 20050726 WO2005US26485 20050726

Probable Assignee: CATERPILLAR INC

Assignee(s): (std): BEAUPRE ERIC J ; CATERPILLAR INC ; LAPKE ROBERT A ; SCHEIDENHELM KURT J

Inventor(s): (std): BEAUPRE ERIC J ; LAPKE ROBERT A ; SCHEIDENHELM KURT J

Inventor(s): BEAUPRE ERIC ; ROBERT A LAPKE ; SCHEIDENHELM KURT ; ERIC J BEAUPRE ; KURT J SCHEIDENHELM ; LAPKE ROBERT

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; HERBERT SMITH FREEHILLS; MICHAEL B MCNEIL LIELL AND MCNEIL ATTORNEYS PC; LIELL AND MCNEIL

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

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
AU2005290239 AA	20060406	LSPB	+	published / reissued	
AU2005290239 AA	20110728	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2005290239 BB	20110331	LSGT	+	granted / extensions (spc, cpc, pte)	
DE112005002378 T5	20070823	LSPB	+	published / reissued	
DE112005002378 T5	20100520	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	
US2006070804 AA	20060406	LSPB	+	published / reissued	
US2006070804 AA	20040927	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR, INC., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:LAPKE, ROBERT A.; SCHEIDENHELM, KURT J.; BEAUPRE, ERIC J.; REEL/FRAME:015839/0392;

					SIGNING DATES FROM 20040827 TO 20040916
US7870932 BB	20110118	LSGT	+	granted / extensions (spc, cpc, pte)	
US7870932 BB	20040927	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR, INC., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:LAPKE, ROBERT A.; SCHEIDENHELM, KURT J.; BEAUPRE, ERIC J.; REEL/FRAME:015839/0392; SIGNING DATES FROM 20040827 TO 20040916
US7870932 BB	20040927	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR, INC., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:LAPKE, ROBERT A.; SCHEIDENHELM, KURT J.; BEAUPRE, ERIC J.; SIGNING DATES FROM 20040827 TO 20040916; REEL/FRAME:015839/0392
US7870932 BB	20101228	LSGT	PAT1	Patented Case	
US7870932 BB	20140624	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
WO06036279 A1	20060406	LSPB	+	published / reissued	
WO06036279 A1	20070226	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005290239 COUNTRY OF REF DOCUMENT : AU
WO06036279 A1	20070322	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2005290239 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20050726 KIND CODE OF REF DOCUMENT : A
WO06036279 A1	20070322	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005290239 COUNTRY OF REF DOCUMENT : AU
WO06036279 A1	20070330	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1120050023788 COUNTRY OF REF DOCUMENT : DE

Title: VEHICLE ACCESS SYSTEM

Abstract: Source: US2009038885A A vehicle access system and method with retractable access means (10) e.g. ladder or stairs and a retracting mechanism (25) therefor. Force applied to the access means is sufficient to retract the access means from a fully deployed position to a partially retracted position but not sufficient to not be physically resisted by a user during at least part of the retraction. With the access means in a fully retracted position, force exerted on the retracted access means can be sufficient to hold the access means in a retracted position without the need for auxiliary restraining means.

Classifications:

International (IPC 8-9): B60R3/02 B65D25/22 E02F9/00 E06C5/04 E06C5/06 E06C7/02 (Advanced/Invention);

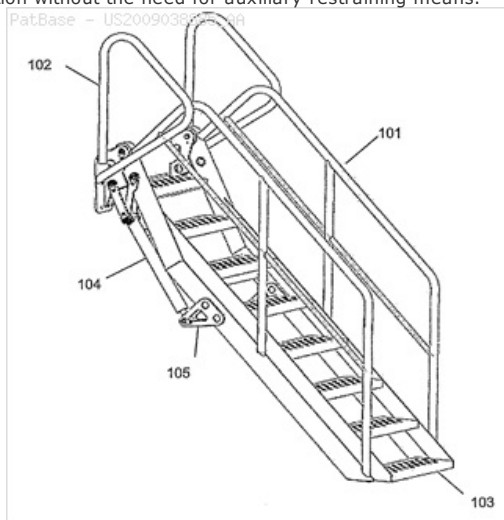
B60R3/00 B65D25/22 E02F9/00 E06C5/00 (Core/Invention);

B60R B65D E06C (Subclass/Invention)

CPC: B60R3/02 E06C5/04 E06C7/02 E06C5/06

European: B60R3/02 E06C5/06

US: 1/1 182/64.1 182/97 182/97P 280/163 280/163S

**Family:**

Publication number	Publication date	Application number	Application date
AU2006257721 AA	20061221	AU20060257721	20060616
AU2013200159 AA	20130131	AU20130200159	20130111
AU2016206398 AA	20160811	AU20160206398	20160722
CA2613099 AA	20071221	CA20062613099	20060616
CA2613099 C	20140520	CA20062613099	20060616
CN101218412 A	20080709	CN200680021558	20060616
CN101218412 B	20120530	CN200680021558	20060616
DE602006036031 D1	20130627	DE200660036031T	20060616
EP1896682 A1	20080312	EP20060741252	20060616
EP1896682 A4	20101020	EP20060741252	20060616
EP1896682 B1	20130501	EP20060741252	20060616
ES2424680 T3	20131007	ES20060741252T	20060616
JP2008546576 T2	20081225	JP20080516078T	20060616
JP5081819 B2	20121128	JP20080516078T	20060616
US2009038885 AA	20090212	US20060917701	20060616
US2016108672 AA	20160421	US20150982279	20151229
US9238941 BB	20160119	US20060917701	20060616
WO06133513 A1	20061221	WO2006AU00846	20060616
ZA200710876 A	20080730	ZA20070010876	20071214

Priority:

AU20050903162	20050616	AU20060257721	20060616	AU20130200159	20130129
EP20060741252	20060616	AU20130200159	20130111	AU20160206398	20160722
WO2006AU00846	20060616	US20080917701	20080523	US20150982279	20151229

Probable Assignee: BARJOH PTY LTD

Assignee(s): (std): BARJOH PTY LTD ; ELLEMENT NATHAN JOHN

Assignee(s): BARJOH PTY LTD OAKFORD

Inventor(s): (std): ELLEMENT NATHAN JOHN ; JOHN ELLEMENT NATHAN

Inventor(s): NATHAN JOHN ELLEMENT ; ELLEMENT NATHAN JOHN OAKFORD

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MILLER THOMSON LLP; SCHUMACHER AND WILLSAU PATENTANWALTSGESELLSCHAFT MBH; HARRISON GODDARD FOOTE; UNGRIA JAVIER; CRAWFORD MAUNU PLLC

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2006257721 AA	20061221	LSPB	+	published / reissued	
AU2006257721 AA	20130207	LSLE	-MK5	APPLICATION LAPSED SECTION	

					142(2)(E) - PATENT REQUEST AND COMPL. SPECIFICATION NOT ACCEPTED	
AU2013200159 AA	20130131	LSPB	+	published / reissued		
AU2013200159 AA	20160818	LSLE	-MK5	APPLICATION LAPSED SECTION 142(2)(E) - PATENT REQUEST AND COMPL. SPECIFICATION NOT ACCEPTED		
AU2016206398 AA	20160811	LSPB	+	published / reissued		
CA2613099 AA	20071221	LSPB	+	published / reissued		
CA2613099 AA	20071221	LSNP	+AFNE	NATIONAL PHASE ENTRY		
CA2613099 AA	20110616	LSES	+EEER	EXAMINATION REQUEST		
CA2613099 AA	20110704	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20110616	
CA2613099 C	20140520	LSGT	+	granted / extensions (spc, cpc, pte)		
CN101218412 A	20080709	LSPB	+	published / reissued		
CN101218412 A	20080709	LSPB	+C06	PUBLICATION		
CN101218412 A	20120530	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL		
CN101218412 B	20120530	LSGT	+	granted / extensions (spc, cpc, pte)		
EP1896682 A1	20080312	LSPB	+	published / reissued		
EP1896682 A1	20080312	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20080114	
EP1896682 A1	20101020	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20100922	
EP1896682 A1	20130501	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D	
EP1896682 A1	20130515	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP	
EP1896682 A1	20130515	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 610068 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20130515	
EP1896682 A1	20130522	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D	
EP1896682 A1	20130627	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602006036031 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130627	
EP1896682 A1	20130915	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 610068 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20130501	
EP1896682 A1	20130918	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3	
EP1896682 A1	20131007	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2424680 COUNTRY OF REF DOCUMENT : ES	

					KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20131007
EP1896682 A1	20131025	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP1896682 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130501
EP1896682 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130901
EP1896682 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130902
EP1896682 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130802
EP1896682 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130501
EP1896682 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130501
EP1896682 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130801
EP1896682 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130501
EP1896682 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130501
EP1896682 A1	20131231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE

				NAT. OFFICE TO EPO	WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130501
EP1896682 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130501
EP1896682 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130501
EP1896682 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130501
EP1896682 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130501
EP1896682 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130501
EP1896682 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130501
EP1896682 A1	20140131	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1896682 A1	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130501
EP1896682 A1	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130501
EP1896682 A1	20140326	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1896682 A1	20140409	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20140204
EP1896682 A1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130630
EP1896682 A1	20140430	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT :

EP1896682 A1	20140430	LSLE	-PG25	CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130630 COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130616
EP1896682 A1	20140515	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602006036031 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140204
EP1896682 A1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130501
EP1896682 A1	20150630	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 10
EP1896682 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130616
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EP1896682 A1	20160516	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 11
EP1896682 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160510 YEAR OF FEE PAYMENT : 11
EP1896682 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160607 YEAR OF FEE PAYMENT : 11
EP1896682 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20160609 YEAR OF FEE PAYMENT : 11
EP1896682 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160615 YEAR OF FEE PAYMENT : 11
EP1896682 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160610 YEAR OF FEE PAYMENT : 11
EP1896682 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160516 YEAR OF FEE PAYMENT : 11
EP1896682 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20160613 YEAR OF FEE PAYMENT : 11
EP1896682 A1	20170613	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 12
EP1896682 B1	20130501	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2424680 T3	20131007	LSGT	+	granted /	

JP2008546576 T2	20081225	LSPB	+	extensions (spc, cpc, pte) published / reissued	
JP5081819 B2	20121128	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5081819 B2	20090616	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20090615
JP5081819 B2	20110914	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20110913
JP5081819 B2	20120313	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20120312
JP5081819 B2	20120418	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20120417
JP5081819 B2	20120714	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20120713
JP5081819 B2	20120806	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP5081819 B2	20120815	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20120814
JP5081819 B2	20120816	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP5081819 B2	20120906	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20120903
JP5081819 B2	20120907	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP5081819 B2	20120907	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP5081819 B2	20150908	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5081819 B2	20161213	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
US2009038885 AA	20090212	LSPB	+	published / reissued	
US2009038885 AA	20081124	LSAS	AS	ASSIGNMENT	OWNER NAME : BARJOH PTY LTD, AUSTRALIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ELLEMENT, NATHAN JOHN; REEL/FRAME:021884/0218 EFFECTIVE DATE : 20080827
US2016108672 AA	20160421	LSPB	+	published / reissued	
US2016108672 AA	20151229	LSAS	AS	ASSIGNMENT	OWNER NAME : BARJOH PTY LTD, AUSTRALIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ELLEMENT, NATHAN JOHN; REEL/FRAME:037374/0585 EFFECTIVE DATE : 20080827
US2016108672 AA	20161031	LSES	NFA1	Non Final Action Mailed	
US9238941 BB	20160119	LSGT	+	granted / extensions (spc, cpc, pte)	

US9238941 BB	20151229	LSGT	PAT1	Patented Case	
WO06133513 A1	20061221	LSPB	+	published / reissued	
WO06133513 A1	20071213	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006257721 COUNTRY OF REF DOCUMENT : AU
WO06133513 A1	20071214	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008516078 COUNTRY OF REF DOCUMENT : JP
WO06133513 A1	20071214	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007/10876 COUNTRY OF REF DOCUMENT : ZA
WO06133513 A1	20071217	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200680021558.1 COUNTRY OF REF DOCUMENT : CN
WO06133513 A1	20071218	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO06133513 A1	20071218	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE
WO06133513 A1	20071221	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2613099 COUNTRY OF REF DOCUMENT : CA
WO06133513 A1	20080110	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2006257721 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20060616 KIND CODE OF REF DOCUMENT : A
WO06133513 A1	20080110	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2006257721 COUNTRY OF REF DOCUMENT : AU
WO06133513 A1	20080114	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006741252 COUNTRY OF REF DOCUMENT : EP
WO06133513 A1	20080312	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2006741252 COUNTRY OF REF DOCUMENT : EP
WO06133513 A1	20080523	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11917701 COUNTRY OF REF DOCUMENT : US
ZA200710876 A	20080730	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: ACCESS DEVICE

Abstract: Source: US2009065301A An access system (10) for earthmoving equipment to allow a person to move from ground level to an elevated position, said access system having an access means (20) mounted to the earthmoving equipment via a pivot, and a retraction mechanism (50) therefor, said pivot allowing the access means to be retracted through a compound angle from a downwardly and outwardly deployed position to a retracted position generally adjacent and aligned beside the vehicle, the access means may be collapsible, such as with steps (30) pivotably mounted to the sides of the access means via secondary pivots (62).

Classifications:

International (IPC 8-9): B60R3/00 B60R3/02 E02F9/08 E06C5/00 E06C5/02 E06C5/04 E06C5/06 E06C5/40 E06C5/42

E06C7/18 (Advanced/Invention);

B60R3/00 E06C5/00 (Core/Invention);

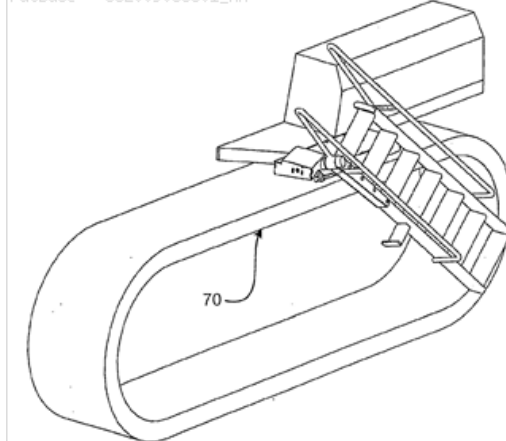
B60R E06C (Subclass/Invention)

CPC: B60R3/02 E02F9/0833 E06C5/02 E06C7/181

European: B60R3/02 E02F9/08B E06C5/02 E06C7/18B

US: 1/1 182/127 280/166 280/166S

PatBase - US2009065301_AA

**Family:**

Publication number	Publication date	Application number	Application date
AT466751 E	20100515	AT20060817556T	20061129
AU2006319744 AA	20070607	AU20060319744	20061129
AU2006319744 BB	20120308	AU20060319744	20061129
CA2631691 AA	20080530	CA20062631691	20061129
CA2631691 C	20150210	CA20062631691	20061129
CN101321648 A	20081210	CN200680045177	20061129
CN101321648 B	20110209	CN200680045177	20061129
DE602006014191 D1	20100617	DE200660014191T	20061129
EP1954529 A1	20080813	EP20060817556	20061129
EP1954529 A4	20090107	EP20060817556	20061129
EP1954529 B1	20100505	EP20060817556	20061129
ES2350885 T3	20110127	ES20060817556T	20061129
JP2009517265 T2	20090430	JP20080542558T	20061129
JP2013032162 A2	20130214	JP20120253040	20121119
JP5828831 B2	20151209	JP20120253040	20121119
US2009065301 AA	20090312	US20060095454	20061129
US9145091 BB	20150929	US20060095454	20061129
WO07062464 A1	20070607	WO2006AU01807	20061129
ZA200804437 A	20090325	ZA20080004437	20080522

Priority:

AU20050906765	20051202	AU20060319744	20061129	AU20060903004	20060602
WO2006AU01807	20061129	JP20080542558	20061129	JP20080542558T	20061129

Probable Assignee: BARJOH PTY LTD**Assignee(s):** (std): BARJOH PTY LTD ; ELLEMENT NATHAN JOHN**Inventor(s):** (std): ELLEMENT NATHAN JOHN ; JOHN ELLEMENT NATHAN ; ELLEMENT NATHAN**Inventor(s):** NATHAN JOHN ELLEMENT

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; GIERCZAK EUGENE J A; HARRISON GODDARD FOOTE; SEKIYA MITSUO; HIRAKI YUSUKE; CRAWFORD MAUNU PLLC

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 LI 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT466751 E	20100515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT466751 E	20101115	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	

AU2006319744 AA	20070607	LSPB	+	published / reissued	
AU2006319744 AA	20120705	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2006319744 BB	20120308	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2631691 AA	20080530	LSPB	+	published / reissued	
CA2631691 AA	20080530	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2631691 AA	20111027	LSES	+EEER	EXAMINATION REQUEST	
CA2631691 AA	20111102	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20111027
CA2631691 C	20150210	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101321648 A	20081210	LSPB	+	published / reissued	
CN101321648 A	20081210	LSPB	+C06	PUBLICATION	
CN101321648 A	20110209	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101321648 B	20110209	LSGT	+	granted / extensions (spc, cpc, pte)	
DE602006014191 D1	20110526	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
EP1954529 A1	20080813	LSPB	+	published / reissued	
EP1954529 A1	20080813	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20080604
EP1954529 A1	20090107	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20081204
EP1954529 A1	20090422	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20090319
EP1954529 A1	20100505	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1954529 A1	20100514	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1954529 A1	20100526	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1954529 A1	20100811	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP1954529 A1	20101025	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	REF COUNTRY CODE : EP EFFECTIVE DATE : 20100505
EP1954529 A1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO

				INFORM. FROM NAT. OFFICE TO EPO	SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100905
EP1954529 A1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20101231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100602
EP1954529 A1	20101231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100806
EP1954529 A1	20101231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20110127	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A EFFECTIVE DATE : 20110117
EP1954529 A1	20110131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20110131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20110131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100906
EP1954529 A1	20110228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505

EP1954529 A1	20110228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20110228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20110228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20110331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20110413	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20110208
EP1954529 A1	20110526	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602006014191 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20110207
EP1954529 A1	20110630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20101130
EP1954529 A1	20110630	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1954529 A1	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20101130
EP1954529 A1	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20101130
EP1954529 A1	20111031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20101129
EP1954529 A1	20120928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20101129
EP1954529 A1	20120928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO	COUNTRY OF REF DOCUMENT : HU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY

				EPO	THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20101106
EP1954529 A1	20120928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : TR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100505
EP1954529 A1	20130930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100805
EP1954529 A1	20150527	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP1954529 A1	20151130	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 10
EP1954529 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151202 YEAR OF FEE PAYMENT : 10
EP1954529 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20151130 YEAR OF FEE PAYMENT : 10
EP1954529 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151201 YEAR OF FEE PAYMENT : 10
EP1954529 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20151130 YEAR OF FEE PAYMENT : 10
EP1954529 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20151214 YEAR OF FEE PAYMENT : 10
EP1954529 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20151130 YEAR OF FEE PAYMENT : 10
EP1954529 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151130 YEAR OF FEE PAYMENT : 10
EP1954529 A1	20161216	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 11
EP1954529 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20161207 YEAR OF FEE PAYMENT : 11
EP1954529 A1	20170131	LSFE	+PGFP	POSTGRANT:	COUNTRY OF REF DOCUMENT :

				ANNUAL FEES PAID TO NATIONAL OFFICE	NL PAYMENT DATE : 20161201 YEAR OF FEE PAYMENT : 11
EP1954529 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20161201 YEAR OF FEE PAYMENT : 11
EP1954529 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20161206 YEAR OF FEE PAYMENT : 11
EP1954529 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20161216 YEAR OF FEE PAYMENT : 11
EP1954529 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20161130 YEAR OF FEE PAYMENT : 11
EP1954529 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20161213 YEAR OF FEE PAYMENT : 11
EP1954529 B1	20100505	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2350885 T3	20110127	LSGT	+	granted / extensions (spc, cpc, pte)	
JP2009517265 T2	20090430	LSPB	+	published / reissued	
JP2009517265 T2	20091126	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20091125
JP2009517265 T2	20111207	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20111206
JP2009517265 T2	20111207	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20111206
JP2009517265 T2	20120607	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20120606
JP2009517265 T2	20120718	LSRV	-A02	DECISION OF REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20120717
JP2009517265 T2	20121120	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20121119
JP2009517265 T2	20130104	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A911 EFFECTIVE DATE : 20121228
JP2009517265 T2	20130121	LSAL	-A912	REMOVAL OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A912 EFFECTIVE DATE : 20130118
JP2013032162 A2	20130214	LSPB	+	published / reissued	
JP2013032162 A2	20121220	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20121219
JP2013032162 A2	20121220	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20121219
JP2013032162 A2	20140115	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20140114
JP2013032162 A2	20140710	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523

					EFFECTIVE DATE : 20140709
JP2013032162 A2	20150107	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20150106
JP2013032162 A2	20150402	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20150402
JP2013032162 A2	20150915	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2013032162 A2	20150925	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20150924
JP2013032162 A2	20151029	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20151020
JP5828831 B2	20151209	LSGT	+	granted / extensions (spc, cpc, pte)	
US2009065301 AA	20090312	LSPB	+	published / reissued	
US2009065301 AA	20081231	LSAS	AS	ASSIGNMENT	OWNER NAME : BARJOH PTY, LTD, AUSTRALIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ELLEMENT, NATHAN JOHN; REEL/FRAME:022045/0303 EFFECTIVE DATE : 20080826
US9145091 BB	20150929	LSGT	+	granted / extensions (spc, cpc, pte)	
US9145091 BB	20150909	LSGT	PAT1	Patented Case	
WO07062464 A1	20070607	LSPB	+	published / reissued	
WO07062464 A1	20080519	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006319744 COUNTRY OF REF DOCUMENT : AU
WO07062464 A1	20080530	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008542558 COUNTRY OF REF DOCUMENT : JP
WO07062464 A1	20080530	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2631691 COUNTRY OF REF DOCUMENT : CA
WO07062464 A1	20080603	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO07062464 A1	20080604	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006817556 COUNTRY OF REF DOCUMENT : EP
WO07062464 A1	20080612	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2006319744 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20061129 KIND CODE OF REF DOCUMENT : A
WO07062464 A1	20080612	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2006319744 COUNTRY OF REF DOCUMENT : AU
WO07062464 A1	20080813	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2006817556 COUNTRY OF REF DOCUMENT : EP
WO07062464 A1	20080918	LSNP	+WWE	WIPO INFORMATION:	REF DOCUMENT NUMBER : 12095454

				ENTRY INTO NATIONAL PHASE	COUNTRY OF REF DOCUMENT : US
ZA200804437 A	20090325	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: ACCESS SYSTEM AND DEVICE FOR VEHICLES, AND MODES OF EMPLOYMENT THEREOF

Abstract: Source: US2011140389A A retractable access device (10) for a vehicle (30) having a longitudinal extent when deployed. The access device (steps, ladder, stairs) can have a multiplicity of treads (eg 10a, 10b, 10c...) interconnected in series by connectors (eg 12a, 13a, 14a...) pivotably mounted with respect to the treads, the connectors permitting the access device to contract and extend longitudinally and the treads to be closed together on retraction. The treads may nest together when retracted (3a-3d) and treads can be formed or fabricated in pairs, such that when retracted, a tread of one pair nests between the treads of another pair, and this can be effected for multiple tread pairs. The access device is particularly suited to grader vehicles with limited and awkward cab access and space for access system deployment, not least due to the grader blade arrangement.

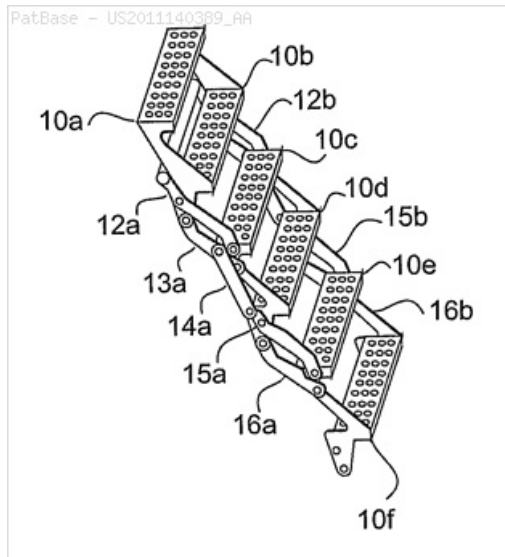
Classifications:

International (IPC 8-9): B60R3/02 E06C5/04 E06C5/16 E06C5/26 (Advanced/Invention)

CPC: E06C5/28

European: E06C5/28

US: 182/127 280/163 280/166 280/166P



Family:

Publication number	Publication date	Application number	Application date
AP201005406 A0	20101031	AP20100005406	20090313
AP2864 A	20140331	AP20100005406	20090313
AU2009225940 AA	20090924	AU20090225940	20090313
AU2009225940 BB	20140612	AU20090225940	20090313
BRPI0908736 A2	20150721	BR2009PI08736	20090313
CA2718809 AA	20090924	CA20092718809	20090313
CA2718809 C	20161220	CA20092718809	20090313
CO6311026 A2	20110822	CO20100128481	20101015
US2011140389 AA	20110616	US20090922990	20090313
US8668216 BB	20140311	US20090922990	20090313
WO09114897 A1	20090924	WO2009AU00296	20090313

Priority:

AU20080901284 20080317 AU20090225940 20090313 WO2009AU00296 20090313

Probable Assignee: BARJOH PTY LTD

Assignee(s): (std): BARJOH PTY LTD ; ELLEMENT NATHAN JOHN

Inventor(s): (std): ELLEMENT NATHAN JOHN

Inventor(s): NATHAN JOHN ELLEMENT

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; GIERCZAK EUGENE J A; SILVANA MARIA LOPEZ DIAZ; CASCIO AND ZERVAS; WATERMARK PATENT AND TRADE MARK ATTORNEYS

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AP2864 A	20140331	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2009225940 AA	20090924	LSPB	+	published / reissued	
AU2009225940 AA	20141009	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2009225940 BB	20140612	LSGT	+	granted /	

BRPI0908736 A2	20150721	LSPB	+	extensions (spc, cpc, pte)	
CA2718809 AA	20090924	LSPB	+	published / reissued	
CA2718809 AA	20140313	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20140306
CA2718809 C	20161220	LSGT	+	granted / extensions (spc, cpc, pte)	
CO6311026 A2	20110822	LSPB	+	published / reissued	
CO6311026 A2	20130627	LSGT	+FG	APPLICATION GRANTED	
US2011140389 AA	20110616	LSPB	+	published / reissued	
US2011140389 AA	20101130	LSAS	AS	ASSIGNMENT	OWNER NAME : BARJOH PTY, LTD, AUSTRALIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ELLEMENT, NATHAN JOHN; REEL/FRAME:025404/0011 EFFECTIVE DATE : 20101102
US8668216 BB	20140311	LSGT	+	granted / extensions (spc, cpc, pte)	
US8668216 BB	20140219	LSGT	PAT1	Patented Case	
US8668216 BB	20140722	LSRE	CC	CERTIFICATE OF CORRECTION	
WO09114897 A1	20090924	LSPB	+	published / reissued	
WO09114897 A1	20100917	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2718809 COUNTRY OF REF DOCUMENT : CA
WO09114897 A1	20100917	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2718809 COUNTRY OF REF DOCUMENT : CA
WO09114897 A1	20100918	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO09114897 A1	20100920	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2009225940 COUNTRY OF REF DOCUMENT : AU
WO09114897 A1	20101014	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2009225940 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20090313 KIND CODE OF REF DOCUMENT : A
WO09114897 A1	20101130	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12922990 COUNTRY OF REF DOCUMENT : US
WO09114897 A1	20110601	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 09723045 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1
WO09114897 A1	20150721	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0908736 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 EFFECTIVE DATE : 20100917

Title: ROAD MILLING MACHINE

Abstract: Source: US2010090517A The invention relates to a road-milling machine which has a ladder 11 to allow the driver's position 7 of the civil engineering machine to be climbed to easily. The ladder is mounted on one 1B of the two longitudinal sides of the frame 1 of the machine to be pivotable about an axis of pivot 27 extending substantially at right angles to the direction of travel. The ladder can thus be folded upwards to widen the working range of the machine. However, should the ladder not be in a state where it is folded upwards while the machine is being used to do work, the ladder cannot be damaged against obstacles which suddenly make an appearance in the working range. Should the ladder hit against an obstacle, the ladder is able to move out of the way of the obstacle by pivoting out of the vertical position in the opposite direction to the direction of travel. A further advantage of the ladder lies in the fact that the ladder can easily be folded upwards or downwards not only from the ground but also from the driver's position.

Classifications:

International (IPC 8-9): B60R3/02 E01C21/00 E01C23/088 E02F9/16 E06C5/04 E06C5/06 E21C47/00 (Advanced/Invention); E01C23/00 E06C5/00 (Core/Invention)

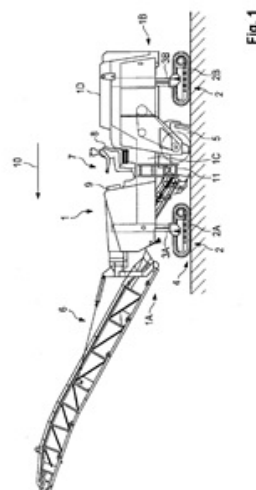
CPC: E01C23/088 B60R3/02 E06C5/04

European: B60R3/02 E01C23/088 E06C5/04

US: 182/127 182/127S 299/36.1 299/36.100P 299/39.4

PatBase - US2010090517_AA

Patent Application Publication Apr. 15, 2010 Sheet 1 of 7 US 2010/090517 A1



Family:

Publication number	Publication date	Application number	Application date
CN101718074 A	20100602	CN200910171941	20090922
CN101718074 B	20121031	CN200910171941	20090922
CN201713750 U	20110119	CN200920178141U	20090922
DE202008013393 U1	20100422	DE200820013393U	20081009
DE502009008902 D1	20140417	DE200950008902T	20091002
EP2175070 A2	20100414	EP20090012493	20091002
EP2175070 A3	20120118	EP20090012493	20091002
EP2175070 B1	20140305	EP20090012493	20091002
US2010090517 AA	20100415	US20090564202	20090922
US8186763 BB	20120529	US20090564202	20090922

Priority:

DE200820013393U 20081009 EP20090012493 20091002

Probable Assignee: WIRTGEN GMBH

Assignee(s): (std): BERNING CHRISTIAN ; BUSLEY PETER ; KRAMER THOMAS ; WIRTGEN GMBH

Inventor(s): (std): BERNING CHISTIAN ; BERNING CHRISTIAN ; BUSLEY PETER ; CHISTIAN BERNING ; KRAMER THOMAS ; PETER BUSLEY ; THOMAS KRAMER

Inventor(s): CHRISTIAN BERNING

Agent(s): OANDO OPPERMANN AND OPPERMANN LLP; LUDERSCHMIDT SCHUELER AND PARTNER; OPPERMANN FRANK; WADDEY AND PATTERSON PC; LUCIAN WAYNE

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CN101718074 A	20100602	LSPB	+	published / reissued	
CN101718074 A	20100602	LSPB	+C06	PUBLICATION	
CN101718074 A	20121031	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101718074 B	20121031	LSGT	+	granted / extensions (spc, cpc, pte)	

CN201713750 U	20110119	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201713750 U	20110119	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
DE202008013393 U1	20100422	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202008013393 U1	20100527	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20100527
DE202008013393 U1	20120301	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	EFFECTIVE DATE : 20120105
DE202008013393 U1	20141023	LSGT	+R151	TERM OF PROTECTION EXTENDED TO 8 YEARS	
DE202008013393 U1	20141204	LSGT	+R151	TERM OF PROTECTION EXTENDED TO 8 YEARS	EFFECTIVE DATE : 20141023
DE202008013393 U1	20161017	LSGT	+R152	TERM OF PROTECTION EXTENDED TO 10 YEARS	
EP2175070 A2	20100414	LSPB	+	published / reissued	
EP2175070 A2	20120118	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E01C 23/088 20060101AFI20111212BHEP
EP2175070 A2	20120118	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B60C 5/04 20060101ALI20111212BHEP
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EP2175070 A2	20130102	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20121206
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EP2175070 B1	20140305	LSGT	+	granted / extensions (spc, cpc, pte)	
US2010090517 AA	20100415	LSPB	+	published / reissued	
US2010090517 AA	20091105	LSAS	AS	ASSIGNMENT	OWNER NAME : WIRTGEN GMBH,GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KRAMER, THOMAS; BERNING, CHRISTIAN; BUSLEY, PETER; REEL/FRAME:023477/0828 EFFECTIVE DATE : 20091009
US2010090517 AA	20091105	LSAS	AS	ASSIGNMENT	OWNER NAME : WIRTGEN GMBH,GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KRAMER, THOMAS; BERNING, CHRISTIAN; BUSLEY, PETER; US-ASSIGNMENT DATABASE UPDATED:20100415; REEL/FRAME:23477/828 EFFECTIVE DATE : 20091009
US8186763 BB	20120529	LSGT	+	granted / extensions (spc, cpc, pte)	
US8186763 BB	20091105	LSAS	AS	ASSIGNMENT	OWNER NAME : WIRTGEN GMBH,GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KRAMER, THOMAS; BERNING, CHRISTIAN; BUSLEY, PETER; REEL/FRAME:023477/0828 EFFECTIVE DATE : 20091009
US8186763 BB	20091105	LSAS	AS	ASSIGNMENT	OWNER NAME : WIRTGEN GMBH, GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KRAMER, THOMAS; BERNING, CHRISTIAN; BUSLEY, PETER; REEL/FRAME:023477/0828 EFFECTIVE DATE : 20091009
US8186763 BB	20120509	LSGT	PAT1	Patented Case	
US8186763 BB	20151124	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

Title: POWERED OPERATOR ACCESS SYSTEM

Abstract: Source: US2010116590A An access ladder configurable from an extended position for providing access to a structure and a stowed position. The access ladder comprises an elongated first member having a first step extending laterally therefrom. An elongated second member is associated with the first member and configured for translational movement relative thereto and has a second step extending laterally therefrom. A link extends between the second member and the structure such that rotation of the first member moves the second member translationally relative to the first member, thereby moving said at least one second step towards said at least one first step.

Classifications:

International (IPC 8-9): B60R3/00 B60R3/02 B66C23/78 E02F9/16 E06C5/00 E06C5/04 E06C5/06 E06C9/00 (Advanced/Invention); B60R3/00 E06C5/00 (Core/Invention)

CPC: E02F9/0833 E02F9/2004 B60R3/02 E06C5/04 E06C5/06

European: B60R3/02 E06C5/04 E06C5/06

US: 182/127 182/207 182/208 182/86 182/93 182/97 182/97P 280/166 280/166S

PatBase - US2010116590_AA

Patent Application Publication May 13, 2010 Sheet 1 of 6 US 2010/0116590 A1

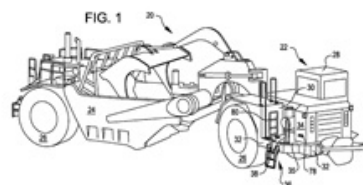
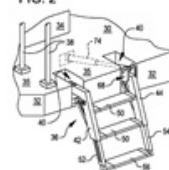


FIG. 2



Family:

Publication number	Publication date	Application number	Application date
AU2012363763 AA	20130711	AU20120363763	20121129
CN204151843 U	20150211	CN201290001111U	20121129
DE112012005568 T5	20141113	DE201211005568T	20121129
US2010116590 AA	20100513	US20080267295	20081107
US2012181109 AA	20120719	US20120314573	20120104
US8074768 BB	20111213	US20080267295	20081107
US8919497 BB	20141230	US20120314573	20120104
WO13103456 A1	20130711	WO2012US66988	20121129

Priority:

US20080267295 20081107 US20120314573 20120104 WO2012US66988 20121129

Probable Assignee: CATERPILLAR INC

Assignee(s): (std): CATERPILLAR INC ; RUND ANTHONY M

Inventor(s): (std): RUND ANTHONY M

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; LEYDIG VOIT AND MAYER LTD; LEYDIG VOIT AND MAYER; JOHN; MILLER MATTHIAS AND HULL; WAPPEL P JOHN ET AL

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2012363763 AA	20130711	LSPB	+	published / reissued	
AU2012363763 AA	20170622	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
CN204151843 U	20150211	LSGT	+	granted / extensions (spc, cpc, pte)	
CN204151843 U	20150211	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	

DE112012005568 T5	20141113	LSPB	+	published / reissued	
US2010116590 AA	20100513	LSPB	+	published / reissued	
US2010116590 AA	20081107	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR INC., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: RUND, ANTHONY M.; REEL/FRAME: 021806/0231 EFFECTIVE DATE : 20081023
US2010116590 AA	20081107	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR INC., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: RUND, ANTHONY M.; US-ASSIGNMENT DATABASE UPDATED: 20100513; REEL/FRAME: 21806/231 EFFECTIVE DATE : 20081023
US2012181109 AA	20120719	LSPB	+	published / reissued	
US2012181109 AA	20111208	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR INC., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: RUND, ANTHONY; REEL/FRAME: 027349/0298 EFFECTIVE DATE : 20111207
US8074768 BB	20111213	LSGT	+	granted / extensions (spc, cpc, pte)	
US8074768 BB	20081107	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR INC., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: RUND, ANTHONY M.; REEL/FRAME: 021806/0231 EFFECTIVE DATE : 20081023
US8074768 BB	20081107	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR INC., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: RUND, ANTHONY M.; REEL/FRAME: 021806/0231 EFFECTIVE DATE : 20081023
US8074768 BB	20111122	LSGT	PAT1	Patented Case	
US8074768 BB	20150526	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8919497 BB	20141230	LSGT	+	granted / extensions (spc, cpc, pte)	
US8919497 BB	20141210	LSGT	PAT1	Patented Case	
WO13103456 A1	20130711	LSPB	+	published / reissued	
WO13103456 A1	20140605	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2012363763 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20121129 KIND CODE OF REF DOCUMENT : A
WO13103456 A1	20150128	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12864185 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1

Legal status (INPADOC)
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Patent	Date recorded	Event group	Code	Event	Details
AU2011217736 AA	20110825	LSPB	+	published / reissued	
AU2011217736 AA	20170302	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2011217736 BB	20161103	LSGT	+	granted / extensions (spc, cpc, pte)	
BR112012020916 A2	20160503	LSPB	+	published / reissued	
CA2781575 AA	20110825	LSPB	+	published / reissued	
CA2781575 AA	20160104	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20151217
CA2781575 C	20170509	LSGT	+	granted / extensions (spc, cpc, pte)	
CL2012002156 A1	20130111	LSPB	+	published / reissued	
CL52767 B	20160720	LSGT	+	granted / extensions (spc, cpc, pte)	
CO6551701 A2	20121031	LSPB	+	published / reissued	
CO6551701 A2	20131017	LSGT	+FG	APPLICATION GRANTED	
EP2536912 A1	20121226	LSPB	+	published / reissued	
EP2536912 A1	20121226	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20120802
EP2536912 A1	20130703	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20130605
EP2536912 A1	20130703	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E06C 5/02 20060101ALI20130530BHEP
EP2536912 A1	20130703	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E06C 1/38 20060101AFI20130530BHEP
EP2536912 A1	20130703	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B60R 3/02 20060101ALI20130530BHEP
EP2536912 A1	20140611	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20140508
EP2536912 A1	20150610	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20150515
EP2536912 A1	20151007	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2536912 A1	20151015	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2536912 A1	20151015	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 753879 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20151015
EP2536912 A1	20151104	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D

EP2536912 A1	20151119	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602011020345 COUNTRY OF REF DOCUMENT : DE
EP2536912 A1	20160108	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 6
EP2536912 A1	20160215	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 753879 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20151007
EP2536912 A1	20160225	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2536912 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IS NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160207
EP2536912 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160107
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EP2536912 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
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EP2536912 A1	20160429	LSFE	+PGFP	POSTGRANT:	COUNTRY OF REF DOCUMENT :

				ANNUAL FEES PAID TO NATIONAL OFFICE	DE PAYMENT DATE : 20160209 YEAR OF FEE PAYMENT : 6
EP2536912 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160108
EP2536912 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160208
EP2536912 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20160229
EP2536912 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160210 YEAR OF FEE PAYMENT : 6
EP2536912 A1	20160531	LSFE	+PGFP	POSTGRANT:	COUNTRY OF REF DOCUMENT :

				ANNUAL FEES PAID TO NATIONAL OFFICE	FR PAYMENT DATE : 20160108 YEAR OF FEE PAYMENT : 6
EP2536912 A1	20160708	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602011020345 COUNTRY OF REF DOCUMENT : DE
EP2536912 A1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
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EP2536912 A1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
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EP2536912 A1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160914	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20160708
EP2536912 A1	20160930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151007
EP2536912 A1	20160930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160216
EP2536912 A1	20160930	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL

EP2536912 A1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20160229
EP2536912 A1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20160229
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EP2536912 A1	20170126	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 7
EP2536912 A1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20160216
EP2536912 A1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170207 YEAR OF FEE PAYMENT : 7
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EP2536912 A1	20170531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170215 YEAR OF FEE PAYMENT : 7
EP2536912 B1	20151007	LSGT	+	granted / extensions (spc, cpc, pte)	
JP2013519577 T2	20130530	LSPB	+	published / reissued	
JP2013519577 T2	20140215	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20140214
JP2013519577 T2	20140215	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20140214
JP2013519577 T2	20141119	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20141118
JP2013519577 T2	20150519	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20150518
JP2013519577 T2	20151110	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2013519577 T2	20151118	LSGT	+A01	WRITTEN	DESCRIPTION : JAPANESE

				DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20151117
JP2013519577 T2	20151203	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20151130
JP5849055 B2	20160127	LSGT	+	granted / extensions (spc, cpc, pte)	
US2013008743 AA	20130110	LSPB	+	published / reissued	
US2013008743 AA	20121012	LSAS	AS	ASSIGNMENT	OWNER NAME : JUSTOY PTY LTD, AUSTRALIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEDLEY, ROBERT IAN; REEL/FRA:029119/0632 EFFECTIVE DATE : 20120614
US9447638 BB	20160920	LSGT	+	granted / extensions (spc, cpc, pte)	
US9447638 BB	20160422	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US9447638 BB	20160831	LSGT	PAT1	Patented Case	
WO11100794 A1	20110825	LSPB	+	published / reissued	
WO11100794 A1	20120516	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2011217736 COUNTRY OF REF DOCUMENT : AU
WO11100794 A1	20120523	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2781575 COUNTRY OF REF DOCUMENT : CA
WO11100794 A1	20120531	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2012553149 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A
WO11100794 A1	20120531	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2012553149 COUNTRY OF REF DOCUMENT : JP
WO11100794 A1	20120607	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2011217736 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20110216 KIND CODE OF REF DOCUMENT : A
WO11100794 A1	20120706	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13521020 COUNTRY OF REF DOCUMENT : US
WO11100794 A1	20120817	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO11100794 A1	20160503	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 112012020916 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 EFFECTIVE DATE : 20120817
ZA201203643 A	20130130	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: ACCESS SYSTEM AND DEVICE FOR EARTHMOVING VEHICLES, AND MODES OF EMPLOYMENT THEREOF

Abstract: Source: US2013193667A An access system for a vehicle (42) has an access device (40) (such as a stair or ladder), an actuation mechanism for extending and retracting the access device, the access device being extendible from a contracted configuration for deployment to permit access to the equipment and retractable to a contracted configuration for normal operation of the equipment by the actuation mechanism. The access device has a multiplicity of treads to support a user thereof during use, the treads being connected such that the access device retracts by contracting with treads closing together, and wherein the actuation mechanism includes an actuation ram (50) (hydraulic, pneumatic) and linkages (52, 64, 66), and at least one pivot (68) with at least one respective pivot axis about which the access device rotates during retraction or deployment effected by operation of the ram. Thus the access device not only retracts and extends but rotates backwards for stowage under a cab or chassis of the vehicle when retracting. A deployment assistor (90), such as a gas strut, can be used to assist gravity actuated deploy of the access device.

Classifications:

International (IPC 8-9): B60R3/02 E04F11/06 E06C1/52 E06C1/54 E06C5/28 (Advanced/Invention);

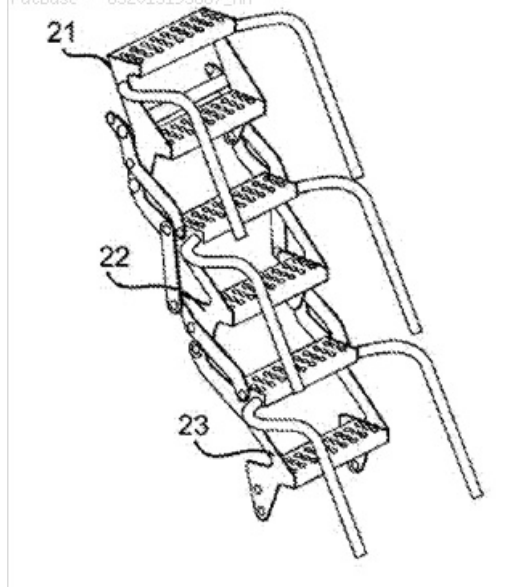
B60R E04F E06C (Subclass/Invention)

CPC: B60R3/02 E04F2011/0209 E06C1/54 E06C5/28 E06C7/081 E02F9/0833

European: B60R3/02 E06C1/54 E06C5/28 E06C7/08A P04F11/02T1D

US: 280/166

PatBase - US2013193667_AA



Family:

Publication number	Publication date	Application number	Application date
AP201206515 A0	20121031	AP20120006515	20110322
AU2011232300 AA	20110929	AU20110232300	20110322
BR112012024140 A2	20160628	BR20121124140	20110322
CA2793931 AA	20110929	CA20112793931	20110322
CL2012002618 A1	20130111	CL20120002618	20120921
CO6640288 A2	20130322	CO20120172667	20121002
US2013193667 AA	20130801	US20110635908	20110322
WO11116415 A1	20110929	WO2011AU00323	20110322
ZA201207654 A	20130626	ZA20120007654	20121011

Priority:

AU20100901216 20100322 AU20110232300 20110322 WO2011AU00323 20110322

Probable Assignee: BARJOH PTY LTD

Assignee(s): (std): BARJOH PTY LTD ; ELLEMENT NATHAN JOHN

Inventor(s): (std): ELLEMENT NATHAN JOHN

Inventor(s): NATHAN JOHN ELLEMENT

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MILLER THOMSON LLP; PORZIO RIOS AND ASOCIADOS; SILVANA MARIA LOPEZ DIAZ

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 RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2011232300 AA	20110929	LSPB	+	published / reissued	
AU2011232300 AA	20151015	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
BR112012024140 A2	20160628	LSPB	+	published / reissued	
BR112012024140 A2	20160712	LSRV	-B11A	DISMISSAL ACC. ART.33 OF IPL - EXAMINATION NOT	

BR112012024140 A2	20170404	LSRV	-B11Y	REQUESTED WITHIN 36 MONTHS OF FILING DEFINITIVE DISMISSAL ACC. ARTICLE 33 OF IPL - EXTENSION OF TIME LIMIT FOR REQUEST OF EXAMINATION EXPIRED	
CA2793931 AA	20110929	LSPB	+	published / reissued	
CA2793931 AA	20150519	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20150324
CL2012002618 A1	20130111	LSPB	+	published / reissued	
CO6640288 A2	20130322	LSPB	+	published / reissued	
CO6640288 A2	20140408	LSRV	-FC	APPLICATION REFUSED	
US2013193667 AA	20130801	LSPB	+	published / reissued	
US2013193667 AA	20121123	LSAS	AS	ASSIGNMENT	OWNER NAME : BARJOH PTY LTD., AUSTRALIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ELLEMENT, NATHAN JOHN; REEL/FRAME:029343/0800 EFFECTIVE DATE : 20121120
US2013193667 AA	20140323	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO11116415 A1	20110929	LSPB	+	published / reissued	
WO11116415 A1	20120921	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2793931 COUNTRY OF REF DOCUMENT : CA
WO11116415 A1	20120924	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO11116415 A1	20120924	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2011232300 COUNTRY OF REF DOCUMENT : AU
WO11116415 A1	20121018	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2011232300 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20110322 KIND CODE OF REF DOCUMENT : A
WO11116415 A1	20121123	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13635908 COUNTRY OF REF DOCUMENT : US
WO11116415 A1	20160628	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 112012024140 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 EFFECTIVE DATE : 20120924
ZA201207654 A	20130626	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: AUFSTIEGE FUER EINE ARBEITSMASCHINE LADDER FOR A WORK MACHINE

Abstract: The working machine comprises a load-bearing structure movable in a forward direction, and a cabin fastened at the supporting structure, which has an operator workstation. A climbing unit (38) is provided, which is moved opposite to the machine-fixed platform (42) between an operating position and an inoperative position. The climbing unit is supported on the bearing structure rotating around a vertical axis of rotation (40).

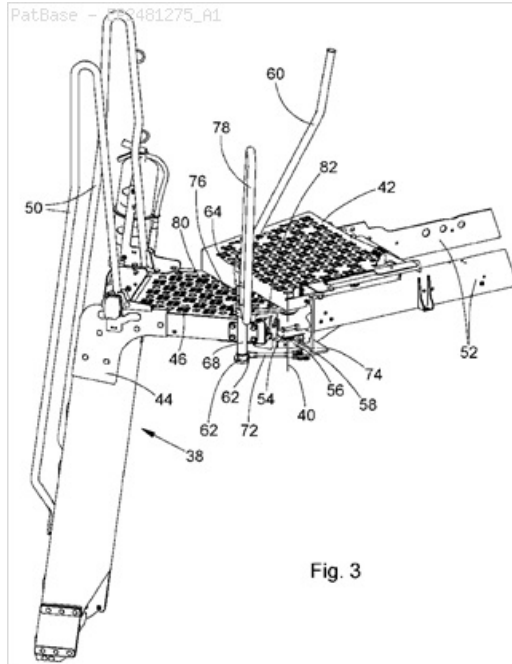
Classifications:

International (IPC 8-9): A01D41/02 A01D41/12

B60R3/02 (Advanced/Invention)

CPC: A01D41/1261 B60R3/02

European: A01D41/12L B60R3/02



Family:

Publication number	Publication date	Application number	Application date
DE102011003354 A1	20120802	DE201110003354	20110131
DE502011005379 D1	20150219	DE201150005379T	20111206
EP2481275 A1	20120801	EP20110192078	20111206
EP2481275 B1	20141224	EP20110192078	20111206

Priority:

DE201110003354 20110131 EP20110192078 20111206

Probable Assignee: DEERE AND CO

Assignee(s): (std): DEERE AND CO

Assignee(s): DEERE AND CO MOLINE ; DEERE AND COMPANY

Inventor(s): (std): FUCHS VOLKER

Agent(s): HOLST SOENKE

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102011003354 A1	20120802	LSPB	+	published / reissued	
DE102011003354 A1	20160802	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
EP2481275 A1	20120801	LSPB	+	published / reissued	
EP2481275 A1	20130313	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20130201
EP2481275 A1	20140903	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20140808
EP2481275 A1	20141224	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D TEXT : NOT ENGLISH
EP2481275 A1	20141231	LSNP	REG	REFERENCE TO A	REF COUNTRY CODE : CH

				NATIONAL CODE	REF LEGAL EVENT CODE : EP
EP2481275 A1	20150114	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D TEXT : LANGUAGE OF EP DOCUMENT: GERMAN
EP2481275 A1	20150115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 702634 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20150115
EP2481275 A1	20150219	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502011005379 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20150219
EP2481275 A1	20150429	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20141224
EP2481275 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
EP2481275 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150324
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EP2481275 A1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
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EP2481275 A1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
EP2481275 A1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : HR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT

				POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
EP2481275 A1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
EP2481275 A1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
EP2481275 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
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EP2481275 A1	20150831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
EP2481275 A1	20150831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150424
EP2481275 A1	20150925	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER :

					502011005379 COUNTRY OF REF DOCUMENT : DE
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EP2481275 A1	20151202	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20150925
EP2481275 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151119 YEAR OF FEE PAYMENT : 5
EP2481275 A1	20160229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
EP2481275 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20151228 YEAR OF FEE PAYMENT : 5
EP2481275 A1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
EP2481275 A1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20151206
EP2481275 A1	20160729	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP2481275 A1	20160824	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20151206
EP2481275 A1	20160921	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2481275 A1	20160930	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20160831
EP2481275 A1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20151231
EP2481275 A1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20151206
EP2481275 A1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20151231

EP2481275 A1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20151206
EP2481275 A1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20151231
EP2481275 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20161121 YEAR OF FEE PAYMENT : 6
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EP2481275 A1	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
EP2481275 A1	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT; INVALID AB INITIO LAPSED DATE : 20111206
EP2481275 A1	20170531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20161227 YEAR OF FEE PAYMENT : 6
EP2481275 A1	20170630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141224
EP2481275 B1	20141224	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: HINGED EXTENDABLE CLIMBING AID

Abstract: Source: US2015076785A An extractable fold-down climbing aid for reaching an operator's cab or for climbing onto the walking deck of an undercarriage of a mobile device, for example a mobile crane, includes a stepladder, a holding mechanism in which the stepladder is held for transportation purposes and out of which the stepladder can be moved for use as a climbing aid, a guide for at least one end of the stepladder, which guide is formed by the holding mechanism or is connected to the holding mechanism. The guide and one end of the stepladder together form a joint in which the stepladder can be pivoted relative to the mobile device, and the stepladder is a telescoping stepladder with at least an inner and an outer slide-out element, and the holding mechanism is connected or can be connected to the mobile device.

Classifications:

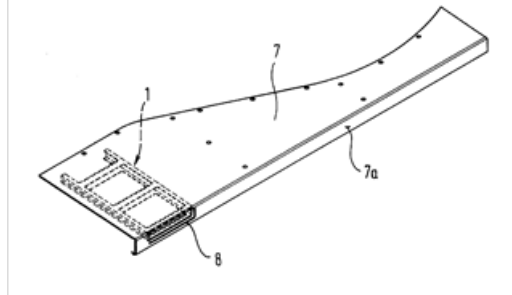
International (IPC 8-9): B60R3/00 B60R3/02 B66C15/00 E06C1/00 E06C5/02 (Advanced/Invention)

CPC: B60R3/02 E06C1/005 E06C5/02

European: E06C1/00B E06C5/02

US: 280/166

PatBase - US2015076785_AA



Family:

Publication number	Publication date	Application number	Application date
CN104245425 A	20141224	CN201380020364	20130315
DE202012003977 U1	20120809	DE201220003977U	20120418
EP2838762 A1	20150225	EP20130710391	20130315
IN02109KN2014 A	20150206	IN2014KN02109	20141007
JP2015516332 T2	20150611	JP20150506138T	20130315
US2015076785 AA	20150319	US20130394951	20130315
WO13156219 A1	20131024	WO2013EP55391	20130315

Priority:

DE201220003977U 20120418 WO2013EP55391 20130315

Probable Assignee: MANITOWOC CRANE GROUP FRANCE SAS

Assignee(s): (std): MANITOWOC CRANE GROUP F SAS ; MANITOWOC CRANE GROUP FRANCE SAS

Inventor(s): (std): KOKOT DENNIS

Agent(s): SCHWABE SANDMAIR MARX; TAKEUCHI MIKIO; YAMADA TAKUJI; TANAKA MITSUO

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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN104245425 A	20141224	LSPB	+	published / reissued	
CN104245425 A	20141224	LSPB	+C06	PUBLICATION	
CN104245425 A	20161109	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
DE202012003977 U1	20120809	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202012003977 U1	20120809	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20120809
DE202012003977 U1	20150326	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PARTYTYPE : OWNER OWNER : MANITOWOC CRANE GROUP FRANCE SAS, FR OLDPARTY : FORMER OWNER : MANITOWOC CRANE GROUP FRANCE SAS, ECULLY, FR EFFECTIVE DATE : 20150216
DE202012003977 U1	20150504	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	
DE202012003977 U1	20150611	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6	EFFECTIVE DATE : 20150504

				YEARS		
EP2838762 A1	20150225	LSPB	+	published / reissued		
EP2838762 A1	20150225	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20141009	
EP2838762 A1	20160127	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20160105	
EP2838762 A1	20160309	LSWD	-18W	WITHDRAWN	EFFECTIVE DATE : 20160202	
IN02109KN2014 A	20150206	LSPB	+	published / reissued		
JP2015516332 T2	20150611	LSPB	+	published / reissued		
JP2015516332 T2	20151202	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20151201	
JP2015516332 T2	20160201	LSWD	-A761	WRITTEN WITHDRAWAL OF APPLICATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A761 EFFECTIVE DATE : 20160201	
US2015076785 AA	20150319	LSPB	+	published / reissued		
US2015076785 AA	20141110	LSAS	AS	ASSIGNMENT	OWNER NAME : MANITOWOC CRANE GROUP FRANCE SAS, FRANCE DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KOKOT, DENNIS; REEL/FRAME:034140/0121 EFFECTIVE DATE : 20141030	
US2015076785 AA	20150702	LSES	NFA1	Non Final Action Mailed		
US2015076785 AA	20160211	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action		
WO13156219 A1	20131024	LSPB	+	published / reissued		
WO13156219 A1	20140930	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2015506138 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A	
WO13156219 A1	20141020	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE	

Title: MACHINE ACCESS DEVICE

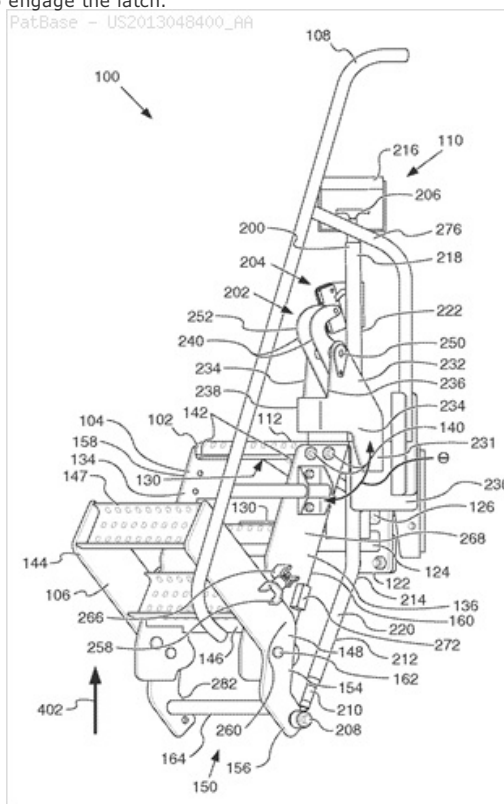
Abstract: Source: US2013048400A An access device for a mobile machine that includes a platform, an upper, fixed position ladder extending downward from the platform, and a lower ladder pivotally connected to a lower end of the upper ladder, the lower ladder having a rail arm that extends from a rear face of the lower ladder that is connected to a push arm that extends above the platform, wherein a downward force on the push arm pivots the lower ladder from a lowered to a raised position. A latch mechanism may be provided on the push arm, the push arm connected to a pivoting striker arm such that downward movement of the push arm causes the striker arm to pivot upward to engage the latch.

Classifications:

International (IPC 8-9): B60R3/02 B62D25/22
E06C5/02 (Advanced/Invention)

CPC: B60R3/02 E06C5/20 E06C5/04

US: 180/89.1 182/115



Family:

Publication number	Publication date	Application number	Application date
AU2012204037 AA	20130314	AU20120204037	20120709
AU2012204037 BB	20150423	AU20120204037	20120709
US2013048400 AA	20130228	US20110222331	20110831

Priority:

US20110222331 20110831

Probable Assignee: CATERPILLAR INC

Assignee(s): (std): CATERPILLAR INC ; DONTAMSETTI ESWARA P ; HOLDENER WILLIAM

Inventor(s): (std): DONTAMSETTI ESWARA P ; HOLDENER WILLIAM

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2012204037 AA	20130314	LSPB	+	published / reissued	
AU2012204037 AA	20150820	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2012204037 AA	20170202	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2012204037 BB	20150423	LSGT	+	granted / extensions (spc, cpc, pte)	

US2013048400 AA	20130228	LSPB	+	published / reissued	
US2013048400 AA	20111005	LSAS	AS	ASSIGNMENT	OWNER NAME : CATERPILLAR INC., ILLINOIS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HOLDENER, WILLIAM; DONTAMSETTI, ESWARA P.; SIGNING DATES FROM 20110901 TO 20110906; REEL/FRAME:027018/0121
US2013048400 AA	20131119	LSWD	-ABD3	Abandoned - - Failure to Respond to an Office Action	

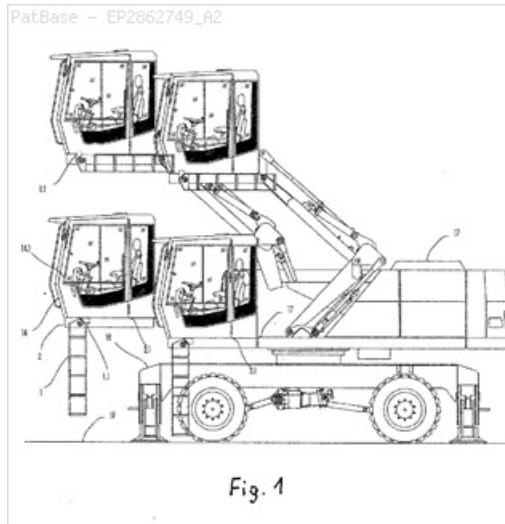
Title: ZUGANGSSYSTEM ZU EINER BAUMASCHINE, EINER LADEMASCHINE ODER EINER ANDEREN ARBEITSMASCHINE
ACCESS SYSTEM TO A CONSTRUCTION MACHINE, A LOADING MACHINE OR OTHER WORKING MACHINE

Abstract: Source: EP2862749A3 Zugangssystem zu einer Baumaschine, einer Lademaschine oder einer anderen mobilen Arbeitsmaschine mit einer Leiter (1) als Aufstiegshilfe, die am Stahlbau angelenkt ist und mittels Betaetigung mindestens eines Bedienhebels (6, 7) von einer den Auf- oder Abstieg ermoglichenden, vertikalen Betriebsposition in eine horizontale Ruheposition schwenkbar ist, wobei die Leiter (1) ueber eine Schwenkschwelle (3) mit einer als Schwenkarm (9) ausgebildeten Verstelleinrichtung verbunden ist, die sich am Unterbau (2) der Kabine (14) befindet, ein innerer Bedienhebel (6) und ein aeusserer Bedienhebel (7) vorgesehen sind und dass sich in der mechanischen Verbindung zwischen dem inneren Bedienhebel (6) und dem aeusseren Bedienhebel (7) ein Drehschieber (13.1) befindet, der das Druckmedium (5) zum Schwenkzylinder (4) freigibt oder absperrt.

Classifications:

International (IPC 8-9): B60R3/00 B60R3/02 E02F9/08
E06C5/06 (Advanced/Invention)

CPC: B60R3/02 E06C5/06 E02F9/0833 E02F9/166 B66C13/54
B62D33/063



Family:

Publication number	Publication date	Application number	Application date
DE202013001302 U1	20130311	DE201320001302U	20130206
EP2862749 A2	20150422	EP20140075006	20140122
EP2862749 A3	20150429	EP20140075006	20140122

Priority:

DE201320001302U 20130206

Probable Assignee: TEREX DEUTSCHLAND GMBH

Assignee(s): (std): TEREX DEUTSCHLAND GMBH

Inventor(s): (std): DIETZE KAI

Agent(s): MOSER GOETZE AND PARTNER PATENTANWAELTE MBB

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE202013001302 U1	20130311	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202013001302 U1	20130502	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20130502
DE202013001302 U1	20150902	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	OWNER NAME : DIETZE, KAI, DE DESCRIPTION : FORMER OWNER: TEREX DEUTSCHLAND GMBH, 76669 BAD SCHOENBORN, DE
DE202013001302 U1	20160228	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	
EP2862749 A2	20150422	LSPB	+	published / reissued	
EP2862749 A2	20150422	LSER	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20140122
EP2862749 A2	20150429	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : E02F 9/08 20060101ALI20150320BHEP
EP2862749 A2	20150429	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B60R 3/02 20060101AFI20150320BHEP

EP2862749 A2	20150429	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : E06C 5/06 20060101ALI20150320BHEP
EP2862749 A2	20160427	LSDW	-18D	DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20151030

Title: MOVABLE TYPE LADDER DEVICE FOR WORK VEHICLE

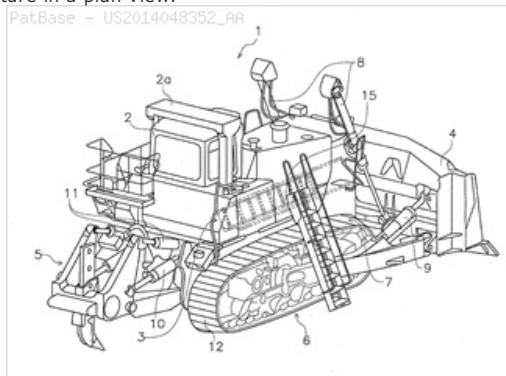
Abstract: Source: US2014048352A A movable type ladder device for a work vehicle includes a ladder main body, a drive mechanism, and an up-and-down lock mechanism. The ladder main body has first and second end portions in a longitudinal direction thereof with the first end portion being rotatably supported with respect to the vehicle body. The drive mechanism is configured to move the ladder main body between a boarding posture and a retracted posture by rotating the ladder main body at an angle of 90 degrees. The up-and-down lock mechanism is configured to restrict the ladder main body set in the retracted posture from moving in an up-and-down direction. The rotational center axis is disposed perpendicularly to the longitudinal direction of the ladder main body set in the boarding posture in a front view, and perpendicularly to the longitudinal direction of the ladder main body set in the retracted posture in a plan view.

Classifications:

International (IPC 8-9): B60R3/00 B60R3/02 B62D33/02 E02F9/08 E02F9/16 E02F9/22 E06C5/00 E06C5/02 E06C5/04 (Advanced/Invention)

CPC: E02F9/0833 B60R3/02 E02F9/2271 E02F9/2275 E06C5/04

US: 182/127 182/97



Family:

Publication number	Publication date	Application number	Application date
AU2012321863 AA	20130418	AU20120321863	20121009
AU2012321863 BB	20150507	AU20120321863	20121009
CN103547484 A	20140129	CN201280024437	20121009
CN103547484 B	20160525	CN201280024437	20121009
JP2013087416 A2	20130513	JP20110225468	20111013
JP5543418 B2	20140709	JP20110225468	20111013
US2014048352 AA	20140220	US20120113423	20121009
US8881867 BB	20141111	US20120113423	20121009
WO13054777 A1	20130418	WO2012JP76064	20121009

Priority:

JP20110225468 20111013 WO2012JP76064 20121009

Probable Assignee: KOMATSU MFG CO LTD

Assignee(s): (std): FURUYA HISAAKI ; KOMATSU MFG CO LTD ; MORIUCHI TAKASHI ; TAKENAWA KENJI

Assignee(s): KOMATSU LTD

Inventor(s): (std): FURUYA HISAAKI ; FURUYA TOSHIKI ; MORIUCHI TAKASHI ; TAKENAWA KENJI

Agent(s): SPRUSON AND FERGUSON; GLOBAL IP COUNSELORS LLP; SHINJYU GLOBAL IP

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 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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2012321863 AA	20130418	LSPB	+	published / reissued	
AU2012321863 AA	20150312	LSRE	DA3	AMENDMENTS MADE SECTION 104	DESCRIPTION : THE NATURE OF THE AMENDMENT IS: AMEND THE INVENTION TITLE TO READ MOVABLE TYPE LADDER DEVICE FOR WORK VEHICLE
AU2012321863 AA	20150903	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2012321863 BB	20150507	LSGT	+	granted / extensions (spc, cpc, pte)	
CN103547484 A	20140129	LSPB	+	published / reissued	
CN103547484 A	20140129	LSPB	+C06	PUBLICATION	
CN103547484 A	20160525	LSGT	+C14	GRANT OF PATENT OR UTILITY	

CN103547484 B	20160525	LSGT	+	MODEL granted / extensions (spc, cpc, pte)	
JP2013087416 A2	20130513	LSPB	+	published / reissued	
JP2013087416 A2	20140108	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20140107
JP2013087416 A2	20140227	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20140226
JP2013087416 A2	20140418	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2013087416 A2	20140501	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20140430
JP2013087416 A2	20140515	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20140508
JP5543418 B2	20140709	LSGT	+	granted / extensions (spc, cpc, pte)	
US2014048352 AA	20140220	LSPB	+	published / reissued	
US2014048352 AA	20131023	LSAS	AS	ASSIGNMENT	OWNER NAME : KOMATSU LTD., JAPAN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:TAKENAWA, KENJI; FURUYA, HISAAKI; MORIUCHI, TAKASHI; SIGNING DATES FROM 20131015 TO 20131021; REEL/FRAME:031459/0347
US8881867 BB	20141111	LSGT	+	granted / extensions (spc, cpc, pte)	
US8881867 BB	20141022	LSGT	PAT1	Patented Case	
WO13054777 A1	20130418	LSPB	+	published / reissued	
WO13054777 A1	20131023	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14113423 COUNTRY OF REF DOCUMENT : US
WO13054777 A1	20131107	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2012321863 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20121009 KIND CODE OF REF DOCUMENT : A
WO13054777 A1	20140414	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13054777 A1	20141105	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12840467 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1

Title: LADDER ASSEMBLY FOR EQUIPMENT

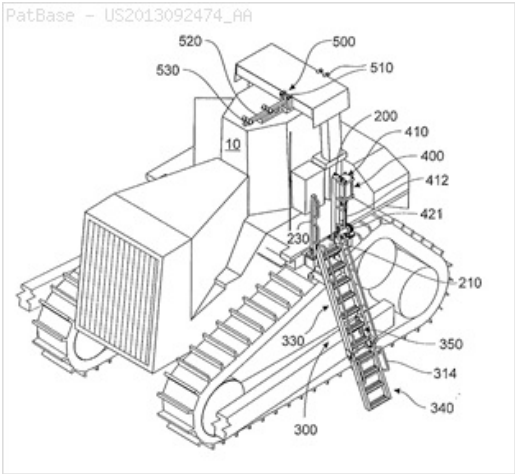
Abstract: Source: US2013092474A The invention relates to a ladder assembly for equipment, the ladder assembly comprising a ladder pivotally mounted to a mount; an actuation mechanism that includes a drive that engages a rotational actuator, the rotational actuator operatively connected to the ladder; wherein the drive causes rotation of the rotational actuator causing the ladder to pivot about the mount.

Classifications:

International (IPC 8-9): E06C5/02 (Advanced/Invention)

CPC: E06C5/04 E06C5/36

US: 182/127



Family:

Publication number	Publication date	Application number	Application date
US2013092474 AA	20130418	US20110271648	20111012

Priority:

US20110271648 20111012

Probable Assignee: ACCESS INNOVATIONS PTY LTD

Assignee(s): (std): MAGNUSSEN MICHAEL WILLIAM

Assignee(s): ACCESS INNOVATIONS PTY LTD

Inventor(s): (std): MAGNUSSEN MICHAEL WILLIAM

Legal status (INPADOC)

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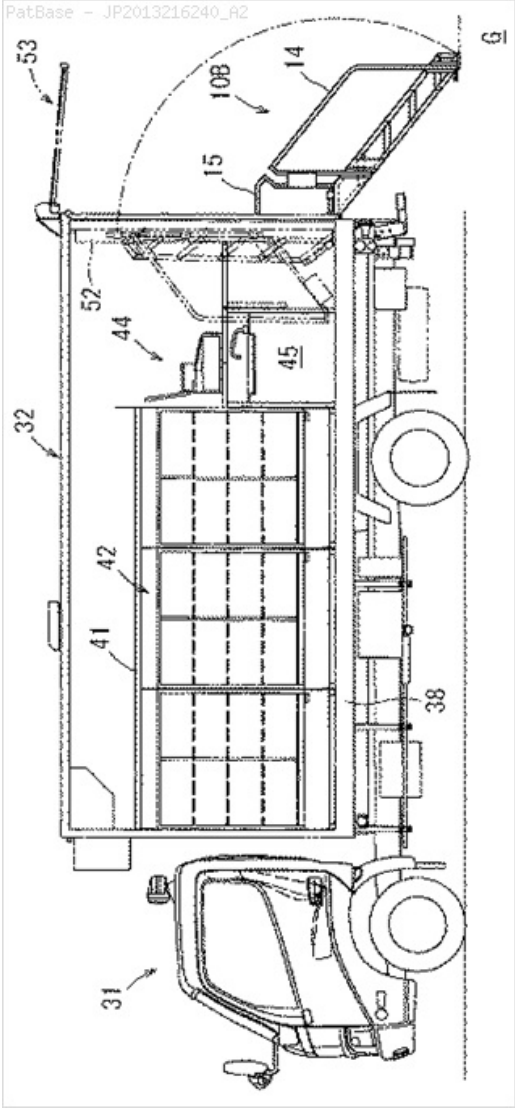
Patent	Date recorded	Event group	Code	Event	Details
US2013092474 AA	20130418	LSPB	+	published / reissued	
US2013092474 AA	20120102	LSAS	AS	ASSIGNMENT	OWNER NAME : ACCESS INNOVATIONS PTY LTD, AUSTRIA DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MAGNUSSEN, MICHAEL WILLIAM; REEL/FRAME:027506/0379 EFFECTIVE DATE : 20110927

Title: MOVEMENT ASSIST DEVICE OF VEHICLE OCCUPANT

Abstract: Source: JP2013216240A PROBLEM TO BE SOLVED: To arrange a handrail also in a part close to a rotating center of stairs by enabling the handrail in the part close to the rotating center of the stairs to be stored in a movement assist device of a vehicle occupant with the stair between a vehicle floor and a ground surface.SOLUTION: Stairs 10B are configured so as to be turnable between a bridging position and a storage position to a vehicle floor side around a hinge body arranged along the vehicle floor on the vehicle floor. At a side in a moving direction of an occupant in the stairs 10B, a handrail 14 is arranged so that the occupant can grip while moving on the stairs 10B. At the vehicle floor side of the handrail 14, a handrail extension body 15 is arranged so as to extend the handrail 14 to the vehicle floor side. The handrail extension body 15 is configured movably between a use position arranged so as to extend the handrail 14 and a storage position arranged so as not to interfere with a vehicle side member when the stairs 10B are located at the storage position.

Classifications:

International (IPC 8-9): B60P3/025 B60R3/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
JP2013216240 A2	20131024	JP20120089480	20120410
JP5940351 B2	20160629	JP20120089480	20120410

Priority:

JP20120089480 20120410

Probable Assignee: TOKAI UTILITY MOTOR KK

Assignee(s): (std): TOKAI UTILITY MOTOR KK

Inventor(s): (std): ADACHI YUKI ; NIWA KAZUO ; OGAWA SATORU ; YAMAGUCHI KOJI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
JP2013216240 A2	20131024	LSPB	+	published / reissued	
JP2013216240 A2	20150303	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20150303

JP2013216240 A2	20151105	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20151104
JP2013216240 A2	20151224	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20151224
JP2013216240 A2	20160420	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2013216240 A2	20160426	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20160426
JP2013216240 A2	20160526	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20160518
JP5940351 B2	20160629	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: FOLDING VEHICLE STAIRCASE

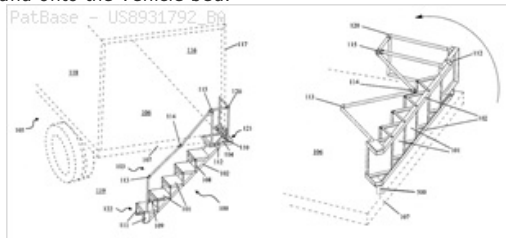
Abstract: Source: US8931792B A staircase for a vehicle with a rigid frame attached to a rigid bed connector that is attachable to the bed of a vehicle. The bed connector is pivotably attachable to the bed so that the connector can be rotated between a stowed position in which the connector is above the bed and a deployed position in which the connector extends behind the vehicle bed. The frame is rotatably attached to the bed connector so the frame is rotatable between a deployed position in which an end of the frame rests on the ground and a retracted position in which the frame is parallel to the bed. The bed connector is then rotatable to bring the staircase to stowed position above the vehicle bed. A plurality of steps are attached to the staircase frame so that a user can walk up the stairs and onto the vehicle bed.

Classifications:

International (IPC 8-9): B60P1/00 B60R3/02 (Advanced/Invention)

CPC: B60R3/02

US: 182/65.1 182/67.1 182/67.4 280/166



Family:

Publication number	Publication date	Application number	Application date
CA2836378 AA	20140305	CA20132836378	20131212
CA2836378 C	20150210	CA20132836378	20131212
US8931792 BA	20150113	US20130102599	20131211

Priority:

US20130102599 20131211

Probable Assignee: KLASSEN FRANK

Assignee(s): (std): KLASSEN FRANK

Inventor(s): (std): KLASSEN FRANK

Agent(s): DEETH WILLIAMS WALL LLP; KAGAN BINDER PLLC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2836378 AA	20140305	LSPB	+	published / reissued	
CA2836378 C	20150210	LSGT	+	granted / extensions (spc, cpc, pte)	
US8931792 BA	20150113	LSGT	+	granted / extensions (spc, cpc, pte)	
US8931792 BA	20141223	LSGT	PAT1	Patented Case	

EP3055189 A1	20170531	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E06C 5/04 20060101ALI20170424BHEP
EP3055189 A1	20170531	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B62D 33/063 20060101ALI20170424BHEP
EP3055189 A1	20170531	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B62D 33/067 20060101ALI20170424BHEP
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MX2016004416 A1	20160726	LSPB	+	published / reissued	
US2015096817 AA	20150409	LSPB	+	published / reissued	
US2015096817 AA	20131118	LSAS	AS	ASSIGNMENT	OWNER NAME : PACCAR INC, WASHINGTON DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ANGELO, GERALD J.; REEL/FRAME:031624/0637 EFFECTIVE DATE : 20130930
US9168873 BB	20151027	LSGT	+	granted / extensions (spc, cpc, pte)	
US9168873 BB	20151007	LSGT	PAT1	Patented Case	
WO15053877 A1	20150416	LSPB	+	published / reissued	
WO15053877 A1	20160405	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2926422 COUNTRY OF REF DOCUMENT : CA
WO15053877 A1	20160407	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

Title: POWER LADDER SYSTEM FOR AGRICULTURAL VEHICLES

Abstract: Source: US2016101739A A power ladder system for an agricultural vehicle includes an agricultural vehicle having a stationary platform and a movable platform with a ladder section connected to the movable platform. An actuator is connected to the movable platform which is configured to move the movable platform between a retracted position and an extended position. An engagement member selectively connects the actuator to the movable platform such that when the engagement member is disengaged the movable platform may be manually operated. The system is configured to automatically extend or retract the movable platform based on various inputs such as pressing a button on a remote or on the ladder, placing the agricultural vehicle in a drive mode, sensing motion of the agricultural vehicle, and opening the door, among other triggers.

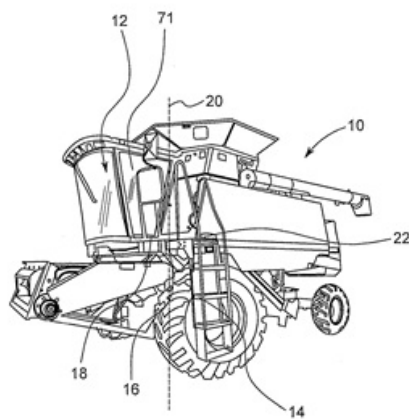
Classifications:

International (IPC 8-9): A01B76/00 A01D41/12 A01D75/20
B60R3/02 (Advanced/Invention)

CPC: B60R3/02 A01B76/00 A01D41/1261 A01D75/20

US: 280/164.1

PatBase - US2016101739_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2016101739 AA	20160414	US20150879592	20151009
US9649984 BB	20170516	US20150879592	20151009

Priority:

US20140062316P 20141010 US20150879592 20151009

Probable Assignee: CUMMINGS DUSTIN

Assignee(s): (std): CUMMINGS DUSTIN ; EDELEN BRIAN

Inventor(s): (std): CUMMINGS DUSTIN ; EDELEN BRIAN

Agent(s): BROWNWINICK LAW FIRM; CHRISTOPHER A

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2016101739 AA	20160414	LSPB	+	published / reissued	
US9649984 BB	20170516	LSGT	+	granted / extensions (spc, cpc, pte)	
US9649984 BB	20170426	LSGT	PAT1	Patented Case	

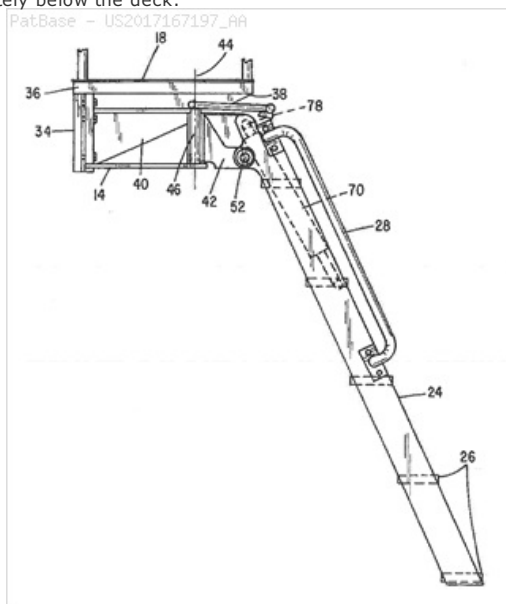
Title: POWERED LADDER FOR LARGE INDUSTRIAL VEHICLES

Abstract: Source: US2017167197A A ladder assembly for a work vehicle comprises a deck affixed horizontally just below an entry door of the cab. A yoke is pivotally joined to a support member of the deck for rotation about a vertical axis below the deck surface. The yoke has a pair of arms pivotally joined to an upper end of a ladder structure for allowing rotation of the ladder about a horizontal axis. A turnbuckle is coupled between the support structure of the deck and one stringer of the ladder while a mechanical actuator is operatively coupled to the ladder's other stringer and to an arm of the yoke to which the other stringer is attached. Operation of the mechanical actuator moves the ladder reciprocally between a use position and stowed position where the stowed position is parallel to and immediately below the deck.

Classifications:

International (IPC 8-9): B60R3/02 E02F9/08 E06C5/04 E06C7/18 F15B13/02 F15B15/14 F16B7/06 F16C11/06 (Advanced/Invention)

CPC: E06C5/04 E06C7/183



Family:

Publication number	Publication date	Application number	Application date
US2017167197 AA	20170615	US20150966559	20151211
WO17100272 A1	20170615	WO2016US65311	20161207

Priority:

US20150966559 20151211

Probable Assignee: JOHNSON DAVID A

Assignee(s): (std): JOHNSON DAVID ; JOHNSON DAVID A

Inventor(s): (std): JOHNSON DAVID ; JOHNSON DAVID A

Agent(s): THOMAS J NIKOLAI

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 JP KE KG 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2017167197 AA	20170615	LSPB	+	published / reissued	
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