

Search history

Search 1: FT=(parking* anti collision* and barrier* and motor* and anti break*) (Results 0)
Search 2: FT=(parking* anti collision* and barrier* and motor*) (Results 0)
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1) Family number: 67233018 (US2017300049A)

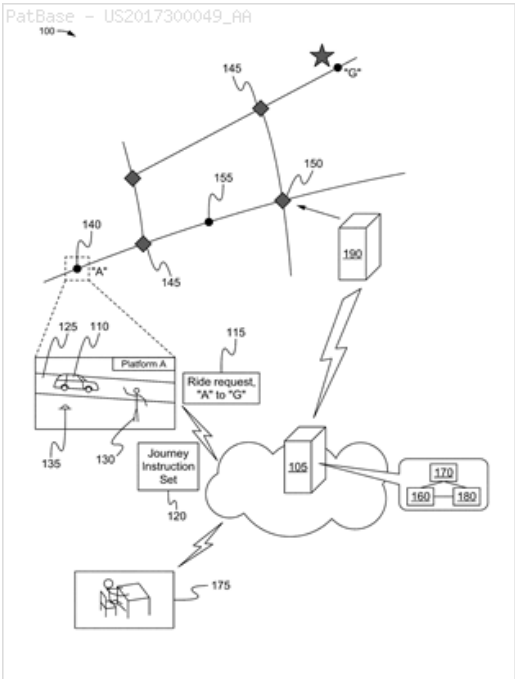
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Title: SYSTEM FOR AND METHOD OF MAXIMIZING UTILIZATION OF A CLOSED TRANSPORT SYSTEM IN AN ON-DEMAND NETWORK

Abstract: System for and method of controlling vehicles in a closed transport system. A closed transport system network controller generates a route for a requested journey, determining the commencement time of the journey from the origin point such that the vehicle executes the journey free of collisions with other vehicles in the closed transport system. The network controller provides steering and speed instructions in order for the vehicle to execute the route in the prescribed manner. The network controller controls all vehicles in the closed transport system such that, on a macro level, the capacity of the closed transport system is generally maximized.

Classifications:

International (IPC 8-9): G01C21/34 G05D1/00 G05D1/02
G08G1/0968 (Advanced/Invention);
H04L29/08 (Advanced/Non-invention)
CPC: G05D1/0027 G08G1/096811 G01C21/3492 G05D1/0289
H04L67/12 G08G1/096816 G08G1/096844 G08G1/20 G08G1/202
G08G1/207 H04W4/024 H04W4/40 G05D2201/0212 G06Q10/047
G06Q10/06311 G06Q50/28



Family:

Publication number	Publication date	Application number	Application date
US2017300049 AA	20171019	US20170487313	20170413
WO17177969 A1	20171019	WO2017CN080591	20170414

Priority:

US20160323424P 20160415 US20170487313 20170413

Probable Assignee: PODWAY LTD

Assignee(s): (std): PODWAY LTD

Inventor(s): (std): SEALLY JONATHON

Agent(s): KING AND WOOD MALLESONS

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 KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 33541024 (WO02062623A2)

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Title: IMPROVED VEHICULAR LIGHTING SYSTEM

Abstract: An improved vehicle lighting system for a vehicle is provided. The lighting system includes a light assembly, which is configured so as to illuminate, for example, a ground area adjacent an entrance to the vehicle or an interior portion of the

vehicle. The light assembly includes a single non-incandescent light source, which comprises a single high-intensity power light emitting diode. The single high-intensity power light emitting diode preferably has a luminous efficiency of at least about 1 lumen per watt when the single high-intensity power light emitting diode is operated and wherein the single high-intensity power light emitting diode is preferably operated at a forward current of at least 100 milliamps. The single high-intensity power light emitting diode is preferably provided with a heat dissipation element, which functions as at least one of a heat sink and a heat dissipater for the power dissipated by the single high-intensity power light emitting diode. The single high-intensity power light emitting diode operates at an operational voltage that is less the battery/ignition voltage of the vehicle. Preferably the light assembly is provided with at least one of a series power resistor and a DC voltage to DC voltage converter.

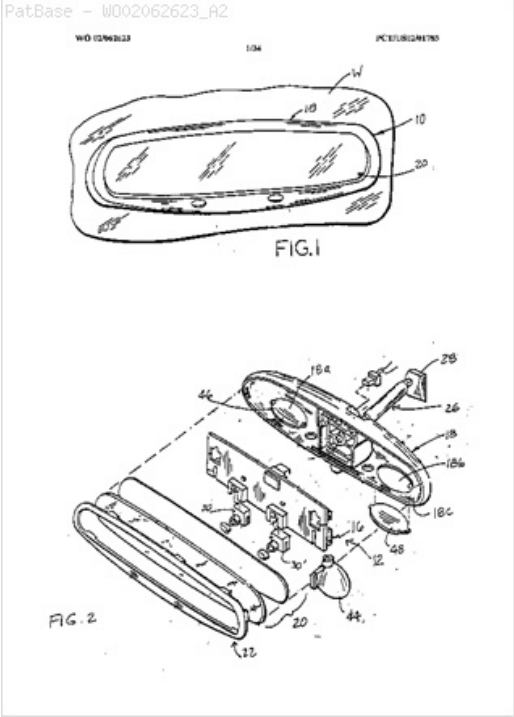
Classifications:

International (IPC 8-9): B60Q1/26 B60Q1/32 B60Q3/02 B60R1/12
B60R11/02 B60R11/04 (Advanced/Invention);
B60R11/00 G02B27/00 G02B6/00 (Advanced/Non-invention)

International (IPC 1-7): B60R1/12

CPC: B60D1/58 B60R2300/808 H04N7/183 B60K35/00 B60K37/06
B60Q1/2665 B60Q1/323 B60R1/12 B60R1/1207 B60R11/0235
B60R11/04 B60R2011/0026 B60R2011/0033 B60R2011/0082
B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288
B60R2011/0294 G02B6/00 G02B2027/0118 G02B2027/012
Y10S362/80 B60R2300/10 B60R2300/20 B60R2300/308 G09G3/3406
G09G3/3648 G09G2320/0626 G09G2380/10 H04N5/374 B60D1/36
B60Q3/258 B60Q3/64 B60Q3/74 B60Q3/82 B60Q2500/00 B60R1/04
B60R2001/1253 B60R2300/8006 G06K9/00771 G06K9/00838
G06K9/78 H04N5/2256 H04N5/23293 H04N5/2354 H04N5/332
B60R1/00 B60R1/003 B60K2370/143 B60K2370/1438

European: B60K35/00 B60K37/06 B60Q1/26J B60Q1/26J2
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Family:

Publication number	Publication date	Application number	Application date
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AU2002251807 AA	20020819	AU20020251807	20020122
DE60220379 D1	20070712	DE20026020379	20020122
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DE60220379 T2	20080124	DE20026020379T	20020122
EP1363810 A2	20031126	EP20020720833	20020122
EP1363810 B1	20070530	EP20020720833	20020122
ES2287266 T3	20071216	ES20020720833T	20020122
WO02062623 A2	20020815	WO2002US01785	20020122
WO02062623 A3	20030220	WO2002US01785	20020122

Priority:

US20010263680P 20010123 US20010271466P 20010226 US20010793002 20010226
US20010315384P 20010828 US20020346733P 20020107 WO2002US01785 20020122

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP

Inventor(s): (std): LINDAHL JOHN ; LINDAHL JOHN O ; LYNAM NIAL ; LYNAM NIAL R

Inventor(s): NIAL R LYNAM ; JOHN O LINDAHL

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

3) Family number: 69335031 (US2018109764A) © PatBase

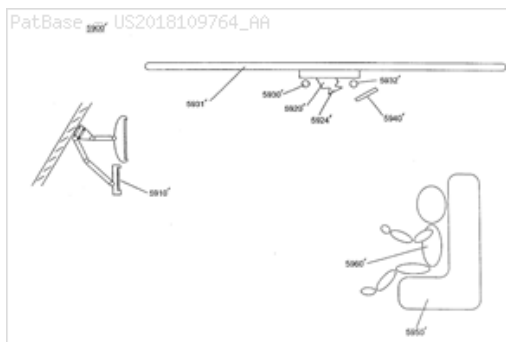
Title: VISION SYSTEM FOR A VEHICLE

Abstract: A vision system for a vehicle includes a driver-side exterior mirror assembly having a driver-side camera for capturing driver-side image data and a passenger-side exterior mirror assembly having a passenger-side camera for capturing passenger-side image data. A video display disposed at the vehicle displays video images derived from image data captured by the driver-side and passenger-side cameras. The video display includes a driver-side display portion and a passenger-side display portion. The driver-side display portion of the video display displays video images derived from driver-side image data captured by the driver-side camera and does not display video images derived from any passenger-side image data captured by the passenger-side camera. The passenger-side display portion of the video display displays video images derived from passenger-side image data captured by the passenger-side camera and does not display video images derived from any driver-side image data captured by the driver-side camera.

Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00
B60K37/06 B60Q1/22 B60Q1/26 B60Q1/50 B60Q1/54 B60Q3/02
B60Q3/258 B60R1/00 B60R1/02 B60R1/04 B60R1/06 B60R1/12
B60R11/02 B60R11/04 B60R21/015 B60S1/08 G02B27/01
G06Q20/00 H04N7/18 (Advanced/Invention);
B60R11/00 B60R21/01 B60R21/015 G02B27/00
G02B6/00 (Advanced/Non-invention)

CPC: B60R2300/103 B60R2300/10 B60R2300/101 B60C23/00 B60C23/0408 B60K35/00 B60K37/06 B60Q1/22 B60Q1/2665 B60Q1/503 B60Q1/54 B60Q3/258 B60R1/04 B60R1/06 B60R1/12 B60R1/1207 B60R11/0235 B60R11/0241 B60R11/0247 B60R11/04 B60R21/01566 B60R2001/1215 B60R2001/1223 B60R2001/1253 B60R2001/1284 B60R2011/0026 B60R2011/0033 B60R2011/004 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 B60R2300/105 B60R2300/106 B60R2300/302 B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053 B60R2300/806 B60S1/0844 B60S1/0885 G02B6/00 G02B27/01 G02B27/0101 G02B2027/0118 G02B2027/012 H04N7/18 B60R1/02 B60R1/00 B60S1/0822 H04N7/183 B60K2370/143 B60K2370/1438
US: 348/148



Family:

Publication number	Publication date	Application number	Application date
US2018109764 AA	20180419	US20170837027	20171211
US10059265 BB	20180828	US20170837027	20171211

Priority:

US20000186520P 20000302	US20000218336P 20000714	US20000234412P 20000921
US20000237077P 20000930	US20000238483P 20001006	US20000243986P 20001027
US20010263680P 20010123	US20010793002 20010226	US20040755915 20040113
US20070625374 20070122	US20080052341 20080320	US20090536930 20090806
US20110278405 20111021	US20130845714 20130318	US20150971196 20151216
US20170583113 20170501	US20170837027 20171211	

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): MAGNA ELECTRONICS INC

Inventor(s): (std): BINGLE ROBERT L ; O BRIEN FRANK ; LYNAM NIAL R ; SCHOFIELD KENNETH

Agent(s): HONIGMAN MILLER SCHWARTZ AND COHN LLP

4) Family number: 55623042 (US2014015977A)

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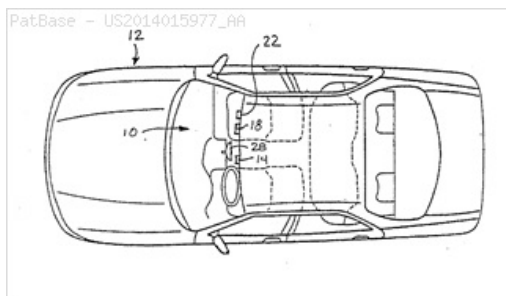
Title: DRIVER ASSIST SYSTEM FOR VEHICLE

Abstract: A driver assist system for a vehicle includes a camera and a video display screen viewable by a driver of the vehicle. The video display screen is operable to display images derived, at least in part, from image data captured by the camera. A visual cue is displayed by the video display screen in conjunction with display of the captured image data. During a reversing maneuver of the vehicle, image data captured by the camera is displayed by the video display screen as video images so as to assist the driver in reversing the vehicle. When a reversing maneuver of the vehicle is not being executed, the display screen may be operable to display information associated with at least one of (i) a navigational system, (ii) a telematics system and (iii) a vehicle information system.

Classifications:

International (IPC 8-9): B60N2/90 B60R1/12 G01C21/00 G01C21/36 G01S19/48 G06Q20/00 H04N7/18 (Advanced/Invention); G01C21/20 G01C21/26 G01S5/14 (Advanced/Non-invention)

CPC: G01C21/20 G01C21/26 G01C21/00 G06K9/00805 B60C23/0408 B60Q1/2665 B60Q9/00 B60R1/088 B60R1/12 B60R2001/1215 B60R2001/1253 B60R2300/8066 G01C21/36 G01C21/365 H04N7/183 B60R1/00 B60Q5/006 B60R11/04 B60R2300/105 B60R2300/301 B60R2300/406 G01S13/862 G01S13/865 G01S13/867 H04N7/181 B60R2300/207 B60R2300/806 B60R2300/8093 G06T5/006 G06T2207/30252 H04N5/23293 H04N5/247 H04N5/265 B60N2/976
US: 340/525 348/148 701/24 701/408 701/409 701/410



Family:

Publication number	Publication date	Application number	Application date
US2014015977 AA	20140116	US20130033963	20130923
US8676491 BB	20140318	US20130033963	20130923
US8676491 K1	20180222	US20130033963	20130923

Priority:

US20000186520P 20000302	US20000187960P 20000309	US20000218336P 20000714
US20000234412P 20000921	US20000237077P 20000930	US20000238483P 20001006
US20000243986P 20001027	US20010263680P 20010123	US20010793002 20010226
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US20020346733P 20020107	US20020054633 20020122	US20020404906P 20020821
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US20120399347 20120217	US2012039347 20120217	US20120621382 20120917
US20130033963 20130923		

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): DONNELLY CORP ; MAGNA ELECTRONICS INC

Assignee(s): MAGNA MIRRORS OF AMERICA INC ; MAGNA DONNELLY CORP ; MAGNA ELECTRONICS INC

Inventor(s): (std): LYNAM NIAL R ; SCHOFIELD KENNETH ; MCCARTHY KEVIN C ; TAYLOR DAVID W

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

Title: MICROWAVE/MILLIMETER WAVE SENSOR APPARATUS

Abstract: A microwave/millimeter wave sensor apparatus including a planar radiation type oscillator substrate having an inner-layer GND interposed between a front surface side dielectric substrate and a rear surface side dielectric substrate and a pair of conductor patches in an axis-symmetric manner on the side of the front surface layer. A gate and drain of a microwave transistor are respectively connected to the conductor patches to supply power to the gate and the drain of the microwave transistor through a gate-side RF choke circuit and a drain-side RF choke circuit. An impedance line satisfying an oscillation condition is connected to a source and a transmit RF signal in an RF zone as a planar radiation type oscillator is transmitted and a receive RF signal as reflected waves is received from a measured object, thus obtaining an IF signal as the sensing information through homodyne mixing.

Classifications:

International (IPC 8-9): G01S13/00 G01S13/04 G01S13/34
G01S13/87 G01S13/93 G01S7/03 G01S7/40 H01P1/211 H01Q1/22
H01Q13/06 H01Q13/08 H01Q15/14 H01Q23/00 H01Q9/28 H03B5/18
H04B1/54 (Advanced/Invention);
G01S13/00 (Advanced/Non-invention);
G01S13/00 G01S7/03 (Core/Invention)
CPC: G01S2013/9375 G01S2013/9378 G01S2013/9385 G01S7/03
G01S7/032 G01S13/34 G01S13/87 G01S13/931 H01Q1/2208
H01Q9/285 H01Q23/00 H03B5/1852
European: G01S13/34 G01S13/87 G01S13/93C G01S7/03
G01S7/03B H01Q1/22C H01Q23/00 H01Q9/28B H03B5/18F1B
US: 331/107.00R 331/107R 331/108.00R 331/108R 331/115 331/132
342/175 342/175P 342/195 342/27 342/28 342/82 342/89

PatBase - US2010117891_AA

Patent Application Publication May 13, 2010 Sheet 1 of 49 US 2010/0117891 A1

FIG. 1A

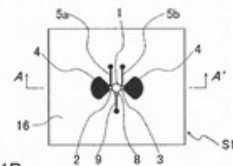


FIG. 1B

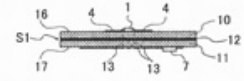
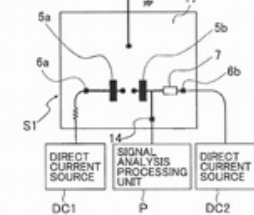


FIG. 1C



Family:

Publication number	Publication date	Application number	Application date
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CN101680945 B	20130724	CN200880017641	20080331
EP2144080 A1	20100113	EP20080739940	20080331
EP2144080 A4	20120620	EP20080739940	20080331
JP2008120826 A1	20100715	JP20090507567T	20080331
JP5422834 B1	20140219	JP20090507567T	20080331
JP5422834 B2	20140219	JP20090507567T	20080331
US2010117891 AA	20100513	US20080594433	20080331
US8212718 BB	20120703	US20080594433	20080331
WO08120826 A1	20081009	WO2008JP56834	20080331

Priority:

JP20070096545 20070402 JP20090507567 20080331 WO2008JP56834 20080331

Probable Assignee: NATIONAL INST OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

Assignee(s): (std): NAT INS OF INFO AND COMM TECH ; NAT INST INF AND COMM TECH ; UTAGAWA HITOSHI ; MATSUI TOSHIKI

Assignee(s): N A ; NATIONAL INST OF INFORMATION AND COMMUNICATIONS TE ; NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATION TECHNOLOGY ; NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY ; NATIONAL INST OF INFORMATION AND COMMUNICATION TECHNOLOGY ; NATIONAL INS OF INFO AND COMMUNICATIONS TECH ; NATIONAL INST INFORMATION AND COMMUNICATIONS

Inventor(s): (std): HITOSHI UTAGAWA ; MATSUI TOSHIKI ; TOSHIKI MATSUI ; UTAGAWA HITOSHI

Agent(s): FAULKNER THOMAS JOHN; FUKUDA SHINICHI; FUKUDA KENZO; KATO KYOSUKE; FUKUDA TAKEMICHI; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; FUKUDA KENZO ET AL

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

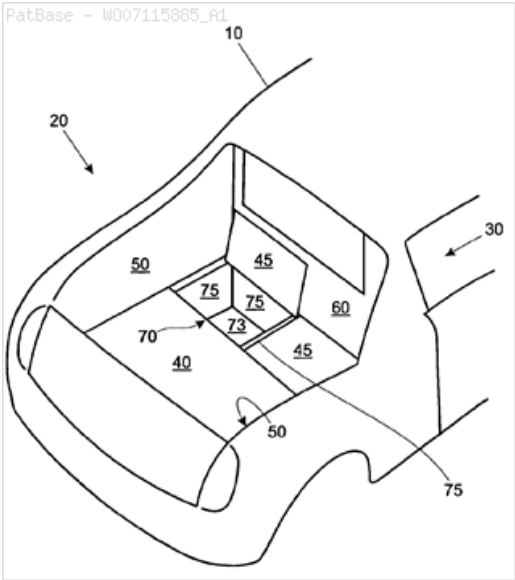
Title: COVER FOR A STORAGE COMPARTMENT IN A VEHICLE

Abstract: ABSTRACT The invention relates to a storage system for use in a vehicle. The system includes a means for covering a recess (70) in said vehicle (10). The system comprises: a cover 5 (45), movable between a first position in which access to the recess (70) is prevented and a second position in which access to the recess (70) is unobstructed; and a magnetic attachments means (80) that anchors the cover (45) to the vehicle (10) to maintain the cover in each of the first and second positions. 10 7

Classifications:

International (IPC 8-9): B60N2/02 B60N2/07 B60N2/22 B60N2/44
B60N2/62 B60N2/90 B60P7/02 B60P7/08 B60P7/15 B60R13/08
B60R19/38 B60R19/42 B60R19/44 B60R5/04 B60R7/02 B60R9/00

B60R9/04 B60R9/058 B60R9/06 B60R9/10 B60R9/12 B62D25/08
B62D25/20 B62D29/00 B62D33/02 B62D33/03 G05G1/015
G05G1/28 (Advanced/Invention);
B60N2/02 B60N2/06 B60N2/22 B60N2/44 B60N2/62 B60P7/06
B60R5/00 B60R9/00 B62D25/08 B62D25/20 B62D33/02
G05G1/00 (Core/Invention)
CPC: B60R9/045 B60R9/04 B60R9/058 B60P7/15 B62D33/0207
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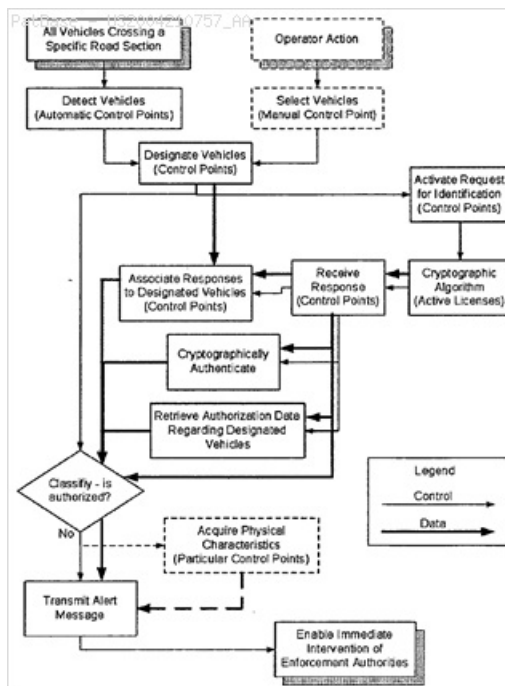
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EP1842728 A1	20071010	EP20070104432	20070319
EP1842732 A2	20071010	EP20070104100	20070314
EP1842732 A3	20110323	EP20070104100	20070314
EP1842732 B1	20120516	EP20070104100	20070314
EP1854708 A1	20071114	EP20070107228	20070430
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GB200705070 A0	20070425	GB20070005070	20070316
GB200705302 A0	20070425	GB20070005302	20070320
GB200705810 A0	20070502	GB20070005810	20070327
GB2436816 A1	20071010	GB20060008864	20060505
GB2436816 B2	20100714	GB20060008864	20060505
GB2436817 A1	20071010	GB20060009087	20060509
GB2436818 A1	20071010	GB20070004938	20070315
GB2436819 A1	20071010	GB20070005068	20070316
GB2436820 A1	20071010	GB20070005070	20070316
GB2436820 B2	20080305	GB20070005070	20070316
GB2436821 A1	20071010	GB20070005302	20070320
GB2436821 B2	20080521	GB20070005302	20070320
GB2436822 A1	20071010	GB20070005810	20070327
GB2436822 B2	20080326	GB20070005810	20070327
GB2436825 A1	20071010	GB20060011573	20060612
GB2436825 B2	20080312	GB20060011573	20060612
GB2436860 A1	20071010	GB20070005010	20070315
GB2436860 B2	20080723	GB20070005010	20070315
GB2436935 A1	20071010	GB20070004899	20070315
GB2436935 B2	20080220	GB20070004899	20070315
GB2438827 A1	20071212	GB20060011272	20060608
GB2441316 A1	20080305	GB20060016178	20060815
GB2441316 B2	20111026	GB20060016178	20060815
WO07115885 A1	20071018	WO2007EP52368	20070313
WO07115889 A2	20071018	WO2007EP52405	20070314
WO07115889 A3	20080110	WO2007EP52405	20070314
WO07115896 A1	20071018	WO2007EP52481	20070315

Priority:

GB20060007064	20060407	GB20060008864	20060505	GB20060009074	20060509
GB20060009069	20060509	GB20060009082	20060509	GB20060010072	20060520
GB20060010074	20060520	GB20060010073	20060520	GB20060010878	20060602
GB20060010881	20060602	GB20060011272	20060608	GB20060011573	20060612
GB20060011831	20060615	GB20060016178	20060815	EP20070104100	20070314

Probable Assignee: NISSAN MOTOR MFG UK LTD**Assignee(s):** (std): BICKERS SIMON ; CHAMPANERI BHAVESH ; KITCHEN MATTHEW ; MARTIN STEVE ; MITCHELL SIMON ; NISSAN TECHNICAL CT EUROP LTD ; NISSAN MOTOR MFG UK LTD ; NISSAN TECHNICAL CT EUROP ; NISSAN MOTOR MFG ; RENDELL TOM ; PARKHURST NEAL**Assignee(s):** NISSAN MOTOR MANUFACTURING UK LTD ; NISSAN MOTOR MFG UK LTD CRANFIELD ; NISSAN TECHNICAL CENTRE EUROPE ; NISSAN MOTOR MFG LTD ; NISSAN MOTOR MANUFACTURING ; NISSAN TECHNICAL CENTRE EUROPE LTD**Inventor(s):** (std): CHAMPANERI BHAVESH ; KEAREY STEVE ; KEAREY STEVEN ; MITCHELL SIMON ; MITCHINSON JOE ; TAYLOR JEREMY ; URQUHART IAIN ; PARKHURST NEAL ; RENDELL TOM ; PICTON CHRISTOPHER ; MARTIN STEVEN ; KITCHEN MATTHEW ; KEARY STEVEN ; BICKERS SIMON ; MARTIN STEVE ; KEEN IAIN**Inventor(s):** BHAVESH CHAMPANERI ; CHRISTOPHER PICTON ; MATTHEW KITCHEN ; SIMON MITCHELL ; STEVE KEAREY ; URQUHART IAIN CRANFIELD ; MITCHELL SIMON CRANFIELD ; KEAREY STEVEN CRANFIELD ; BICKERS SIMON CRANFIELD ; TOM RENDELL ; STEVEN MARTIN ; STEVEN KEAREY ; SIMON BICKERS ; NEAL PARKHURST ; IAIN URQUHART ; JEREMY TAYLOR ; JOE MITCHINSON**Agent(s):** HUFTON VICTORIA ALICE ; CARPINTERO MARIO**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 MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**7) Family number: 31154082** (US2004210757A)

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Title: METHOD AND A SYSTEM FOR UNAUTHORIZED VEHICLE CONTROL**Abstract:** A security method and system for the detection and/or control of unauthorized vehicles among a large number of free flowing authorized vehicles within a controlled geographical zone, incorporating roadside infrastructure, electronic means in vehicles, vehicle to roadside communication, and cryptographic protection against forgery, aiding the interception of unauthorized vehicles by enforcement authorities.**Classifications:****International (IPC 8-9):** B60R25/00 G08G1/123 (Advanced/Invention)**International (IPC 1-7):** B60R H04L9/00**CPC:** B60R25/00 G08G1/207**European:** B60R25/00 G08G1/20C**US:** 713/182 713/182P**Family:**

Publication number	Publication date	Application number	Application date
IL154091 A0	20030731	IL20030154091	20030123
US2004210757 AA	20041021	US20040761423	20040122

Priority:

IL20030154091 20030123

Probable Assignee: EDAN ALMOG**Assignee(s):** ALMOG EDAN ; EDAN ALMOG ; KOGAN NOAM ; NOAM KOGAN**Inventor(s):** (std): ALMOG EDAN ; KOGAN NOAM**Inventor(s):** NOAM KOGAN ; EDAN ALMOG**8) Family number: 50913117** (US2012086808A)

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Title: VIDEO MIRROR SYSTEM FOR A VEHICLE

Abstract: A video mirror system for a vehicle includes an interior rearview mirror assembly with an electrochromic reflective element. The reflective element has an electrochromic medium disposed between a first substrate and a second substrate and has a transmissive third-surface mirror reflector. A video display is disposed to the rear of the reflective element and emits light when actuated that passes through the transmissive mirror reflector. The video display includes a thin film transistor video screen that is back lit by a plurality of white light emitting diodes that are operable by a control. The control includes DC to DC conversion circuitry that includes circuitry for converting an ignition voltage of the equipped vehicle to a lower voltage that is closer to the forward voltage applied across individual white light emitting light emitting diodes of the plurality of white light emitting light emitting diodes than the ignition voltage.

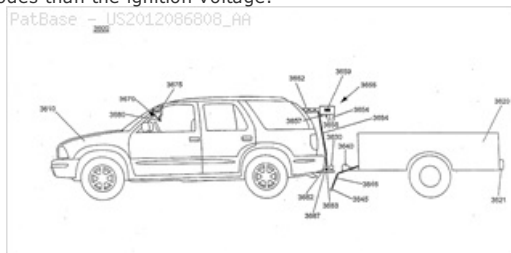
Classifications:

International (IPC 8-9): B60Q1/00 B60Q1/26 B60Q1/32 B60Q3/02 B60R1/12 B60R11/02 B60R11/04 H04N7/18 (Advanced/Invention); B60R11/00 G02B27/00 G02B6/00 (Advanced/Non-invention)

CPC: B60D1/58 B60R2300/808 H04N7/183 B60K35/00 B60K37/06 B60Q1/2665 B60Q1/323 B60R1/12 B60R1/1207 B60R11/0235 B60R11/04 B60R2011/0026 B60R2011/0033 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 G02B6/00 G02B2027/0118 G02B2027/012 Y10S362/80 B60R2300/10 B60R2300/20 B60R2300/308 G09G3/3406 G09G3/3648 G09G2320/0626 G09G2380/10 H04N5/374 B60D1/36 B60Q3/258 B60Q3/64 B60R1/00 B60Q3/74 B60Q3/82 B60Q2500/00 B60R1/003 B60R1/04 B60R2001/1253 B60R2300/8006 G06K9/00771 G06K9/00838 G06K9/78 H04N5/2256 H04N5/23293 H04N5/2354 H04N5/332 B60K2370/143 B60K2370/1438

European: B60K35/00 B60K37/06 B60Q1/26J2 B60Q1/32D B60Q3/00L1 B60Q3/02B12 B60R1/12 B60R1/12A B60R11/02E2 B60R11/04 L60K350/10J5 L60K350/10J5D L60R11/00P1K L60R11/00P1P L60R11/00R6A L60R11/00R6C L60R11/00R6D3 L60R11/02S L60R11/02T L60R11/02W S02B27/01A4 S02B27/01A4A S02B6/00

US: 340/425.5 340/438 348/148 348/148P 348/151 348/E7.087 348/E70.87S 362/494



Family:

Publication number	Publication date	Application number	Application date
US2012086808 AA	20120412	US20110309915	20111202
US8653959 BB	20140218	US20110309915	20111202

Priority:

US20010263680P 20010123	US20010271466P 20010226	US20010793002 20010226
US20010315384P 20010828	US20020346733P 20020107	US20020054633 20020122
US20070623997 20070117	US20080043567 20080306	US20080061372 20080402
US20090609329 20091030	US20110309915 20111202	

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP ; LINDAHL JOHN O ; LYNAM NIAL R

Inventor(s): (std): LINDAHL JOHN O ; LYNAM NIAL R

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

9) Family number: 67555129 (EP3246846A3)

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Title: COMMUNICATION SYSTEM, SERVICE-PROVISION SYSTEM COMPRISING SUCH A COMMUNICATION SYSTEM, AND ASSOCIATED METHOD SYSTEME DE COMMUNICATION, SYSTEME DE FOURNITURE DE SERVICE COMPRENANT UN TEL SYSTEME DE COMMUNICATION, ET PROCEDE ASSOCIE </T

Abstract: Source: EP3246846A3 [FR] L'invention concerne un systeme de communication avec au moins un media sans contact (12), le systeme de communication (10) comprenant un premier dispositif de communication (24) adapte pour lire des donnees sur un premier media sans contact (12) et un deuxieme dispositif de communication (36) adapte pour lire des donnees sur un deuxieme media sans contact, le premier dispositif de communication (24) comprenant une premiere antenne (30) definissant une premiere region de communication (34) avec le premier media sans contact (12), le deuxieme dispositif de communication (36) comprenant une deuxieme antenne (42) definissant une deuxieme region de communication (48) avec le deuxieme media sans contact, les premiere et deuxieme regions de communication (34, 48) se chevauchant l'une l'autre, Le systeme de communication (10) comprend un controleur externe (18).

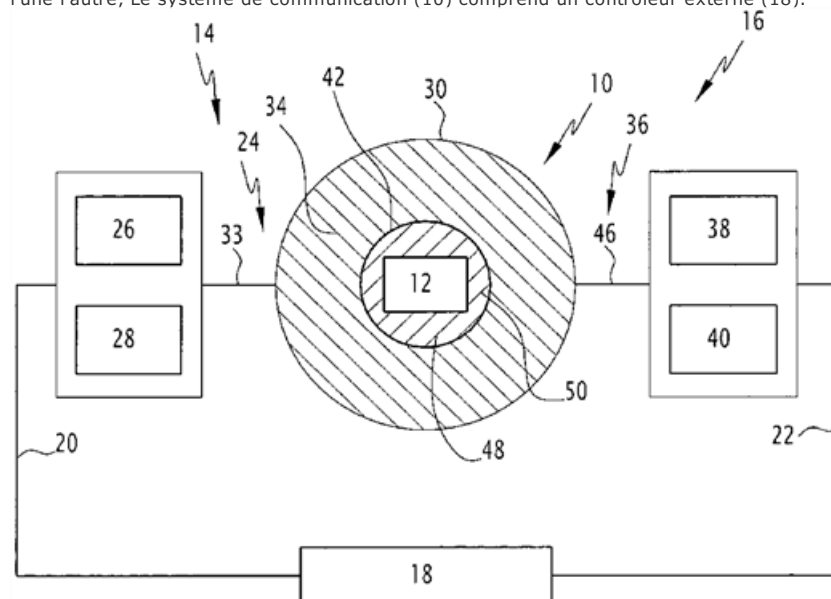
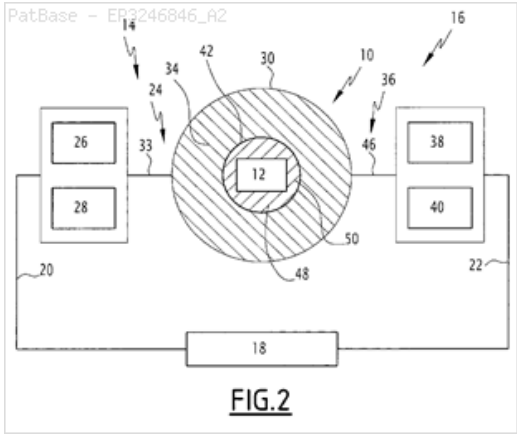


FIG.2

Classifications:

International (IPC 8-9): G06K G06K7/08 G06K7/10 G06Q20/32 H04B5/00 H04B7/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CA3008731 AA	20181219	CA20183008731	20180615
EP3246846 A2	20171122	EP20170290079	20170619
EP3246846 A3	20180214	EP20170290079	20170619
HK1247378 A1	20180921	HK20180106632	20180522
MX2018007285 A1	20190208	MX20180007285	20180614

Priority:

EP20170290079 20170619

Probable Assignee: REVENUE COLLECTION SYSTEMS FRANCE SAS

Assignee(s): (std): THALES SA ; REVENUE COLLECTION SYSTEMS FRANCE SAS

Assignee(s): FIX FRANCK ; GITTON JEAN PIERRE ; LAMBIN XAVIER ; LANGLE PIERRE ; THALES

Inventor(s): (std): LANGLE PIERRE ; GITTON JEAN PIERRE ; LAMBIN XAVIER ; FIX FRANCK ; JEAN PIERRE GITTON ; FRANCK FIX ; XAVIER LAMBIN ; PIERRE LANGLE

Agent(s): ROBIC ; LAVOIX ; HK PAT IP LTD

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

10) Family number: 34894143 (W007081519A2)

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Title: GENIUS ADAPTIVE DESIGN

Abstract: Explore interesting inventions inside, conceived by our genius idea generator. Discover history's most effective method in conceiving novel uses for existing electronic technology. License huge domains of intellectual property from the invention directory our system helped develop. The searcher can find one of our interesting inventions in this patent application via our LicenseItToday.com, etc. Call our California Headquarters 1-707-428-5000. View invention ideas, plus 100+ variations adapted for end user target markets. LicenseItToday.com fills out exclusive international license agreements valid up to December 2026. It saves time and money creative LP. over any other documented creative thinking process. Licensees seek outputted patents using our or their pat attorneys. Royalties can start when profits begin. Or you can buy the affordable I.P. rights. Proof is in tryingit out. Discover amazing inventions inside today.

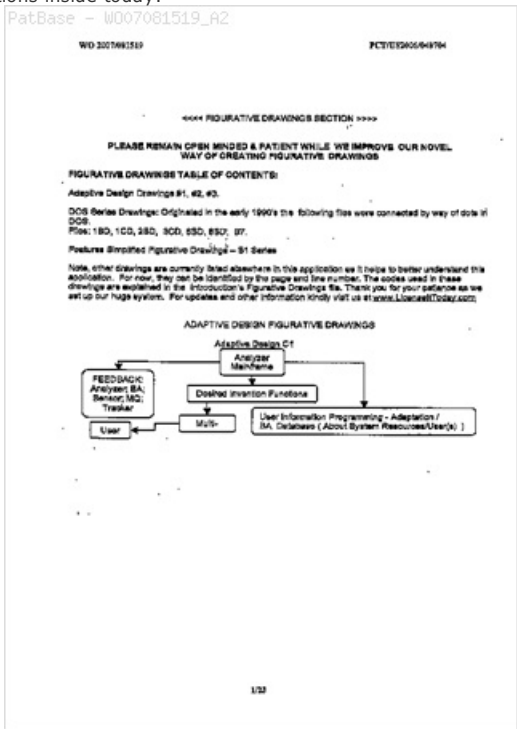
Classifications:

International (ipc 8-9): E06B7/32 G06F17/00 G06F17/30 G06Q G06Q10/00 G06Q30/00 G06Q50/00 (Advanced/Invention)

International (ipc 1-7): G06Q30/00

CPC: G06F8/70 G06F9/445 G06Q10/10 G06F16/00 G06Q30/0601

European: G06Q10/10



Family:

Publication number	Publication date	Application number	Application date
AP200804559 A0	20080831	AP20080004559	20061219
AU2006335151 AA	20070719	AU20060335151	20061219
AU2013200386 AA	20130221	AU20130200386	20130125
CA2635954 AA	20080630	CA20062635954	20061219
CO6160255 A2	20100520	CO20080079355	20080731
EP2059899 A2	20090520	EP20060849217	20061219
EP2059899 A4	20120704	EP20060849217	20061219
IL192465 A0	20090922	IL20060192465	20061219
IN06638DN2008 A	20100507	IN2008DN06638	20080730
JP2009522654 T2	20090611	JP20080548620T	20061219
KR20080112193 A	20081224	KR20087018774	20061219
KR20130124572 A	20131114	KR20137024611	20061219
MX2008008625 A1	20090107	MX20080008625	20061219
NZ570109 A	20110826	NZ20060570109	20061219
WO07081519 A2	20070719	WO2006US48704	20061219
WO07081519 C1	20080612	WO2006US48704	20061219

Priority:

US20050755291P 20051230 US20060756607P 20060105 US20060778313P 20060301
US20060783018P 20060315 US20060786906P 20060328 US20060852794P 20061018
AU20060335151 20061219 WO2006US48704 20061219 AU20130200386 20130125

Probable Assignee: INNOVATION INST LLC

Assignee(s): (std): CABINALLA LINDA ; INNOVATION INST LLC ; KAYS STEVEN ; WORLD CHARITY DIVISION LICENSE ; STEVEN KAYS

Assignee(s): WORLD CHARITY DIVISION LICENSELTTODAYCOM LLC ; WORLD CHARITY DIVISION LICENSELTTODAY COM LLC ; INNOVATION INSTITUTE LLC

Inventor(s): (std): CABINALLA LINDA ; KAYS STEVEN

Inventor(s): STEVEN KAYS

Agent(s): SHELSTON IP; KAYS STEVEN; INNOVATION INSTITUTEION LLC; BORDEN LADNER GERVAIS LLP; MAURICIO JARAMILLO CAMPUZANO; BEETZ AND PARTNER

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

11) Family number: 52842148 (CN102877678A)

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Title: REMOTE-CONTROL PARKING LOT BARRIER

Abstract: The invention discloses a remote-control parking lot barrier comprising a base, a barrier arm, a rotary shaft, a transmission shaft and a motor. The rotary shaft is fixedly connected with the barrier arm, a shaft bushing capable of rotating relative to the rotary shaft is sleeved in the middle of the rotary shaft, a torsion spring is sleeved on the shaft bushing, radial positioning pins are fixed on the rotary shaft on two sides of the shaft bushing, radial positioning projections are arranged at two ends of the shaft bushing, and the radial positioning projections and the radial positioning pins on the same side are respectively abutted against one end of the torsion spring. A second driving gear is sleeved on the transmission shaft, a second driven gear is fixed on the shaft bushing, the second driving gear can rotate relative to the transmission shaft, an arc-shaped eccentric hole is arranged on an end face of the second driving gear, a crank arm is fixed on the transmission shaft, and the upper end of the crank arm is inserted into the eccentric hole of the second driving gear. A movable locking block is provided with a positioning groove capable of matching with the radial locking projections so that the shaft bushing can be locked with the base. The remote-control parking lot barrier is low in energy consumption and has a bidirectional anti-collision function so that an automobile and the parking lot barrier can be effectively protected against damages.

Classifications:

International (IPC 8-9): E04H6/42 (Advanced/Invention)

PatBase - CN102877678_A

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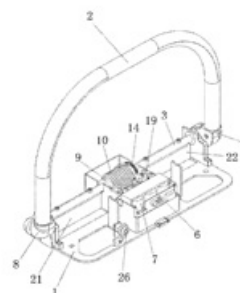


图1

Family:

Publication number	Publication date	Application number	Application date
CN102877678 A	20130116	CN201210368266	20120928
CN102877678 B	20140709	CN201210368266	20120928
CN202850556 U	20130403	CN201220502268U	20120928

Priority:

CN201210368266 20120928 CN201220502268U 20120928

Probable Assignee: LOCK XIAMEN ELECTRONIC TECHNOLOGY CO LTD P

Assignee(s): (std): LOCK XIAMEN ELECTRONIC TECHNOLOGY CO LTD P

Assignee(s): P LOCK XIAMEN ELECTRONIC TECHNOLOGY CO ; P LOCK XIAMEN ELECTRONIC TECHNOLOGY CO LTD

Inventor(s): (std): MEI JIANYU ; YE YUANSHI

12) Family number: 70603151 (IN201721002304A)

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Title: HIGH SECURITY RFID ENABLED VEHICLE REGISTRATION PLATE

Abstract: The present disclosure relates to vehicle registration plate. In particular, the present disclosure pertains to a system and method for high security RFID enabled registration plate with embedded interruption on removal of RFID component. In an aspect, a tamper detection system for establishing identity of an object can include an identity tag that is connected to one or more surfaces of the object indicative of identity associated with the object and an electronic device tag having a chip and an antenna loop. In an aspect, a part of the antenna loop can be coupled with the one or more surfaces of the object and at least a part of the chip is coupled with the identity tag such that during tampering and/or removal of the identity tag a connection between the chip and the antenna loop is interrupted and the electronic device tag is disabled.

Classifications:

International (IPC 8-9): G06F21/00 G06K19/00 H01Q1/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201721002304 A	20180727	IN201721002304	20170120

Priority:

IN201721002304 20170120

Probable Assignee: KHARATMAL NAREN CHANDRAKANT

Assignee(s): KHARATMAL NAREN CHANDRAKANT

Inventor(s): KATKE SHILPA NITINKUMAR ; KHARATMAL NAREN CHANDRAKANT

13) Family number: 62911168 (US2016203721A)

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Title: TRAINABLE TRANSCEIVER WITH SINGLE CAMERA PARK ASSIST

Abstract: A trainable transceiver for controlling a device and providing vehicle position information to a vehicle occupant includes a transceiver circuit, an output device, and a control circuit coupled to the transceiver circuit and the output device. The control circuit is configured to receive, using the transceiver circuit or a secondary transceiver, image data corresponding to a position of the vehicle. The control circuit is further configured to determine a vehicle position status based on the image data and to control the output device to convey information to the vehicle occupant based on the vehicle position status.

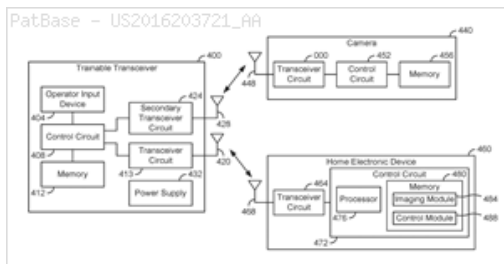
Classifications:

International (IPC 8-9): B60R1/00 B62D15/02 G08C17/02 G08G1/04 G08G1/0962 G08G1/16 H04N7/18 (Advanced/Invention)

CPC: G08G1/168 B60R1/00 H04N7/183 H04N7/18 B62D15/027

G08G1/163 G08G1/04

US: 348/118



Family:

Publication number	Publication date	Application number	Application date
CN107251120 A	20171013	CN201680010749	20160108
EP3243194 A2	20171115	EP20160735487	20160108
EP3243194 A4	20171227	EP20160735487	20160108
EP3243194 B1	20190508	EP20160735487	20160108
US2016203721 AA	20160714	US20160991446	20160108
WO16112311 A2	20160714	WO2016US12679	20160108
WO16112311 A3	20160901	WO2016US12679	20160108

Priority:

US20150101740P 20150109 US20160991446 20160108 WO2016US12679 20160108

Probable Assignee: GENTEX CORP

Assignee(s): (std): GENTEX CORP

Inventor(s): (std): WRIGHT THOMAS S ; GEERLINGS STEVEN L ; BOSTROM DAVID M ; GEERLING STEVEN L

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; RAWLINS ANDREW E ET AL

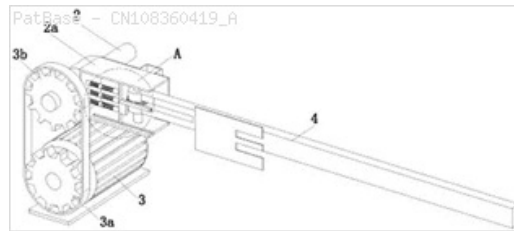
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX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

14) Family number: 70660183 (CN108360419A)

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Title: ANTI-COLLISION ANTI-BREAK BARRIER GATE OF UNDERGROUND PARKING LOT

Abstract: The invention relates to the field of parking lot management, in particular to an anti-collision anti-break barrier gate of an underground parking lot. The anti-collision anti-break barrier gate comprises an installation cabinet, an open gate bin, an open gate motor, a barrier gate lever and a buffer assembly. The barrier gate lever is made of a flexible rubber material, a gate starting shaft is hinged to the top end of the installation cabinet, one end of the open gate bin is fixedly connected with the gate starting shaft, the open gate motor is located below the open gate bin and is in transmission connection with the gate starting shaft, and a linkage shaft is hinged to the other end of the open gate bin. One end of the barrier gate lever sleeves the linkage shaft. The buffer assembly includes a buffer block, limiting teeth and a plurality of spring parts. The buffer block and the limiting teeth are symmetrically arranged on the periphery of the linkage shaft, the buffer block is elastically connected with the inner wall of the open gate bin through the plurality of spring parts, and the linkage shaft is sleeved with a linkage tooth ring. When a vehicle slides down, the barrier gate lever is not subjected to scraping with the vehicle and breaking, a certain time is given to people in the vehicle for adjustment by cooperation with the vehicle through the characteristics and rotation of the barrier gate lever, and the damage rate of the barrier gate lever and the vehicle is reduced.

Classifications:**International (IPC 8-9):** E01F13/06 (Advanced/Invention)**CPC:** E01F13/06**Family:**

Publication number	Publication date	Application number	Application date
CN108360419 A	20180803	CN201810332561	20180413

Priority:

CN201810332561 20180413

Probable Assignee: WUXI BORUI ENTPR SERVICE CONSULTATION CO LTD**Assignee(s):** (std): WUXI BORUI ENTPR SERVICE CONSULTATION CO LTD**Assignee(s):** WUXI CITY BO RUI ENTERPRISE SERVICE CONSULTING CO ; WUXI BORUI ENTERPRISE SERVICE CONSULTATION CO**Inventor(s):** (std): WANG JIAHU**15) Family number: 32562187** (US2001051905A)

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Title: INVENTORY CONTROL SYSTEM AND METHODS

Abstract: A system and method which allows third-parties to monitor company inventory via the Internet and World Wide Web ("web") and automatically order needed items. The present invention also provides a forum through which resellers and customers may directly interact to resell surplus and used equipment. The present invention may also allow a third party to act as a broker, thereby assuring that both the equipment purchased is actually delivered, and that the seller is properly compensated.

Classifications:**International (IPC 8-9):** A01K5/02 G01C7/00 G01M17/00 G05B19/00 G06F17/00 G06F17/50 G06F17/60 G06F7/00 G06G1/14 G06Q10/00 G06Q10/06 G06Q10/08 G06Q20/00 G06Q30/00 G06Q30/06

G06Q50/00 G08B13/14 (Advanced/Invention);

G06Q50/00 (Advanced/Non-invention);

G01M17/00 G06F17/00 G06Q10/00 G06Q30/00

G06Q50/00 (Core/Invention);

G06Q (Subclass/Invention)

International (IPC 1-7): G06F17/30 G06F17/60 G06G1/14**CPC:** G06Q30/02 G06Q30/0213 G06Q30/0603 G06Q20/203

Y02A90/26 G06Q10/08 G06Q10/087 G06Q10/06 G06Q10/0875

G06Q30/0601 G06Q30/0613

European: G06F17/60C4 G06Q10/06 G06Q10/08 G06Q10/087

G06Q10/0875 G06Q10/08E G06Q20/203 G06Q30/02 G06Q30/0213

G06Q30/0601 G06Q30/0603 G06Q30/0613 G06Q30/06C

US: 235/385 235/385P 340/5.92 340/5.920S 340/572.1

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700/216S 700/233 700/233S 700/236 700/236S 700/237 700/237S

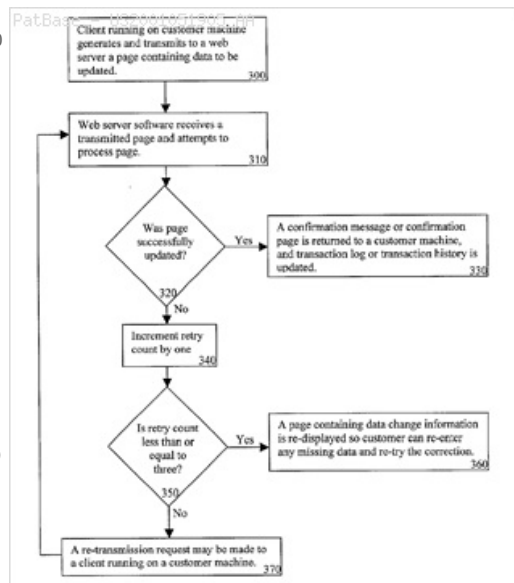
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705/26.41 705/26P 705/27 705/27P 705/28 705/28P 705/28S 705/29

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707/999.104S 707/999.107 707/999.107S

**Family:**

Publication number	Publication date	Application number	Application date
AU2001249104 AA	20010917	AU20010249104	20010307
AU200149104 A1	20010917	AU20010049104	20010307
AU200149104 A5	20010917	AU20010049104	20010307
AU2007205715 AA	20070830	AU20070205715	20070809

AU2007205715 BB	20101223	AU20070205715	20070809
BRPI0109095 A	20040629	BR2001PI09095	20010307
CA2402350 AA	20020906	CA20012402350	20010307
CN1427974 A	20030702	CN20018008966	20010307
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EP1281142 A4	20060111	EP20010922287	20010307
EP1766330 A2	20070328	EP20050762632	20050616
EP1766330 A4	20100106	EP20050762632	20050616
JP2003526166 T2	20030902	JP20010565098T	20010307
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KR20020092978 A	20021212	KR20027011724	20010307
MXPA02008814 A1	20041015	MX2002PA08814	20010307
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US2004230503 AA	20041118	US20040873183	20040623
US2005197929 AA	20050908	US20050051985	20050127
US2006020512 AA	20060126	US20050153849	20050616
US2006038010 AA	20060223	US20050208004	20050822
US2006041329 AA	20060223	US20050258143	20051026
US2006100937 AA	20060511	US20050258140	20051026
US2006116936 AA	20060601	US20050258052	20051026
US2007055586 AA	20070308	US20060443489	20060531
US2007124216 AA	20070531	US20070657584	20070125
US2007219916 AA	20070920	US20070711884	20070228
US2007239569 AA	20071011	US20070703207	20070207
US2008228346 AA	20080918	US20080073575	20080306
US6996538 BB	20060207	US20010799879	20010307
US6996538 C1	20141124	US20010799879	20010307
US8019662 BB	20110913	US20050208004	20050822
WO0167356 A1	20010913	WO2001US07253	20010307
WO06007414 A2	20060119	WO2005US21398	20050616
WO06007414 A3	20070719	WO2005US21398	20050616

Priority:

US20000187389P	20000307	AU20010049104	20010307	AU20010249104	20010307
KR20027011724	20010307	US20010799879	20010307	WO2001US07253	20010307
US20040579814P	20040616	US20040873183	20040623	US20050051985	20050127
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US20060761757P	20060125	US20060765737P	20060207	US20060780289P	20060309
US20060786371P	20060328	US20060443489	20060531	US20070657584	20070125
US20070703207	20070207	US20070711884	20070228	US20070905046P	20070306
AU20070205715	20070809	US20080073575	20080306		

Probable Assignee: UNISONE CORP

Assignee(s): (std): FLORES GERARDO ; INVINITY SYSTEMS CORP ; LUCAS MICHAEL ; LUCAS MICHAEL T ; PINNAM VENKATA R ; UNISONE CORP ; PINNAM VENKATA RAMANA ; UNISONE STRATEGIC IP INC ; TRUONG MATT

Assignee(s): RJ CARNEY LIVING TRUST ; CAPITAL MANAGERS LLC

Inventor(s): (std): PINNAM VENKATA R ; PINNAM VENKATA RAMANA ; TRUONG MATT ; LUCAS MICHAEL ; LUCAS MICHAEL T ; M LUCAS ; LUCAS M ; FLORES GERARDO

Inventor(s): PINNAM VENKATA ; MICHAEL T LUCAS ; MICHAEL LUCAS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; KIRBY EADES GALE BAKER; OHTSUKA SUMIE; CHIBA AKIO; ONO SHINJIRO; SHAMOTO ICHIO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; GARY M NATH NATH AND ASSOCIATES PLLC; NATH AND ASSOCIATES PLLC; NATH AND ASSOCIATES; GARY M NATH NATH LAW GROUP; LEE C; GREGORY B

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

16) Family number: 67232194 (US2017297490A)

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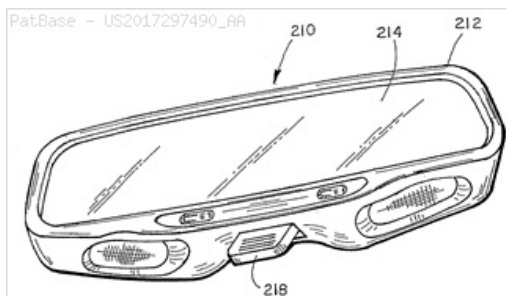
Title: REAR SEAT OCCUPANT MONITORING SYSTEM FOR VEHICLE

Abstract: A rear seat occupant monitoring system for a vehicle includes a video display screen disposed in the vehicle cabin so as to be viewable by a driver of the vehicle. A camera is disposed a dome light or an overhead console. The dome light or overhead console includes first and second illumination sources that, when operated, illuminate a rear seat area within the field of view of the camera. The first illumination source principally emits visible light when electrically powered, and the second illumination source principally emits non-visible light when electrically powered. The camera captures image data representative of the rear seat area when the rear seat area is illuminated by at least one of the first and second illumination sources. Image data captured by the camera is provided to the video display screen for displaying video images for viewing by the driver of the vehicle.

Classifications:

International (IPC 8-9): B60D1/36 B60D1/58 B60K35/00 B60K37/06 B60Q1/26 B60Q1/32 B60Q3/02 B60Q3/258 B60Q3/64 B60Q3/74 B60Q3/82 B60R1/00 B60R1/04 B60R1/12 B60R11/02 B60R11/04 G06K9/00 G06K9/78 G09G3/34 G09G3/36 H04N5/225 H04N5/232 H04N5/235 H04N5/33 H04N5/374 H04N7/18 (Advanced/Invention); B60R11/00 G02B27/00 G02B27/01 G02B6/00 (Advanced/Non-invention)
CPC: B60R1/00 H04N7/183 B60Q3/82 H04N5/2354 H04N5/23293 H04N5/2256 G06K9/78 G06K9/00838 G06K9/00771 H04N5/332 B60Q3/74 B60R1/04 B60R1/12 B60Q2500/00 B60R2001/1253 B60R2300/8006 B60D1/36 B60D1/58 B60K35/00 B60K37/06 B60K2350/1024 B60K2350/1028 B60Q1/2665 B60Q1/323 B60Q3/258 B60Q3/64 B60R1/003 B60R1/1207 B60R11/0235 B60R11/04 B60R2011/0026 B60R2011/0033 B60R2011/0082 B60R2011/0084

B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294
 B60R2300/10 B60R2300/20 B60R2300/308 B60R2300/808 G02B6/00
 G02B2027/0118 G02B2027/012 G09G3/3406 G09G3/3648
 G09G2320/0626 G09G2380/10 H04N5/374 Y10S362/80
 B60K2370/143 B60K2370/1438
US: 348/148



Family:

Publication number	Publication date	Application number	Application date
US2017297490 AA	20171019	US20170638662	20170630
US10272839 BB	20190430	US20170638662	20170630

Priority:

US20010263680P 20010123	US20010271466P 20010226	US20010793002 20010226
US20010315384P 20010828	US20020346733P 20020107	US20020054633 20020122
US20070623997 20070117	US20080043567 20080306	US20080061372 20080402
US20090609329 20091030	US20110309915 20111202	US20140181778 20140217
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Probable Assignee:

MAGNA ELECTRONICS INC

Assignee(s): (std):

MAGNA ELECTRONICS INC

Inventor(s): (std):

LYNAM NIAL R ; LINDAHL JOHN O

Agent(s):

HONIGMAN LLP

17) Family number: 29050196 (US2003169213A)

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Title: ENHANCED VISION FOR DRIVING

Abstract: A system for imposing a filter between a vehicle driver's eyes and a source of light including at least one detector facing inward into a compartment in the vehicle toward a likely position of the head of the vehicle driver and arranged to obtain images of the eyes of the driver and a processor coupled to the detector(s) and arranged to determine the location of the driver's eyes based on analysis of the images obtained by the detector(s) and to obtain information about objects exterior of the vehicle providing sources of light from the images obtained by the detector(s) based on reflections off of the driver's eyes, i.e., the position of such objects. A filter, such as a pixelated screen, is imposed between the sources of light and the driver's eyes based on the location of the driver's eyes and the information about the exterior objects providing the sources of light.

Classifications:

International (IPC 8-9): G02B27/00 G02B27/01 G02B5/20
 G09G5/00 (Advanced/Invention)

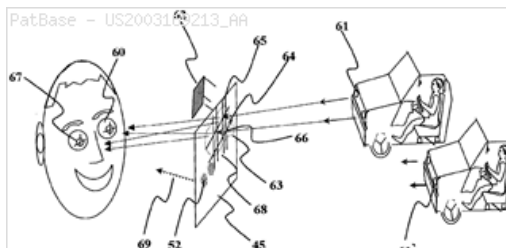
International (IPC 1-7): B60J3/04 G09G5/00

CPC: B60K35/00 G02B27/01 G02B5/20 G02B27/0093

G02B2027/0118 G02B2027/014 G02B2027/0187

European: G02B27/00T G02B27/01 G02B5/20 S02B27/01A11
 S02B27/01A4 S02B27/01D4

US: 250/203.4 345/7 345/7P 359/601



Family:

Publication number	Publication date	Application number	Application date
AU2003214595 AA	20030916	AU20030214595	20030307
US2003169213 AA	20030911	US20030383997	20030307
US7199767 BB	20070403	US20030383997	20030307
WO03074307 A1	20030912	WO2003IL00179	20030307
WO03074307 C1	20040408	WO2003IL00179	20030307

Priority:

US20020362078P 20020307	US20020384845P 20020604	US20030383997 20030307
WO2003IL00179 20030307		

Probable Assignee:

SPERO YECHEZKAL EVAN

Assignee(s): (std):

SPERO YECHEZKAL EVAN

Inventor(s): (std):

SPERO YECHEZKAL EVAN

Inventor(s):

YECHEZKAL EVAN SPERO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK
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18) Family number: 54183200 (WO13093163A1)

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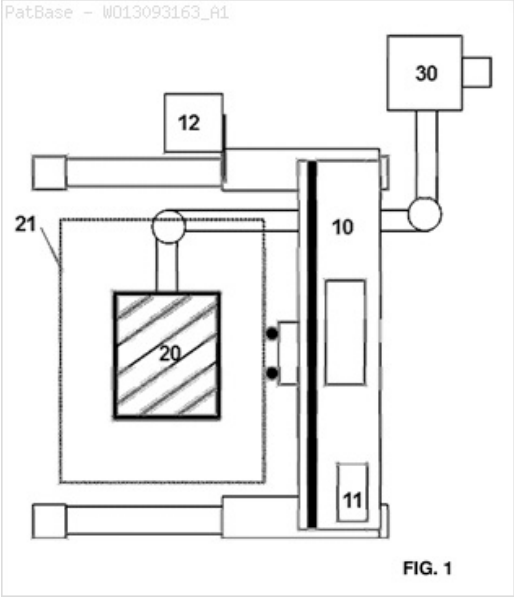
Title: SYSTEM FOR ACTIVE AND IMMEDIATE DETECTION AND PREVENTION OF RISKS IN INDUSTRIAL MACHINERY

Abstract: The present invention relates to a system for detecting and preventing occupational risks or hazards in industrial machinery by means of continuous visual monitoring of the operating environment of the machinery and analysing the video images captured, which includes for such purpose at least one camera capable of jointly covering the working area taken up

by the machinery and the safety environment thereof. The digital information obtained from said one or more cameras enables detailed observation of the events that occur in said first working area and said safety environment. The system also includes a control module which analyses the information from the camera or cameras and which determines the existence of occupational risks in the monitored industrial environment. Said control module is also responsible for sending the signal, when necessary, to lock or unlock the industrial machinery, according to the safety level of the safety environment, the condition of the machinery and the existence of occupational risks, in order to prevent industrial accidents.

Classifications:

International (IPC 8-9): B21D55/00 B25J19/06
F16P3/14 (Advanced/Invention)
CPC: B25J19/06 F16P3/142 B21D55/00 F16P3/14



Family:

Publication number	Publication date	Application number	Application date
ES2421285 AA	20130830	ES20110032098	20111223
ES2421285 B8	20150327	ES20110032098	20111223
ES2421285 BA	20141104	ES20110032098	20111223
WO13093163 A1	20130627	WO2012ES70891	20121220

Priority:

ES20110032098 20111223

Probable Assignee: UNIV EXTREMADURA

Assignee(s): (std): UNIV EXTREMADURA

Assignee(s): UNIVERSIDAD DE EXTREMADURA

Inventor(s): (std): FERNANDEZ MUNOZ JUAN ALVARO ; MORENO RABEL MARIA DOLORES

Inventor(s): JUAN ALVARO FERNANDEZ MUNOZ ; MARIA DOLORES MORENO RABEL

Agent(s): CARPINTERO MARIO; CARPINTERO LOPEZ MARIO

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

19) Family number: 68719220 (US2018056872A)

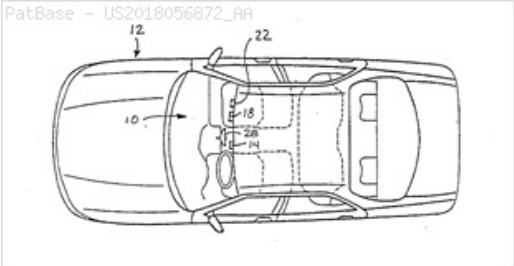
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Title: PARK-AID SYSTEM FOR VEHICLE

Abstract: A park-aid system for a vehicle includes a forward-viewing color video camera and at least three other color video cameras, with a first one of the three other color video cameras having a field of view at the driver-side of the vehicle and a second one of the three other color video cameras having a field of view at the passenger-side of the vehicle. A video display screen is viewable by a driver of the vehicle. During a parking maneuver of the vehicle, images derived, at least in part, from image data captured by at least the forward-viewing camera are displayed by the video display screen to assist the driver in operating the vehicle. At least one indication may be provided to the driver of the vehicle during the parking maneuver.

Classifications:

International (IPC 8-9): B60C23/04 B60N2/44 B60N2/90 B60Q1/26 B60Q5/00 B60Q9/00 B60R1/00 B60R1/08 B60R1/12 B60R11/04 G01C21/00 G01C21/36 G01S13/86 G01S19/48 G06K9/00 G06Q20/00 G06T5/00 H04N5/232 H04N5/247 H04N5/265 H04N7/18 (Advanced/Invention); G01C21/20 G01C21/26 G01S5/14 (Advanced/Non-invention)
CPC: B60R1/00 B60R2300/105 B60C23/0408 H04N5/265 H04N5/247 H04N5/23293 H04N7/181 B60Q1/2665 B60Q5/006 B60Q9/00 B60R1/088 B60R1/12 B60R11/04 G01C21/00 G01C21/36 G01C21/365 G01S13/862 G06T5/006 G06K9/00805 G01S13/867 G01S13/865 B60R2300/8093 B60R2001/1215 G01C21/20 G01C21/26 B60R2001/1253 G06T2207/30252 B60R2300/207 B60R2300/301 B60R2300/406 B60R2300/806 B60R2300/8066 H04N7/183 B60N2/976



Family:

Publication number	Publication date	Application number	Application date
US2018056872 AA	20180301	US20170803946	20171106
US10179545 BB	20190115	US20170803946	20171106

Priority:

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US20000234412P 20000921	US20000237077P 20000930	US20000238483P 20001006
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US20170803946 20171106		

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): MAGNA ELECTRONICS INC

Inventor(s): (std): LYNAM NIAL R ; MCCARTHY KEVIN C ; SCHOFIELD KENNETH ; TAYLOR DAVID W

Agent(s): HONIGMAN MILLER SCHWARTZ AND COHN LLP

20) Family number: 33075233 (US2006125615A)
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Title: VEHICLE ACCELERATOR AND BRAKE INDICATORS

Abstract: An improved accelerator and brake indicators for vehicles. Visual indicators of braking, coasting and acceleration are visible from the front, sides and rear of a vehicle. Such indicators may be used on any type of vehicle including cars, trucks, trailers, airplanes, motorcycles, bicycles, toy vehicles, etc. An accelerator indicator may be blue, green or any other color. An external accelerator indicator is not visible to an operator, and does not interfere with nighttime operation of vehicles. One or more indicator hues are chosen so as to be esthetically pleasing. Indicator design and placement are also chosen so as to be esthetically pleasing. Indicators are suitable for installation into any existing or future style of motor vehicle. Indicators may be positioned upon a motor vehicle in conventional and non-conventional locations. Preferentially, accelerator, brake, and running indicators comprise a housing including a reflective shell and one or more translucent lenses forming a sealed enclosure, a connector or socket, a removable light bulb or light emitting element, a means to electrically connect a socket to the brake light electrical system, and a means to electrically connect a socket to a sensor attached to the accelerator system of a motor vehicle.

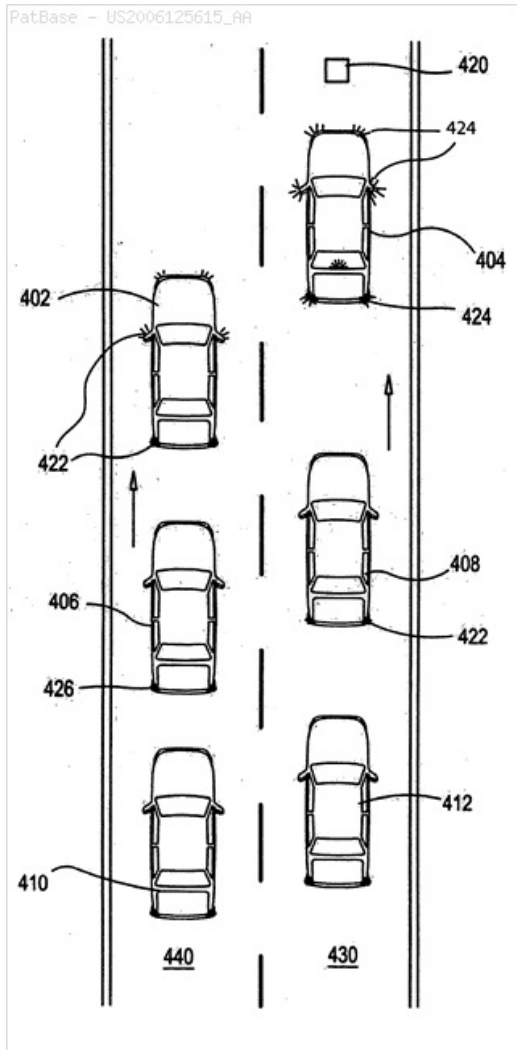
Classifications:

International (IPC 8-9): B60Q1/22 B60Q1/26 B60Q1/44 B60Q1/50 B60Q1/52 (Advanced/Invention); B60Q1/02 B60Q1/26 B60Q1/44 B60Q1/50 (Core/Invention)

CPC: B60Q1/38 B60Q1/44 B60Q1/46 B60Q1/442

European: B60Q1/38 B60Q1/44 B60Q1/44C B60Q1/46

US: 340/463 340/463P 340/467 340/468 340/468S 340/469 340/469S 340/471 340/471S 340/479



Family:

Publication number	Publication date	Application number	Application date
US2006125615 AA	20060615	US20040999443	20041129
US2006125616 AA	20060615	US20050180431	20050713
US2006192665 AA	20060831	US20050057970	20050215

Priority:

US20040999443 20041129	US20050057970 20050215	US20050180431 20050713
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Probable Assignee: SONG WON M
Assignee(s): (std): SONG WON M
Inventor(s): (std): SONG WON M
Inventor(s): SONG WON MOO ; SONG WON
Agent(s): CARSTENS AND CAHOON LLP

21) Family number: 32301238 (US2005224313A)

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Title: ROBUST NONCONTACT MEDIA PROCESSOR

Abstract: Disclosed is a media processor that may be used for controlling access to a location, such as a transit system or an amusement park. The media processor also may be used to encode information onto the token, sort a plurality of tokens, and issue tokens that have value. In one aspect of the disclosure, a media processor is disclosed for reading from, writing to, or sorting media, wherein the media processor includes an entry bezel for accepting media into the media processor, a transmitter and receiver for reading from, writing to, or sorting the media, at least one exit path for the media to exit the media processor, and a rotatable disk for moving the media from the entry bezel to the transmitter and receiver and to the at least one exit path.

Classifications:

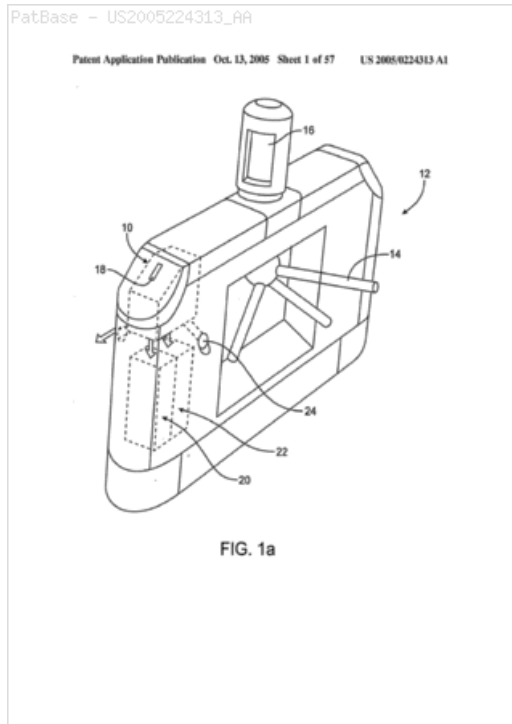
International (IPC 8-9): G07C9/02 G07F1/06 G07F7/00 G07F7/02 G11B17/22 G11B21/08 G11B33/02 G11B7/085 (Advanced/Invention); G07C9/02 G07F1/00 G07F7/00 G11B17/22 G11B21/08 G11B33/02 G11B7/085 (Core/Invention)

International (IPC 1-7): G07F7/00 G11B17/22 G11B21/08 G11B7/085

CPC: G07C9/025 G07C2011/02 G07F1/06 G07F7/02 G11B33/02

European: G07C9/02B G07F1/06 G07F7/02 G11B33/02 S07C11/02

US: 194/211 G9B/33.002 G9B/33.002S



Family:

Publication number	Publication date	Application number	Application date
US2005224313 AA	20051013	US20040938764	20040909

Priority:

US20040539289P 20040126 US20040938764 20040909

Probable Assignee: CUBIC CORP
Assignee(s): (std): CUBIC CORP
Inventor(s): (std): HILTON GRAHAM ; LO PETER
Agent(s): TOWNSEND AND TOWNSEND AND CREW LLP

22) Family number: 54082239 (US2002159270A)

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Title: VEHICULAR LIGHTING SYSTEM

Abstract: An improved vehicle lighting system for a vehicle is provided. The lighting system includes a light assembly, which is configured so as to illuminate, for example, a ground area adjacent an entrance to the vehicle or an interior portion of the vehicle. The light assembly includes a single non-incandescent light source, which comprises a single high-intensity power light emitting diode. The single high-intensity power light emitting diode preferably has a luminous efficiency of at least about 1 lumen per watt when the single high-intensity power light emitting diode is operated and wherein the single high-intensity power light emitting diode is preferably operated at a forward current of at least 100 milliamperes. The single high-intensity power light emitting diode is preferably provided with a heat dissipation element, which functions as at least one of a heat sink and a heat dissipater for the power dissipated by the single high-intensity power light emitting diode. The single high-intensity power light emitting diode operates at an operational voltage that is less than the battery/ignition voltage of the vehicle. Preferably the light assembly is provided with at least one of a series power resistor and a DC voltage to DC voltage converter.

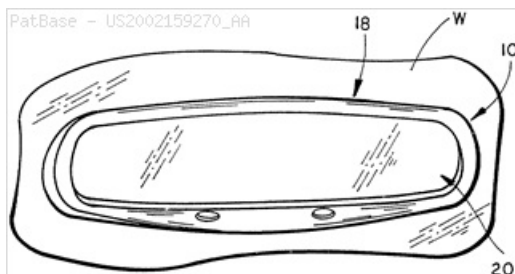
Classifications:

International (IPC 8-9): B60Q1/26 B60Q1/32 B60Q3/02 B60R1/12 B60R11/02 B60R11/04 F21V29/00 (Advanced/Invention); B60R11/00 G02B27/00 G02B6/00 (Advanced/Non-invention)

International (IPC 1-7): B60Q1/00

CPC: B60D1/58 B60R2300/808 H04N7/183 B60K35/00 B60K37/06 B60Q1/2665 B60Q1/323 B60R1/12 B60R1/1207 B60R11/0235 B60R11/04 B60R2011/0026 B60R2011/0033 B60R2011/0082

B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288
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 B60Q3/258 B60Q3/64 B60Q3/74 B60Q3/82 B60Q2500/00 B60R1/04
 B60R2001/1253 B60R2300/8006 G06K9/00771 G06K9/00838
 G06K9/78 H04N5/2256 H04N5/23293 H04N5/2354 H04N5/332
 B60R1/00 B60R1/003 B60K2370/143 B60K2370/1438
European: B60K35/00 B60K37/06 B60Q1/26J2 B60Q1/32D
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 S02B6/00
US: 362/294 362/300 362/373 362/492 362/494 362/800



Family:

Publication number	Publication date	Application number	Application date
US2002159270 AA	20021031	US20020054633	20020122
US7195381 BB	20070327	US20020054633	20020122

Priority:

US20010263680P 20010123 US20010271466P 20010226 US20010793002 20010226
 US20010315384P 20010828 US20020346733P 20020107 US20020054633 20020122

Probable Assignee:

DONNELLY CORP

Assignee(s): (std):

DONNELLY CORP

Assignee(s):

LINDAHL JOHN O ; LYNAM NIAL R

Inventor(s): (std):

LYNAM NIAL R ; LINDAHL JOHN O

Agent(s):

VANDYKE GARDNER LINN AND BURKHART LLP

23) Family number: 54082244 (US2007109807A)

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Title: LIGHTING SYSTEM FOR A VEHICLE

Abstract: A lighting system for a vehicle comprises a sealed unitary light module including at least one high-intensity power light emitting diode operates with a luminous efficiency of at least about 7 lumens per watt when passing a forward current of at least about 350 milliamps and that emits a luminous flux of at least about 25 lumens when operated at its operating voltage. The sealed unitary light module is removable as a unit from the vehicle and includes a heat dissipating element and a lens.

Classifications:

International (IPC 8-9): B60Q1/00 B60Q1/26 B60Q1/32 B60Q3/00
 B60Q3/02 B60R1/12 B60R11/02 B60R11/04 F21S8/10
 F21V7/20 (Advanced/Invention);

B60R11/00 G02B27/00 G02B6/00 (Advanced/Non-invention)

CPC: B60D1/58 B60R2300/808 H04N7/183 B60K35/00 B60K37/06

B60Q1/2665 B60Q1/323 B60R1/12 B60R1/1207 B60R11/0235

B60R11/04 B60R2011/0026 B60R2011/0033 B60R2011/0082

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Y10S362/80 B60R2300/10 B60R2300/20 B60R2300/308 G09G3/3406

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B60Q3/258 B60Q3/64 B60Q3/74 B60Q3/82 B60Q2500/00 B60R1/04

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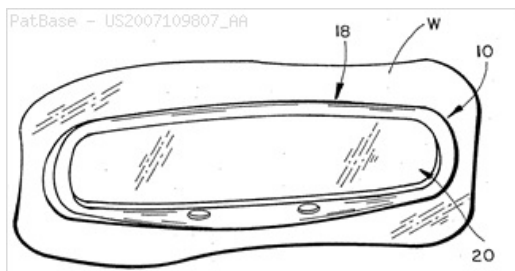
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European: B60K35/00 B60K37/06 B60Q1/26J2 B60Q1/32D B60Q3/00L1 B60Q3/02B12 B60R1/12 B60R1/12A B60R11/02E2

B60R11/04 L60K350/10J5 L60K350/10J5D L60R11/00P1K L60R11/00P1P L60R11/00R6A L60R11/00R6C L60R11/00R6D3

L60R11/02S L60R11/02T L60R11/02W S02B27/01A4 S02B27/01A4A S02B6/00

US: 257/79 362/294 362/345 362/373 362/487 362/545 362/547



Family:

Publication number	Publication date	Application number	Application date
US2007109807 AA	20070517	US20070623997	20070117
US7344284 BB	20080318	US20070623997	20070117

Priority:

US20010263680P 20010123 US20010271466P 20010226 US20010793002 20010226
 US20010315384P 20010828 US20020346733P 20020107 US20020054633 20020122
 US20070623997 20070117

Probable Assignee:

DONNELLY CORP

Assignee(s): (std):

DONNELLY CORP

Inventor(s): (std):

LYNAM NIAL R ; LINDAHL JOHN O

Inventor(s):

LINDAHL JOHN ; LYNAM NIAL

Agent(s):

VAN DYKE GARDNER LINN AND BURKHART LLP; VANDYKE GARDNER LINN AND BURKHART LLP

24) Family number: 56884245 (US2014192181A)

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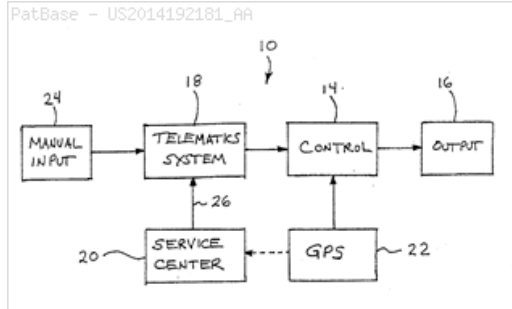
Title: DRIVER ASSIST SYSTEM FOR VEHICLE

Abstract: A driver assist system for a vehicle includes a camera and a control having an image processor, which processes image data captured by the camera. At least one non-visual sensor is operable to detect objects external of the vehicle and to provide non-visual sensor data to the control. During at least one of (i) a reversing maneuver and (ii) a parking maneuver, images derived, at least in part, from image data captured by the camera are displayed by a video display screen that is viewable by the driver to assist the driver in operating the vehicle. The control provides an indication to the vehicle driver, with the indication including at least one of (i) a visual indication displayed by the video display screen and (ii) an

audible indication. The indication is provided, at least in part, responsive to detection by the non-visual sensor of an object external of the vehicle.

Classifications:

International (IPC 8-9): B60C23/04 B60N2/44 B60N2/90 B60Q1/26 B60Q9/00 B60R1/00 B60R1/08 B60R1/12 B60R11/04 G01C21/00 G01C21/36 G01S19/48 G06K9/00 G06Q20/00 H04N7/18 (Advanced/Invention); G01C21/20 G01C21/26 G01S5/14 (Advanced/Non-invention)
CPC: G06K9/00805 G01C21/00 G01C21/20 G01C21/26 B60C23/0408 B60Q1/2665 B60Q9/00 B60R1/088 B60R1/12 B60R2001/1215 B60R2001/1253 B60R2300/8066 G01C21/36 G01C21/365 H04N7/183 B60R1/00 B60Q5/006 B60R11/04 B60R2300/105 B60R2300/301 B60R2300/406 G01S13/862 G01S13/865 G01S13/867 H04N7/181 B60R2300/207 B60R2300/806 B60R2300/8093 G06T5/006 G06T2207/30252 H04N5/23293 H04N5/247 H04N5/265 B60N2/976
US: 340/525 348/118 701/36 701/408 701/409 701/410



Family:

Publication number	Publication date	Application number	Application date
US2014192181 AA	20140710	US20140211256	20140314
US9014966 BB	20150421	US20140211256	20140314

Priority:

US20000186520P 20000302	US20000187960P 20000309	US20000218336P 20000714
US20000234412P 20000921	US20000237077P 20000930	US20000238483P 20001006
US20000243986P 20001027	US20010263680P 20010123	US20010793002 20010226
US20010271466P 20010226	US20010799414 20010305	US20010315384P 20010828
US20020346733P 20020107	US20020054633 20020122	US20020404906P 20020821
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US20100724895 20100316	US20100908481 20101020	US20110209645 20110815
US20120399347 20120217	US20120621382 20120917	US20130033963 20130923
US20140211256 20140314		

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): MAGNA ELECTRONICS INC

Assignee(s): MAGNA MIRRORS OF AMERICA INC ; DONNELLY CORP ; MAGNA DONNELLY CORP

Inventor(s): (std): LYNAM NIAL R ; MCCARTHY KEVIN C ; SCHOFIELD KENNETH ; TAYLOR DAVID W

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

25) Family number: 54082246 (US2007132567A)

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Title: VIDEO MIRROR SYSTEM SUITABLE FOR USE IN A VEHICLE

Abstract: A vehicular video mirror system comprises an interior electrochromic mirror having a transfective mirror reflector and a video screen disposed behind the mirror reflector so that the presence of the video screen is substantially unobservable to a driver of the vehicle until the video screen is actuated to emit light that passes through the electrochromic reflective element to be viewed by the driver of the vehicle. Control circuitry receives a signal indicative of selection of a reverse gear of the vehicle by the driver and actuates the video screen in order to display video images captured by a video imaging device disposed to the rear of the vehicle and having a field of view rearward of and external to the vehicle.

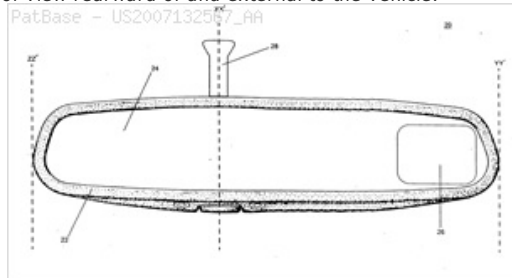
Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00 B60Q1/00 B60Q1/26 B60Q1/50 B60Q1/54 B60Q3/02 B60R1/04 B60R1/12 B60R11/02 B60R11/04 B60S1/08 G02B27/01 G06Q20/00 H04N7/18 (Advanced/Invention); B60R11/00 B60R21/01 B60R21/015 G02B27/00 G02B6/00 (Advanced/Non-invention)

CPC: B60R1/04 B60R1/12 B60S1/0844 B60C23/00 B60C23/0408 B60K35/00 B60K37/06 B60Q1/22 B60Q1/2665 B60Q1/503 B60Q1/54 B60Q3/258 B60R1/06 B60R1/1207 B60R11/0235 B60R11/0241 B60R11/0247 B60R11/04 B60R21/01566 B60R2001/1215 B60R2001/1223 B60R2001/1253 B60R2001/1284 B60R2011/0026 B60R2011/0033 B60R2011/004 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 B60R2300/103 B60R2300/105 B60R2300/106 B60R2300/302 B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053 B60R2300/806 B60S1/0885 G02B6/00 G02B27/01 G02B27/0101 G02B27/0118 G02B27/012 G02B27/012 H04N7/18 B60R2300/10 B60R2300/101 B60R1/02 B60R1/00 B60S1/0822 H04N7/183 B60K2370/143 B60K2370/1438

European: B60C23/00 B60C23/04C B60K35/00 B60K37/06 B60Q1/22 B60Q1/26J2 B60Q1/50A B60Q1/54 B60Q3/02B12 B60R1/00 B60R1/04 B60R1/06 B60R1/12 B60R11/02E2 B60R11/02H B60R11/04 B60S1/08F2 B60S1/08F2D8 B60S1/08F2P6 G02B27/01 G02B27/01A H04N7/18 L60K350/10J5 L60K350/10J5D L60R1/12A L60R1/12B L60R1/12C L60R1/12G L60R1/12L L60R11/00P1K L60R11/00P1P L60R11/00P3 L60R11/00R6A L60R11/00R6C L60R11/00R6D3 L60R11/02G L60R11/02S L60R11/02T L60R11/02W L60R21/015R L60R300/10L L60R300/10M L60R300/10N L60R300/30G L60R300/40W L60R300/80E1 L60R300/80L L60R300/80N L60R300/80P S02B27/01A4 S02B27/01A4A S02B6/00

US: 340/425.5 340/438 348/148 359/838 362/494



Family:

Publication number	Publication date	Application number	Application date
US2007132567 AA	20070614	US20070700363	20070131
US7583184 BB	20090901	US20070700363	20070131

Priority:

US20000186520P 20000302	US20000218336P 20000714	US20000234412P 20000921
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US20010263680P 20010123	US20010793002 20010226	US20040755915 20040113
US20070700363 20070131		

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP

Inventor(s): (std): BINGLE ROBERT L ; LYNAM NIAL R ; O BRIEN FRANK ; SCHOFIELD KENNETH
Inventor(s): LYNAM NIAL R ; BINGLE ROBERT ; O'BRIEN FRANK
Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

26) Family number: 54082248 (US2007171037A)

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Title: VIDEO MIRROR SYSTEM SUITABLE FOR USE IN A VEHICLE

Abstract: A vehicular video mirror system comprises an interior electrochromic mirror having a transfective mirror reflector and a video screen disposed behind the mirror reflector so that its presence is substantially unobservable to a driver of the vehicle until the video screen is actuated to emit light that passes through the electrochromic reflective element to be viewed by the driver of the vehicle. Common control circuit circuitry may control dimming of the electrochromic medium and actuation of the video screen. The control circuitry may receive a signal indicative of selection of a reverse gear of the vehicle by the driver and actuates the video screen in order to display video images captured by a video imaging device disposed to the rear of the vehicle and having a field of view rearward of and external to the vehicle.

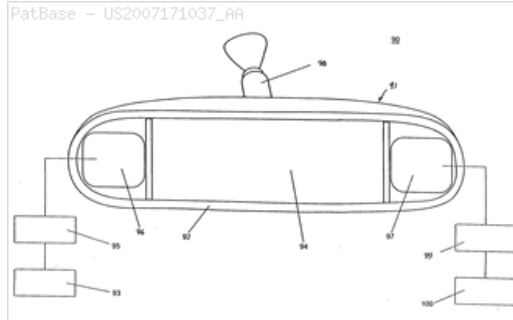
Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00
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B60R1/12 B60R11/02 B60R11/04 B60S1/08 G02B27/01 G06Q20/00
H04N7/18 (Advanced/Invention);
B60R11/00 B60R21/01 B60R21/015 G02B27/00
G02B6/00 (Advanced/Non-invention)

CPC: B60R1/04 B60R1/12 B60S1/0844 B60C23/00 B60C23/0408
B60K35/00 B60K37/06 B60Q1/22 B60Q1/2665 B60Q1/503 B60Q1/54
B60Q3/258 B60R1/06 B60R1/1207 B60R11/0235 B60R11/0241
B60R11/0247 B60R11/04 B60R21/01566 B60R2001/1215
B60R2001/1223 B60R2001/1253 B60R2001/1284 B60R2011/0026
B60R2011/0033 B60R2011/004 B60R2011/0082 B60R2011/0084
B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294
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B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053
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B60R2300/101 B60R1/02 B60R1/00 B60S1/0822 H04N7/183 B60K2370/143 B60K2370/1438

European: B60C23/00 B60C23/04C B60K35/00 B60K37/06 B60Q1/22 B60Q1/26J2 B60Q1/50A B60Q1/54 B60Q3/02B12
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US: 340/425.5 340/438 348/148 359/838 362/494 701/213 701/431 701/444 701/487



Family:

Publication number	Publication date	Application number	Application date
US2007171037 AA	20070726	US20070625374	20070122
US7579939 BB	20090825	US20070625374	20070122

Priority:

US19980003966	19980107	US19980213075	19981216	US19990382720	19990825
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US20020232122	20020830	US20020270830	20021015	US20020279059	20021023
US20030618334	20030711	US20040755915	20040113	US20070625374	20070122

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP

Inventor(s): (std): BINGLE ROBERT L ; LYNAM NIAL R ; O BRIEN FRANK ; SCHOFIELD KENNETH

Inventor(s): LYNAM NIAL R ; BINGLE ROBERT ; O'BRIEN FRANK

Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

27) Family number: 54082252 (US2008186724A)

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Title: VIDEO MIRROR SYSTEM FOR A VEHICLE

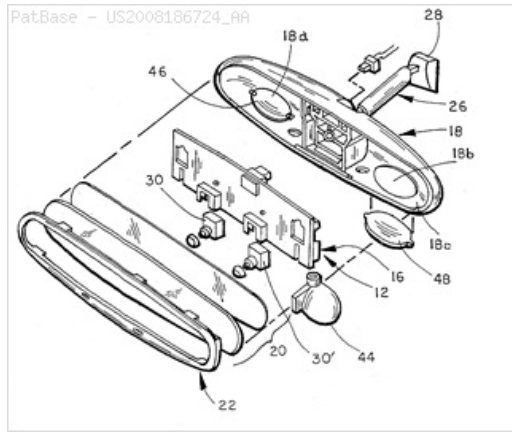
Abstract: A video mirror system for a vehicle includes an interior rearview mirror assembly with an electrochromic reflective element having a front portion and a rear portion generally opposite the front portion. The reflective element has an electrochromic medium disposed between a first substrate and a second substrate and has a transfective third-surface mirror reflector that is at least 15 percent transmitting to visible light and that is at least 40 percent reflective to visible light. A video display is disposed to the rear of the reflective element and emits light when actuated that passes through the transfective mirror reflector. The video display is back lit by at least one light source, and the video display is operable to exhibit a display intensity as viewed by the driver of at least about 400 candelas per square meter when the interior rearview mirror assembly is mounted and is viewed in the vehicle.

Classifications:

International (IPC 8-9): B60Q1/00 B60Q1/26 B60Q1/32 B60Q3/02
B60R1/12 B60R11/02 B60R11/04 H04N7/18 (Advanced/Invention);
B60R11/00 G02B27/00 G02B6/00 (Advanced/Non-invention)

CPC: B60D1/58 B60R2300/808 H04N7/183 B60K35/00 B60K37/06
B60Q1/2665 B60Q1/323 B60R1/12 B60R1/1207 B60R11/0235
B60R11/04 B60R2011/0026 B60R2011/0033 B60R2011/0082
B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288
B60R2011/0294 G02B6/00 G02B2027/0118 G02B2027/012
Y10S362/80 B60R2300/10 B60R2300/20 B60R2300/308 G09G3/3406
G09G3/3648 G09G2320/0626 G09G2380/10 H04N5/374 B60D1/36
B60Q3/258 B60Q3/64 B60Q3/74 B60Q3/82 B60Q2500/00 B60R1/04
B60R2001/1253 B60R2300/8006 G06K9/00771 G06K9/00838
G06K9/78 H04N5/2256 H04N5/23293 H04N5/2354 H04N5/332

B60R1/00 B60R1/003 B60K2370/143 B60K2370/1438
European: B60K35/00 B60K37/06 B60Q1/26J2 B60Q1/32D
B60Q3/00L1 B60Q3/02B12 B60R1/12 B60R1/12A B60R11/02E2
B60R11/04 L60K350/10J5 L60K350/10J5D L60R11/00P1K
L60R11/00P1P L60R11/00R6A L60R11/00R6C L60R11/00R6D3
L60R11/02S L60R11/02T L60R11/02W S02B27/01A4 S02B27/01A4A
S02B6/00
US: 340/425.5 340/438 348/148 348/151 362/494



Family:

Publication number	Publication date	Application number	Application date
US2008186724 AA	20080807	US20080061372	20080402
US7619508 BB	20091117	US20080061372	20080402

Priority:

US20010263680P 20010123	US20010271466P 20010226	US20010793002 20010226
US20010315384P 20010828	US20020346733P 20020107	US20020054633 20020122
US20070623997 20070117	US20080043567 20080306	US20080061372 20080402

Probable Assignee: DONNELLY CORP
Assignee(s): (std): DONNELLY CORP
Inventor(s): (std): LYNAM NIAL R ; LINDAHL JOHN O
Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

28) Family number: 54082254 (US2008212215A)

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Title: INFORMATION DISPLAY SYSTEM FOR A VEHICLE

Abstract: An information display mirror system suitable for use in a vehicle includes an interior rearview mirror assembly configured for mounting at an interior portion of a vehicle and having a casing, a mirror support arm and a reflective element. The interior rearview mirror assembly includes an information display screen disposed separate from and independent of and lateral of the reflective element at a portion of the casing closer to a seating location of the vehicle driver or at a portion of the casing further from a seating location of the vehicle driver. The information display screen may be a touch-sensitive information display screen that displays information responsive to the driver of the vehicle at least one of touching its viewing surface and positioning a finger proximate its viewing surface.

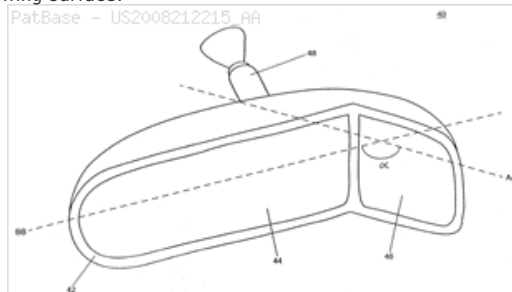
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B60R1/12 B60R11/02 B60R11/04 B60S1/08 G02B27/01 G06F3/01
G06Q20/00 H04N7/18 (Advanced/Invention);
B60R11/00 B60R21/01 B60R21/015 G02B27/00
G02B6/00 (Advanced/Non-invention)

CPC: B60R1/04 B60R1/12 B60S1/0844 B60C23/00 B60C23/0408
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B60Q3/258 B60R1/06 B60R1/1207 B60R11/0235 B60R11/0241
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G02B27/0101 G02B2027/0118 G02B2027/012 H04N7/18 B60R2300/10 B60R2300/101 B60R1/02 B60R1/00 B60S1/0822
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US: 340/425.5 340/438 345/173 348/118 348/148 348/E07.09 348/E7.09 359/838 359/844 362/494 701/213 701/431
701/444 701/487



Family:

Publication number	Publication date	Application number	Application date
US2008212215 AA	20080904	US20080052341	20080320
US7579940 BB	20090825	US20080052341	20080320

Priority:

US19980003966 19980107	US19980213075 19981216	US19990382720 19990825
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US20080052341 20080320		

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP
Inventor(s): (std): BINGLE ROBERT L ; LYNAM NIAL R ; SCHOFIELD KENNETH ; O BRIEN FRANK
Inventor(s): O'BRIEN FRANK
Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

29) Family number: 54082255 (US2008225538A)

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Title: LIGHTING SYSTEM FOR A VEHICLE, WITH HIGH-INTENSITY POWER LED

Abstract: A lighting system for a vehicle comprises a sealed unitary light module including at least one high-intensity power light emitting diode operates with a luminous efficiency of at least about 7 lumens per watt when passing a forward current of at least about 350 milliamps and that emits a luminous flux of at least about 25 lumens when operated at its operating voltage. The sealed unitary light module is removable as a unit from the vehicle and includes a heat dissipating element and a lens.

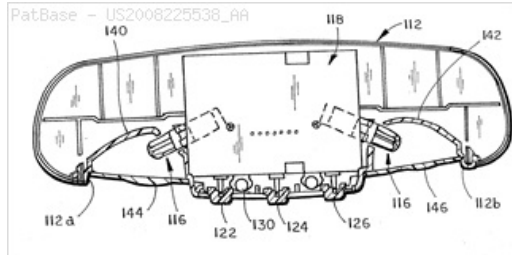
Classifications:

International (IPC 8-9): B60Q1/00 B60Q1/26 B60Q1/32 B60Q3/00 B60Q3/02 B60R1/12 B60R11/02 B60R11/04 F21V7/20 (Advanced/Invention); B60R11/00 G02B27/00 G02B6/00 (Advanced/Non-invention)

CPC: B60D1/58 B60R2300/808 H04N7/183 B60K35/00 B60K37/06 B60Q1/2665 B60Q1/323 B60R1/12 B60R1/1207 B60R11/0235 B60R11/04 B60R2011/0026 B60R2011/0033 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 G02B6/00 G02B2027/0118 G02B2027/012 Y10S362/80 B60R2300/10 B60R2300/20 B60R2300/308 G09G3/3406 G09G3/3648 G09G2320/0626 G09G2380/10 H04N5/374 B60D1/36 B60Q3/258 B60Q3/64 B60Q3/74 B60Q3/82 B60Q2500/00 B60R1/04 B60R2001/1253 B60R2300/8006 G06K9/00771 G06K9/00838 G06K9/78 H04N5/2256 H04N5/23293 H04N5/2354 H04N5/332 B60R1/00 B60R1/003 B60K2370/143 B60K2370/1438

European: B60K35/00 B60K37/06 B60Q1/26J2 B60Q1/32D B60Q3/00L1 B60Q3/02B12 B60R1/12 B60R1/12A B60R11/02E2 B60R11/04 L60K350/10J5 L60K350/10J5D L60R11/00P1K L60R11/00P1P L60R11/00R6A L60R11/00R6C L60R11/00R6D3 L60R11/02S L60R11/02T L60R11/02W S02B27/01A4 S02B27/01A4A S02B6/00

US: 257/79 362/294 362/345 362/373 362/487 362/494 362/547



Family:

Publication number	Publication date	Application number	Application date
US2008225538 AA	20080918	US20080043567	20080306
US7731403 BB	20100608	US20080043567	20080306

Priority:

US20010263680P 20010123 US20010271466P 20010226 US20010793002 20010226
US20010315384P 20010828 US20020346733P 20020107 US20020054633 20020122
US20070623997 20070117 US20080043567 20080306

Probable Assignee: DONNELLY CORPOATION

Assignee(s): (std): DONNELLY CORP ; DONNELLY CORPOATION

Inventor(s): (std): LYNAM NIAL R ; LINDAHL JOHN O

Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

30) Family number: 28065258 (US2003032474A)

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Title: FLEXIBLE LOYALTY POINTS PROGRAMS

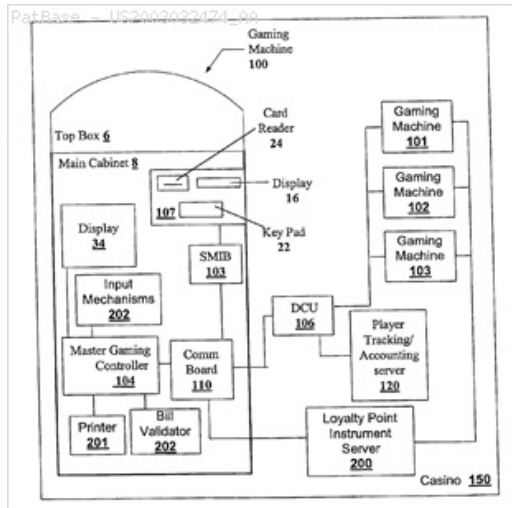
Abstract: A disclosed a loyalty program transaction network provides a plurality of loyalty program instrument generation sites that award loyalty points. The loyalty points may be stored on loyalty point instruments such as printed tickets, magnetic-stripped cards, room keys, portable wireless devices and smart cards. The loyalty program instruments may be issued to a patron of a gaming establishment without receiving identification information from the patron. At a loyalty program validation site, the loyalty program instruments may be used to redeem loyalty points for goods and services or the loyalty program instruments may be used to add loyalty points to an existing loyalty program account. Loyalty points may be earned by the patron during a number of activities such as playing a gaming machine, playing a game of chance, a food purchase, an entertainment purchase, a transportation purchase, a lodging purchase, a merchandise purchase and a service purchase.

Classifications:

International (IPC 8-9): A61F2/04 A61F2/06 A61F2/82 A61F2/84 A61K31/436 A61K31/65 A61K38/54 A61K45/00 A61K45/06 A61L31/00 A61L31/16 A61P35/00 A61P43/00 A61P9/00 A61P9/08 A61P9/14 A63F13/00 A63F13/02 A63F13/12 A63F9/24 G06F17/00 G06F19/00 G06K19/07 G06K19/077 G06Q20/34 G06Q20/38 G06Q30/00 G06Q30/02 G06Q50/00 G07C1/14 G07C11/00 G07C9/00 G07F17/32 G07F7/02 (Advanced/Invention); A61M31/00 (Advanced/Non-invention); A61F2/04 A61F2/06 A61F2/82 A61K31/4353 A61K31/65 A61K38/43 A61K45/00 A61L31/00 A61L31/14 A61P35/00 A61P43/00 A61P9/00 A63F13/00 A63F13/12 A63F9/24 G06Q30/00 G06Q50/00 G07F17/32 G07F7/00 (Core/Invention); A61M31/00 (Core/Non-invention)

International (IPC 1-7): A63F13/00 G06F17/00 G06F17/60 G06F19/00 G07C11/00 G07C9/00 G07F17/32 G07F17/34

CPC: G06Q20/3433 G06Q20/387 G07C9/00158 G07F7/02 G07F17/3202 G07F17/3206 G07F17/3248 G07F17/3251 G07F1/06 G07F17/3232 G06Q50/12 G06Q50/34 G07F17/3234 G06Q30/02 G07F17/322 G07F17/3223 G07F17/3227 G07F17/3237 G07F17/3239 G07F17/3255 A61L31/16 A61F2/07 A61F2002/075 A61F2250/0067 A61L31/10 A61L2300/45 A61F2/848 A61F2/90 A61F2/915 A61F2210/0076 A61F2220/0016 G07C9/00087 G07F17/32 **European:** A61F2/07 A61L31/10 A61L31/16 G06Q20/3433 G06Q20/387 G06Q30/02 G06Q50/12 G06Q50/34 G07C9/00B6D4 G07F1/06 G07F17/32 G07F17/32C G07F17/32C2B G07F17/32C4D G07F17/32C6 G07F17/32E2 G07F17/32E6 G07F17/32E6B



G07F17/32E6D G07F17/32E6D2 G07F17/32K10 G07F17/32K4 G07F17/32K6 G07F7/02 S07C9/00C2D

US: 463/16 463/25 463/25P 463/25S 463/29 463/29P 463/40 463/41 463/42 463/42P 463/42S 463/43 463/43S 463/47 463/47S 623/1.42 623/1.420P 705/1 705/1.1 705/1.100P

Family:

Publication number	Publication date	Application number	Application date
AU2002319781 AA	20030224	AU20020319781	20020806
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AU2003257941 AA	20040223	AU20030257941	20030730
AU2003257941 BB	20090521	AU20030257941	20030730
AU2006233242 AA	20070517	AU20060233242	20061027
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AU2007319422 BB	20120119	AU20070319422	20071109
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CA2494496 C	20150414	CA20032494496	20030730
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Priority:

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Probable Assignee: IGT

Assignee(s): (std): ROWE RICHARD E ; KAMINKOW JOSEPH E ; MOSER TIMOTHY W ; MEZA EDUARDO SAMUEL ; MCPHAIL GAVIN ; PANKAS STEVEN M ; MOSER TIMOTHY ; ROWE RICK ; NELSON DWAYNE ; NELSON DWAYNE R ; SCHNEIDER RICHARD J ; MATTICE HAROLD E ; NARAYANAN PALLASSANA V ; BURRILL NEVIN A ; CORDIS CORP ; FALOTICO ROBERT ; HARRIS ROGER WILLIAM ; IGT RENO ; IGT RENO NEV ; INT GAME TECH ; WILLIAMS RICHARD ; WILLIAMS RICHARD C

Assignee(s): INTERNATIONAL GAME TECHNOLOGY ; INT GAME TECHNOLOGY ; IGT ; NARAYANAN PALLASSANA VENKETESSWARAN

Inventor(s): (std): BURRILL NEVIN A ; KAMINKOW JOSPEH E ; MCPHAIL GAVIN ; MEZA EDUARDO SAMUEL ; MOSER TIMOTHY ; NELSON DWAYNE ; HARRIS ROGER WILLIAM ; PANKAS STEVEN M ; ROWE RICHARD E KAMINKOW JOSEPH ; ROWE RICK ; SCHNEIDER RICHARD J ; WILLIAMS RICHARD ; WILLIAMS RICHARD C ; ROWE RICHARD E ; NELSON DWAYNE R ; MOSER TIMOTHY W ; MATTICE HAROLD E ; NARAYANAN PALLASSANA VENKETESS ; NARAYANAN PALLASSANA V ; KAMINKOW JOSEPH E ; FALOTICO ROBERT NARAYANAN PALL ; FALOTICO ROBERT

Inventor(s): JOSPEH E KAMINKOW ; JOSEPH E KAMINKOW ; NARAYANAN PALLASSANA VENKETESSWARAN ; NARAYANAN PALLASSANA ; FALOTICO ROBERT NARAYANAN PALLASSANA V ; MATTICE HAROLD ; RICHARD E ROWE ; STEVEN M PANKAS ; TIMOTHY W MOSER ; ROGER WILLIAM HARRIS ; ROWE RICHARD ; KAMINKOW JOSEPH ; NEVIN A BURRILL ; EDUARDO SAMUEL MEZA ; GAVIN MCPHAIL ; HAROLD E MATTICE

Agent(s): PHILLIPS ORMONDE FITZPATRICK ; FETHERSTONHAUGH AND CO ; SIM AND MCBURNEY ; BROWNE ROBIN FORSYTHE ; OHTSUKA SUMIE ; MASUI CHUJI ; SHAMOTO ICHIO ; KOBAYASHI YASUSHI ; TOMITA HIROYUKI ; CHIBA AKIO ; KATO MASANOBU ; ONO SHINJIRO ; BEYER WEAVER AND THOMAS LLP ; PHILIP S JOHNSON JOHNSON AND JOHNSON ; BEYER WEAVER LLP ; WEAVER AUSTIN VILLENEUVE AND SAMPSON LLP - IGT,ATTN: IGT ; WEAVER AUSTIN VILLENEUVE AND SAMPSON LLP IGT ATTN IGT ; WEAVER AUSTIN VILLENEUVE AND SAMPSON LLP ; FOLEY AND LARDNER LLP ; NEAL GERBER AND EISENBERG LLP ; WOLF DEAN E ET AL ; PLUT WILLIAM J ET AL ; SAMPSON ROGER S ET AL

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

31) Family number: 54082259 (US2009290369A)

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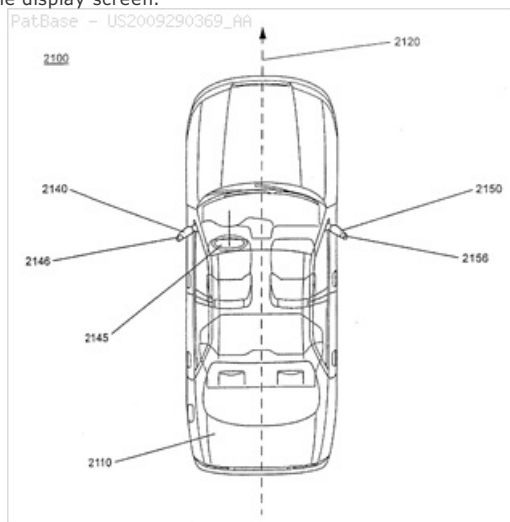
Title: INFORMATION DISPLAY SYSTEM FOR A VEHICLE

Abstract: A vehicular mirror system comprises an interior electro-optic mirror having a transfective mirror reflector and a display screen disposed behind the mirror reflector so that the presence of the display screen is substantially unobservable to a driver of the vehicle until the display screen is actuated to emit light that passes through the electro-optic reflective element to be viewed by the driver of the vehicle. Control circuitry may receive a signal indicative of selection of a reverse gear of the vehicle by the driver and may actuate the display screen to display video images captured by a video imaging device disposed to the rear of the vehicle and having a field of view rearward of and external to the vehicle. Control circuitry may electronically generate indicia overlaying the video images on the display screen.

Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00 B60Q1/00 B60Q1/26 B60Q1/50 B60Q1/54 B60Q3/02 B60R1/04 B60R1/12 B60R11/02 B60R11/04 B60S1/08 G02B27/01 G06Q20/00 H04N7/18 (Advanced/Invention); B60R11/00 B60R21/01 B60R21/015 G02B27/00 G02B6/00 (Advanced/Non-invention)

CPC: B60R1/04 B60R1/12 B60S1/0844 B60C23/00 B60C23/0408 B60K35/00 B60K37/06 B60Q1/22 B60Q1/2665 B60Q1/503 B60Q1/54 B60Q3/258 B60R1/06 B60R1/1207 B60R11/0235 B60R11/0241 B60R11/0247 B60R11/04 B60R21/01566 B60R2001/1215 B60R2001/1223 B60R2001/1253 B60R2001/1284 B60R2011/0026 B60R2011/0033 B60R2011/004 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 B60R2300/103 B60R2300/105 B60R2300/106 B60R2300/302 B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053 B60R2300/806 B60S1/0885 G02B6/00 G02B27/01 G02B27/0101 G02B2027/0118 G02B2027/012 H04N7/18 B60R2300/10 B60R2300/101 B60R1/02 B60R1/00 B60S1/0822 H04N7/183 B60K2370/143 B60K2370/1438
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US: 340/425.5 340/438 348/148 348/151 362/494



Family:

Publication number	Publication date	Application number	Application date
US2009290369 AA	20091126	US20090536930	20090806
US8044776 BB	20111025	US20090536930	20090806

Priority:

US20000186520P 20000302 US20000218336P 20000714 US20000234412P 20000921

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP

Inventor(s): (std): BINGLE ROBERT L ; LYNAM NIAL R ; O BRIEN FRANK ; SCHOFIELD KENNETH

Inventor(s): O'BRIEN FRANK

Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP; GARDNER LINN BURKHART AND FLORY LLP

32) Family number: 47096259 (US2013187755A)

Title: SYSTEMS AND METHODS FOR MANAGING SHOPPING CART AND OTHER WHEELED CONVEYANCE ASSETS

Abstract: The inventive subject matter relates to systems and methods relating to managing shopping cart and other wheeled conveyance assets of an enterprise. More particularly, one aspect of the inventive subject matter relates to using radio frequency identification (RFID) tags and control units to track, manage, and maintain shopping cart and other wheeled conveyance assets of an enterprise, in order to immobilize such wheeled conveyance if an unauthorized attempt is made to move it outside a prescribed use area into a restricted area. In a further aspect of the inventive subject matter, said systems and methods permit authorized uses of such assets to take them into a restricted area.

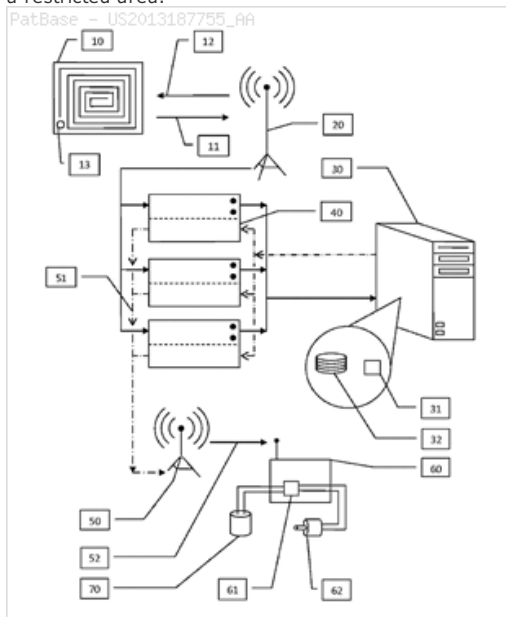
Classifications:

International (IPC 8-9): G06K17/00 G06Q10/00 G06Q30/00
G08B13/24 (Advanced/Invention)

CPC: G08B13/2451 G06Q30/06 G07C9/00111

European: G06Q30/06 G07C9/00B10

US: 340/5.61



Family:

Publication number	Publication date	Application number	Application date
CA2793088 AA	20101014	CA20102793088	20100407
US2013187755 AA	20130725	US20100581758	20100407
WO10117451 A2	20101014	WO2010US01044	20100407
WO10117451 A3	20101229	WO2010US01044	20100407

Priority:

US20090202790P 20090406 US20100581758 20100407 WO2010US01044 20100407

Probable Assignee: WHEELLOGIC LLC

Assignee(s): (std): ANDERSON THOMAS D ; ANDERSON THOMAS DANIEL ; HUI FEMANDA ; HUI FERNANDO ; WHEELLOGIC LLC ; ROGERS EUGENE JOSEPH

Inventor(s): (std): ROGERS EUGENE JOSEPH ; HUI FERNANDO ; HUI FEMANDA ; ANDERSON THOMAS DANIEL ; ANDERSON THOMAS D

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP

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

33) Family number: 54082261 (US2010045790A)

Title: VIDEO MIRROR SYSTEM FOR VEHICLE

Abstract: A video mirror system for a vehicle includes an interior rearview mirror assembly with an electrochromic reflective element having a front portion and a rear portion generally opposite the front portion. The reflective element has an electrochromic medium disposed between a first substrate and a second substrate and has a transfective third-surface mirror reflector. A video display is disposed to the rear of the reflective element and emits light when actuated that passes through the transfective mirror reflector.

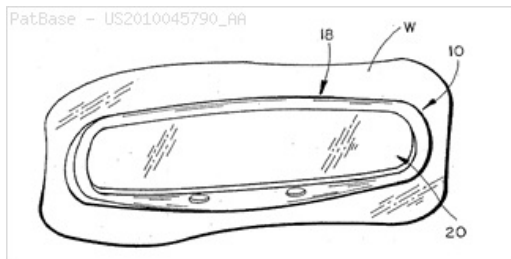
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International (IPC 8-9): B60Q1/00 B60Q1/26 B60Q1/32 B60Q3/02 B60R1/12 B60R11/02 B60R11/04 H04N7/18 (Advanced/Invention); B60Q1/00 B60R11/00 G02B27/00 G02B6/00 (Advanced/Non-invention)

CPC: B60D1/58 B60B2300/808 H04N7/183 B60K35/00 B60K37/06

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US: 340/425.5 340/435 340/438 348/140 348/148 348/151 348/E7.085 362/494



Family:

Publication number	Publication date	Application number	Application date
US2010045790 AA	20100225	US20090609329	20091030
US8072318 BB	20111206	US20090609329	20091030

Priority:

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US20090609329 20091030

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP ; LINDAHL JOHN O ; LYNAM NIAL R

Inventor(s): (std): LINDAHL JOHN O ; LYNAM NIAL R

Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP; GARDNER LINN BURKHART AND FLORY LLP

34) Family number: 30776263 (US2001036183A)

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Title: METHOD FOR ROUTING DATA PACKETS USING AN IP ADDRESS BASED IN GEO POSITION

Abstract: Method of routing data over a network in which contact is made with a home network to determine the reported geo-position, using this geo-position to transmit data to the device over a path through a node in which the node reads the geo-position, accesses a list of possible recipients and their geo-positions, compares its location to the positions, selects a recipient based at least in part on the proximity of the recipient to the device, and transmits the data over the best path. Eventually, the device becomes the recipient. A geo-position may be transmitted as part of an IP address. The geo-position information can be generated from a GPS receiver. This method and/or IP address may be used in a method of doing business in which the geo-position is used to identify the source and location for delivery. This information may be incorporated into a purchase order or confirmation receipt.

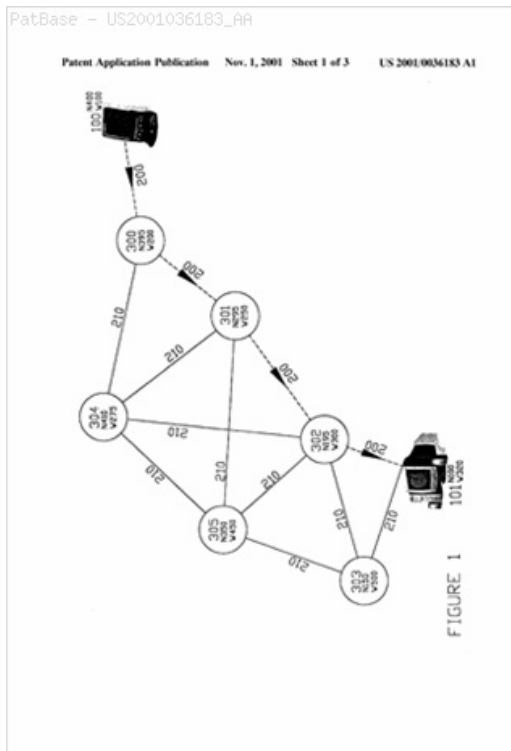
Classifications:

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H04B3/00 H04B3/52 H04B3/54 H04J11/00 H04J3/24 H04J7/02
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H04W4/02 H04W40/20 H04W8/26 H04W99/00 (Advanced/Invention);
H03K7/08 H04B1/69 H04B1/7163 H04B1/7176 H04B14/02 H04L29/12
H04M7/00 H04W64/00 H04W80/04 (Advanced/Non-invention);
G01S19/00 G01S5/14 G06F15/16 H04B1/69 H04B3/00 H04J11/00
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H04L29/06 H04L29/08 H04L5/14 H04M1/00
H04Q5/00 (Core/Invention);
H04B1/69 H04L29/12 H04M7/00 (Core/Non-invention);
H04L (Subclass/Invention)

International (IPC 1-7): G01S5/02 G02B6/00 G06F17/30 G06F7/00
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Y10S707/99948 G06F16/211

European: G01S19/10 G01S19/11 G01S19/21 G01S19/21S G01S19/46 G01S5/14 G01S5/14B3 G06K7/10A7A H04B1/7163
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398/178 398/178S 398/183 398/189 398/190 398/191 455/404.2 455/456.1 455/562.1 707/100 707/102 707/104.1 707/793
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709/236

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CN101422005 B	20130403	CN20038015247	20030430
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

35) Family number: 33540299 (US2002003571A)

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Title: VIDEO MIRROR SYSTEMS INCORPORATING AN ACCESSORY MODULE

Abstract: A vehicular video mirror system includes an interior rearview mirror assembly and a video display assembly. The interior rearview mirror assembly includes a mirror casing incorporating a reflective element. The reflective element has a rearward field of view when the interior rearview mirror assembly is mounted in a vehicle. The mirror assembly further includes a mirror-mounting portion, which is adapted to mount the interior rearview mirror assembly at an interior portion of the vehicle, such as a windshield portion or a header portion. The mirror casing is adjustable about the mirror-mounting

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

37) Family number: 33540351 (US2003117728A) © PatBase

Title: INTERIOR REARVIEW MIRROR SYSTEM INCLUDING A PENDENT ACCESSORY

Abstract: An interior rearview mirror assembly for a vehicle includes a casing with a reflective element and a storage space. The storage space provides storage for at least one accessory and for storing the accessory in the location easily accessible by an occupant of the vehicle whereby the accessory can be inserted into and removed from the storage space for use by an occupant of the vehicle. The storage space may take the form of a recess provided in a top wall of the casing, a recessed portion provided in a front wall, back wall, or end wall of the casing. In one form, the recessed portion houses a pendent accessory which is dockable in and removable from the storage space for use by an occupant of the vehicle. For example, the pendent accessory may comprise a light assembly which is useable as a flashlight independently of the interior rearview mirror assembly or useable as a map light when docked in the mirror assembly. The storage space may also be used to hold workpieces or the like.

Classifications:

International (IPC 8-9): B60Q3/02 B60R1/12 B60R11/02

G06Q20/00 (Advanced/Invention);

B60R11/00 (Advanced/Non-invention)

International (IPC 1-7): B60Q1/26 B60R1/04 B60R1/12 G02B5/08 G02B7/182

CPC: B60R1/04 B60R2001/1253 G01C11/02 H04N7/181

B60R11/0247 B60Q3/258 B60Q3/59 B60R1/008 B60R1/12

B60R1/1207 B60R11/0217 B60R11/0241 B60R2001/1292

B60R2011/0026 B60R2011/0033 B60R2300/8013

European: B60Q3/02B12 B60Q3/02G B60R1/00L B60R1/12

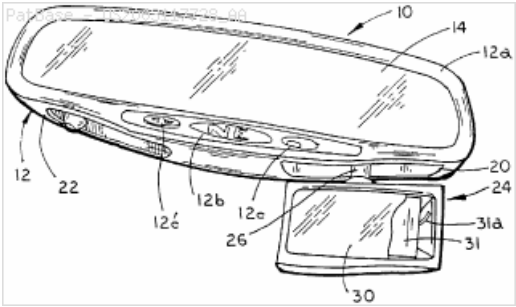
B60R11/02D B60R11/02H L60R1/12A L60R1/12M L60R11/00P1K

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US: 248/479 248/481 248/484 359/265 359/604 359/838 359/838P

359/85 359/850 359/850S 359/865 359/871 359/871S 359/872

362/140 362/190 362/494 362/494S



Family:

Publication number	Publication date	Application number	Application date
AT330818 E	20060715	AT20000650113T	20000824
DE60028907 D1	20060803	DE20006028907	20000824
DE60028907 D1	20060803	DE20006028907T	20000824
DE60028907 T2	20070215	DE20006028907T	20000824
EP1103420 A2	20010530	EP20000650113	20000824
EP1103420 A3	20040721	EP20000650113	20000824
EP1103420 B1	20060621	EP20000650113	20000824
US2003117728 AA	20030626	US20020307929	20021202
US6902284 BB	20050607	US20020307929	20021202

Priority:

US19990449121 19991124 US20000585379 20000601 US20020307929 20021202

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP ; DONNELLY CORP A CORP OF ST ; DONNELLY CORP STATE MICHIGAN

Assignee(s): DONNELLY A OF STATE CORP ; DONNELLY A OF STATE OF CORP ; DONNELLY A OF STATE OF MICHIGAN CORP

Inventor(s): (std): DEWIND DARRYL P ; HUTZEL BARRY R ; HUTZEL BARRY W ; LINDAHL JOHN O ; LYNAM NIAL R

Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

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

38) Family number: 33540390 (US2004145457A) © PatBase

Title: ACCESSORY SYSTEM SUITABLE FOR USE IN A VEHICLE

Abstract: A vehicular video mirror system includes an interior rearview mirror assembly and a video display assembly. The interior rearview mirror assembly includes a mirror casing incorporating a reflective element. The reflective element has a rearward field of view when the interior rearview mirror assembly is mounted in a vehicle. The mirror assembly further includes a mirror-mounting portion, which is adapted to mount the interior rearview mirror assembly at an interior portion of the vehicle, such as a windshield portion or a header portion. The mirror casing is adjustable about the mirror-mounting portion for adjusting the rearward field of view of the reflective element. The video display assembly includes a video screen which is incorporated in a video display housing. The video display assembly also includes a display-mounting portion, which is adapted to mount the video display assembly at the interior portion of the vehicle. The display housing is adapted to be adjustable about the display-mounting portion for adjusting the orientation of the video screen and, further, for moving the display housing to a stowed position whereby the video screen is generally not viewable by a driver when seated in a vehicle seat in the vehicle to thereby minimize the distraction to the driver of the vehicle.

Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00

B60Q1/00 B60Q1/26 B60Q1/50 B60Q1/54 B60Q3/02 B60R1/04

B60R1/12 B60R11/02 B60R11/04 B60S1/08 G02B27/01 G06Q20/00

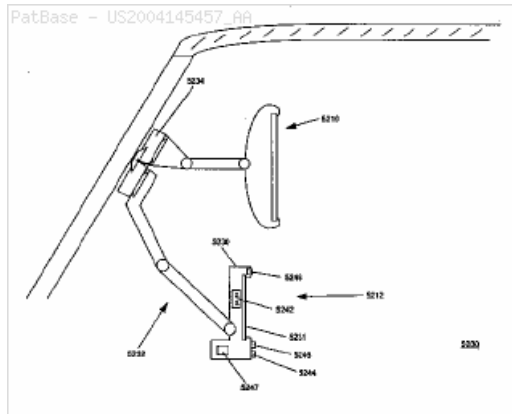
H04N7/18 (Advanced/Invention);

B60R11/00 B60R21/01 B60R21/015 G02B27/00

G02B6/00 (Advanced/Non-invention)

International (IPC 1-7): B60Q1/00

CPC: B60R1/04 B60R1/12 B60S1/0844 B60C23/00 B60C23/0408 B60K35/00 B60K37/06 B60Q1/22 B60Q1/2665 B60Q1/503 B60Q1/54 B60Q3/258 B60R1/06 B60R1/1207 B60R11/0235 B60R11/0241 B60R11/0247 B60R11/04 B60R21/01566 B60R2001/1215 B60R2001/1223 B60R2001/1253 B60R2001/1284 B60R2011/0026 B60R2011/0033 B60R2011/004 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 B60R2300/103 B60R2300/105 B60R2300/106 B60R2300/302 B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053 B60R2300/806 B60S1/0885 G02B6/00 G02B27/01 G02B27/0101 G02B2027/0118 G02B2027/012 H04N7/18 B60R2300/10 B60R2300/101 B60R1/02 B60R1/00 B60S1/0822 H04N7/183 B60K2370/143 B60K2370/1438
European: B60C23/00 B60C23/04C B60K35/00 B60K37/06 B60Q1/22 B60Q1/26J B60Q1/26J2 B60Q1/50A B60Q1/54 B60Q3/02B12 B60R1/00 B60R1/04 B60R1/06 B60R1/12 B60R11/02E2 B60R11/02H B60R11/04 B60S1/08F2 B60S1/08F2D8 B60S1/08F2P6 G02B27/01 G02B27/01A H04N7/18 L60K350/10J5 L60K350/10J5D L60R1/12A L60R1/12B L60R1/12C L60R1/12G L60R1/12L L60R11/00P1K L60R11/00P1P L60R11/00P3 L60R11/00R6A L60R11/00R6C L60R11/00R6D3 L60R11/02G L60R11/02S L60R11/02T L60R11/02W L60R21/015R L60R300/10L L60R300/10M L60R300/10N L60R300/30G L60R300/40W L60R300/80E1 L60R300/80L L60R300/80N L60R300/80P S02B27/01A4 S02B27/01A4A S02B6/00
US: 340/425.5 340/425.500P 340/438 345/7 345/7S 348/148 348/151 362/494



Family:

Publication number	Publication date	Application number	Application date
US2004145457 AA	20040729	US20040755915	20040113
US7446650 BB	20081104	US20040755915	20040113

Priority:

US19980003966	19980107	US19980213075	19981216	US19990382720	19990825
US19990396179	19990914	US19990433467	19991104	US20000513941	20000228
US20000186520P	20000302	US20000218336P	20000714	US20000234412P	20000921
US20000237077P	20000930	US20000238483P	20001006	US20000243986P	20001027
US20000710016	20001110	US20010263680P	20010123	US20010793002	20010226
US20010876816	20010607	US20010903336	20010711	US20010997579	20011129
US20020232122	20020830	US20020270830	20021015	US20020279059	20021023
US20030618334	20030711	US20040755915	20040113		

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP ; DONNELLY CORP A CORP OF ST ; DONNELLY CORP STATE MICHIGAN

Assignee(s): DONNELLY A OF STATE CORP ; DONNELLY A OF STATE OF CORP ; DONNELLY A OF STATE OF MICHIGAN CORP

Inventor(s): (std): BINGLE ROBERT L ; LYNAM NIAL R ; SCHOFIELD KENNETH ; O BRIEN FRANK

Inventor(s): SCHOLFELD KENNETH

Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

39) Family number: 63551394 (US2016264052A)

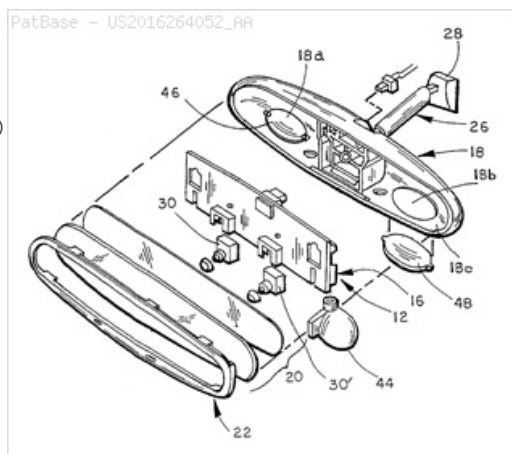
© PatBase

Title: TRAILER HITCHING AID SYSTEM FOR VEHICLE

Abstract: A tow hitching aid system for a vehicle having a hitching ball for connecting to a hitching receiver of a trailer includes a camera disposed at the vehicle and having a field of view that encompasses the hitching ball of the vehicle. The system also includes a plurality of distance measuring sensors disposed at the vehicle. A display screen is disposed in the vehicle and is viewable by a driver of the vehicle when the driver is normally operating the vehicle. A control receives input from the camera and input from the distance measuring sensors. During a tow hitching maneuver, the display screen displays video images captured by the camera, and at least one graphic overlay is superimposed over the displayed video images to assist the driver during the tow hitching maneuver to connect the hitching ball of the vehicle with the hitching receiver of the trailer.

Classifications:

International (IPC 8-9): B60D1/36 B60D1/58 B60K35/00 B60K37/06 B60Q1/26 B60Q1/32 B60Q3/02 B60Q3/258 B60Q3/64 B60R1/00 B60R1/12 B60R11/02 B60R11/04 G09G3/34 G09G3/36 H04N5/374 H04N7/18 (Advanced/Invention); B60R11/00 G02B27/00 G02B27/01 G02B6/00 (Advanced/Non-invention)
CPC: H04N7/183 H04N5/374 G09G3/3648 G09G3/3406 B60R2300/308 B60R2300/20 B60R2300/10 B60R2300/808 G09G2380/10 G09G2320/0626 B60D1/36 B60D1/58 B60K35/00 B60K37/06 B60K2350/1024 B60K2350/1028 B60Q1/2665 B60Q1/323 B60R1/12 B60R1/1207 B60R11/0235 B60R11/04 B60R2011/0026 B60R2011/0033 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 G02B6/00 G02B2027/0118 G02B2027/012 Y10S362/80 B60Q3/258 B60Q3/64 B60R1/00 B60Q3/74 B60Q3/82 B60Q2500/00 B60R1/003 B60R1/04 B60R2001/1253 B60R2300/8006 G06K9/00771 G06K9/00838 G06K9/78 H04N5/2256 H04N5/23293 H04N5/2354 H04N5/332 B60K2370/143 B60K2370/1438
US: 1/1 348/115



Family:

Publication number	Publication date	Application number	Application date
US2016264052 AA	20160915	US20160161707	20160523
US9694749 BB	20170704	US20160161707	20160523

Priority:

US20010263680P	20010123	US20010271466P	20010226	US20010793002	20010226
US20010315384P	20010828	US20020346733P	20020107	US20020054633	20020122

US20070623997	20070117	US20080043567	20080306	US20080061372	20080402
US20090609329	20091030	US20110309915	20111202	US20140181778	20140217
US20160161707	20160523				

Probable Assignee: MAGNA ELECTRONICS INC
Assignee(s): (std): MAGNA ELECTRONICS INC
Inventor(s): (std): LINDAHL JOHN O ; LYNAM NIAL R
Agent(s): GARDNER LINN BURKHART AND FLORY LLP

40) Family number: 42771431 (US2009005136A)

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Title: INTERIOR REARVIEW MIRROR SYSTEM WITH IDENTIFIER MODULE

Abstract: An interior rearview mirror system for a vehicle includes an interior rearview mirror assembly having a casing and a reflective element. The interior rearview mirror assembly includes a module that provides a specific identifier for telecommunication occurring at least one of to the vehicle in which the interior mirror assembly is mounted and from the vehicle in which the interior mirror assembly is mounted. The module may have a caller identifier for a communication system, with the identifier identifying a subscriber of the communication system for making telephone calls to and from the vehicle in which the interior mirror assembly is mounted. The vehicle in which the interior mirror assembly is mounted may have at least one element operable for establishing the telecommunication with the communication system, and the module of the interior mirror assembly may have an identifier module that identifies a subscriber of the communication system.

Classifications:

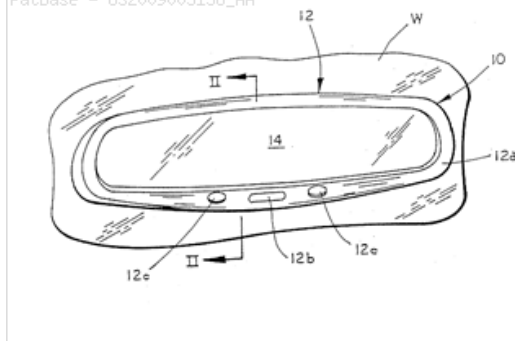
International (IPC 8-9): B60Q3/02 B60R1/12 B60R11/02 G06Q20/00 H04M1/00 (Advanced/Invention); B60R11/00 (Advanced/Non-invention)

CPC: B60R11/0247 B60Q3/258 B60Q3/59 B60R1/008 B60R1/04 B60R1/12 B60R1/1207 B60R11/0217 B60R11/0241 B60R2001/1253 B60R2001/1292 B60R2011/0026 B60R2011/0033 B60R2300/8013 G01C11/02 H04N7/181

European: B60Q3/02B12 B60Q3/02G B60R1/00L B60R1/12 B60R11/02D B60R11/02H L60R1/12A L60R1/12M L60R11/00P1K L60R11/00P1P L60R11/02G L60R300/80C1

US: 455/575.9 455/575.900P

PatBase - US2009005136_AA



Family:

Publication number	Publication date	Application number	Application date
US2009005136 AA	20090101	US20080205067	20080905

Priority:

US19990449121	19991124	US20000585379	20000601	US20020307929	20021202
US20050145253	20050603	US20070935809	20071106	US20080205067	20080905

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP

Inventor(s): (std): HUTZEL BARRY W ; LYNAM NIAL R ; DEWIND DARRYL P ; LINDAHL JOHN O

Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

41) Family number: 33540435 (US2006002123A)

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Title: REARVIEW MIRROR ASSEMBLY WITH UTILITY FUNCTIONS

Abstract: An interior rearview mirror assembly for a vehicle includes a housing having a mirror casing and a support for mounting said mirror casing to a vehicle. The rearview mirror assembly further includes a retractable cord for use by an occupant of the vehicle for coupling to an accessory and which is adapted to couple the accessory to a vehicle system via the housing to provide a link between the accessory and the vehicle system.

Classifications:

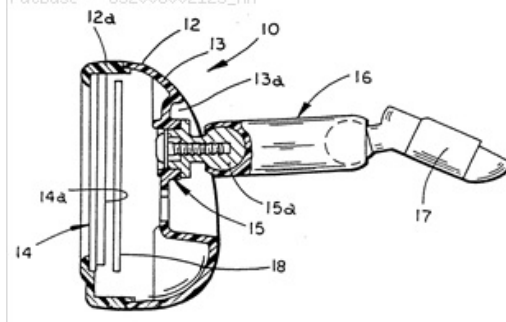
International (IPC 8-9): B60Q3/02 B60R1/04 B60R1/12 B60R11/02 G02B7/182 G06Q20/00 (Advanced/Invention); B60R11/00 (Advanced/Non-invention)

CPC: B60R1/04 B60R2001/1253 G01C11/02 H04N7/181 B60R11/0247 B60Q3/258 B60Q3/59 B60R1/008 B60R1/12 B60R1/1207 B60R11/0217 B60R11/0241 B60R2001/1292 B60R2011/0026 B60R2011/0033 B60R2300/8013

European: B60Q3/02B12 B60Q3/02G B60R1/00L B60R1/12 B60R11/02D B60R11/02H L60R1/12A L60R1/12M L60R11/00P1K L60R11/00P1P L60R11/02G L60R300/80C1

US: 359/838 359/871 362/494 362/494P

PatBase - US2006002123_AA



Family:

Publication number	Publication date	Application number	Application date
US2006002123 AA	20060105	US20050145253	20050603
US7293888 BB	20071113	US20050145253	20050603

Priority:

US19990449121	19991124	US20000585379	20000601	US20020307929	20021202
US20050145253	20050603				

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DEWIND DARRYL P ; DONNELLY CORP ; HUTZEL BARRY W ; LINDAHL JOHN O ; LYNAM NIAL R

Inventor(s): (std): DEWIND DARRYL P ; HUTZEL BARRY W ; LINDAHL JOHN O ; LYNAM NIAL R ; O LINDAHL JOHN

Inventor(s): LYNAM NIAL ; LINDAHL JOHN ; HUTZEL BARRY ; DEWIND DARRYL

Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

42) Family number: 31730439 (DE102004035856A1)

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Title: ELECTRICAL AUXILIARY DEVICE FOR USE IN A TRAFFIC SYSTEM, E.G. A TRAFFIC DATA COLLECTION SYSTEM OR TRAFFIC WARNING SYSTEM, WHEREBY THE DEVICE IS MOUNTED AT LEAST PARTIALLY IN A MOUNTING TUBE OR PIPE OF EXISTING INFRASTRUCTURE

Abstract: The electrical auxiliary device (Z) for application to a mounting tube (HR) of a traffic device, e.g. a traffic sign, whereby at least a part of the electrical auxiliary device is held within the mounting tube. The auxiliary device can form part of a traffic data collection system or a traffic data distribution system. Independent claims are also included for a corresponding traffic sign, traffic guidance post, traffic beacon, traffic warning system, anti-collision system and toll system.

Classifications:

International (IPC 8-9): G08G1/00 G08G1/01 G08G1/0967

G08G1/14 G08G1/16 (Advanced/Invention);

G08G1/00 G08G1/01 G08G1/0962 G08G1/14

G08G1/16 (Core/Invention)

International (IPC 1-7): G08G1/0 G08G1/00 G08G1/0967 G08G1/14

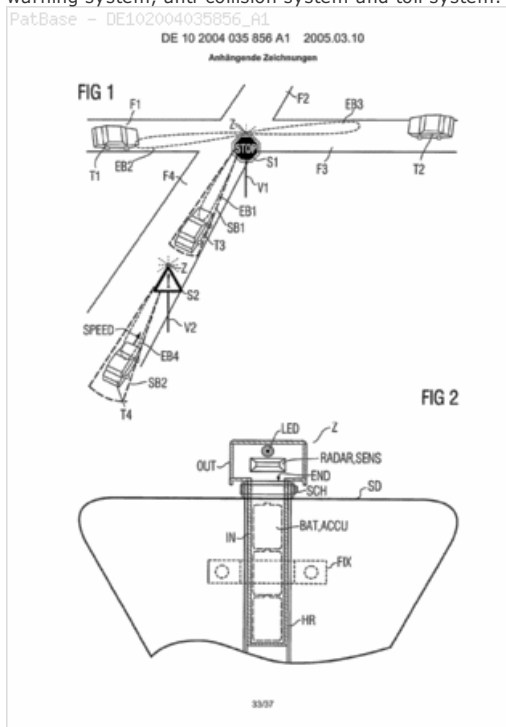
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CPC: G08G1/166 G08G1/052 G08G1/096725 G08G1/096775

G08G1/096783

European: G08G1/052 G08G1/0967A2 G08G1/0967C1

G08G1/0967C2



Family:

Publication number	Publication date	Application number	Application date
DE102004035856 A1	20050310	DE200410035856	20040723

Priority:

DE20031037554 20030814

DE200410035856 20040723

Probable Assignee: BITTNER ROLAND

Assignee(s): (std): BITTNER ROLAND ; KONRAD HILMAR

Inventor(s): (std): BITTNER ROLAND ; KONRAD HILMAR

43) Family number: 63115447 (US2016229342A)

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Title: DRIVER ASSIST SYSTEM FOR VEHICLE

Abstract: A driver assist system for a vehicle includes at least one non-visual sensor and a forward-viewing camera disposed that is part of a multi-camera vision system of the vehicle that includes at least two side cameras and a rear backup camera. A video display screen is viewable by a driver of the vehicle when the driver is normally operating the vehicle. During a driving or parking maneuver of the vehicle, images derived, at least in part, from image data captured by at least some of the cameras are displayed by the video display screen, and at least one indication is provided to the driver of the vehicle during the driving maneuver. A unitary image is synthesized from image data captured by the multi-camera vision system and approximates a view as would be seen by a virtual camera at a single location exterior of the vehicle.

Classifications:

International (IPC 8-9): B60C23/04 B60N2/90 B60Q1/26 B60Q5/00

B60Q9/00 B60R1/00 B60R1/08 B60R1/12 B60R11/04 G01C21/00

G01C21/36 G01S13/86 G01S19/48 G06K9/00 G06Q20/00 G06T5/00

H04N5/232 H04N5/247 H04N5/265 H04N7/18 (Advanced/Invention);

G01C21/20 G01C21/26 G01S5/14 (Advanced/Non-invention)

CPC: B60R1/00 H04N5/23293 H04N5/247 G06T5/006 H04N5/265

B60R2300/105 B60R2300/301 B60R2300/806 B60R2300/8066

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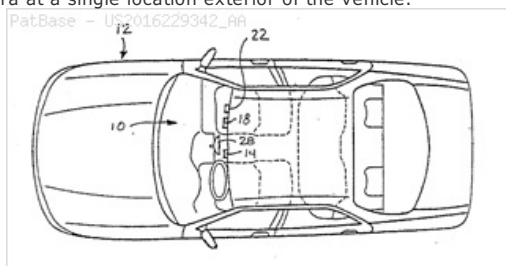
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B60R2001/1215 B60R2001/1253 B60R2300/406 G01C21/00

G01C21/20 G01C21/26 G01C21/36 G01C21/365 G01S13/862

G01S13/865 G01S13/867 G06K9/00805 H04N7/181 H04N7/183

B60N2/976



Publication number	Publication date	Application number	Application date
US2016229342 AA	20160811	US20160131592	20160418
US9809168 BB	20171107	US20160131592	20160418

Priority:

US20000186520P	20000302	US20000187960P	20000309	US20000218336P	20000714
US20000234412P	20000921	US20000237077P	20000930	US20000238483P	20001006
US20000243986P	20001027	US20010263680P	20010123	US20010793002	20010226
US20010271466P	20010226	US20010799414	20010305	US20010315384P	20010828
US20020346733P	20020107	US20020054633	20020122	US20020404906P	20020821
US20020405392P	20020823	US20020406166P	20020827	US20020287178	20021104
US20030456599	20030606	US20030645762	20030820	US20040755915	20040113
US20070624381	20070118	US20070935800	20071106	US20090405614	20090317
US20100724895	20100316	US20100908481	20101020	US20110209645	20110815
US20120399347	20120217	US20120621382	20120917	US20130033963	20130923
US20140211256	20140314	US20150678145	20150403	US20160131592	20160418

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): MAGNA ELECTRONICS INC

Inventor(s): (std): LYNAM NIAL R ; MCCARTHY KEVIN C ; SCHOFIELD KENNETH ; TAYLOR DAVID W

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

44) Family number: 52731460 (WO13004961A1)

Title: DEVICE ASSISTING WITH VEHICLE MANOEUVRES ON THE BASIS OF AN ESTIMATE OF AN OVERALL REACTION TIME

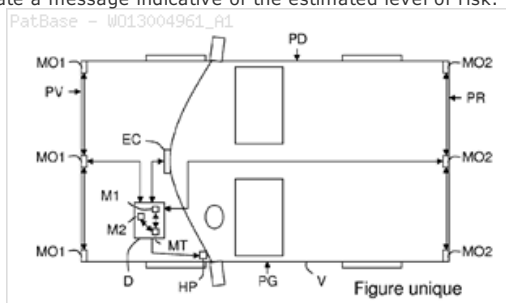
Abstract: A device (D) is intended to assist a driver with manoeuvring a vehicle (V). This device (D) comprises processing means (MT) designed i) to estimate, firstly, an overall reaction time in order to initiate a change to the operation of the vehicle (V) as a function of at least one item of information chosen to be representative of the current use being made of the vehicle (V) and/or of at least one item of information chosen to be representative of the environment of the vehicle (V) and of a first estimate of the distance separating a part of the vehicle (V) from an obstacle located in its environment and of a second estimate of the relative speed of the vehicle (V) with respect to this obstacle, and secondly, a level of risk of collision between the vehicle (V) and an obstacle situated in its environment as a function of the first estimate, of the second estimate, and of the estimated overall reaction time, and ii) to generate a message indicative of the estimated level of risk.

Classifications:

International (IPC 8-9): B60W30/06 B60W30/08 B60W30/095
B60W40/04 B60W40/10 B60W50/14 (Advanced/Invention)

CPC: B60W30/0956 B60W40/04 B60W50/14 B60W2530/18
B60W2550/10 B60W2550/12 B60W2550/302 B60W2550/308

European: B60W30/095D B60W40/04 B60W50/14 L60W530/18
L60W550/10 L60W550/12 L60W550/30A L60W550/30D



Family:

Publication number	Publication date	Application number	Application date
FR2977551 A1	20130111	FR20110056145	20110707
FR2977551 B1	20140124	FR20110056145	20110707
WO13004961 A1	20130110	WO2012FR51533	20120702
WO13004961 A8	20130221	WO2012FR51533	20120702

Priority:

FR20110056145 20110707

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): (std): LARGE FREDERIC ; PEUGEOT CITROEN AUTOMOBILES SA ; THURET FRANCIS

Inventor(s): (std): LARGE FREDERIC ; THURET FRANCIS

Inventor(s): FRANCIS THURET ; FREDERIC LARGE

Agent(s): PEUGEOT CITROEN AUTOMOBILES SA; JEANNIN LAURENT

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

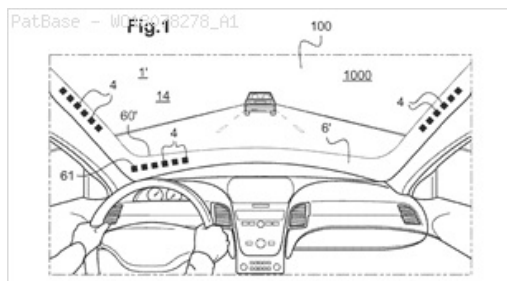
45) Family number: 69572477 (WO18078278A1)

Title: VEHICLE LUMINOUS GLAZING, VEHICLE INCORPORATING IT

Abstract: The present invention relates to a vehicle luminous signaling glazing forming, for example, a laminated vehicle windshield, comprising: a first exterior glazing, with face F1 and face F2; a lamination interlayer (2) made of polymeric material with an other edge face; and a second interior glazing, with face F3 and face F4, face F2 and face F3 being the internal faces of the laminated glazing. The glazing also comprises a flexible carrier for diodes comprising what is called a "diode" zone and an emergent electrical supply zone that emerges from the other edge face, this zone being divided into a plurality of what are called track-bearing strips, which bear electrical tracks, these strips having individual widths W_i of less than 5 cm.

Classifications:

International (IPC 8-9): B32B17/10 B60K35/00 B60Q1/26
B60Q3/208 C03C27/12 F21V33/00 (Advanced/Invention)
CPC: B32B17/10036 B32B17/10541 B32B17/10761 B60K35/00
B60K37/04 B60K2370/33



Family:

Publication number	Publication date	Application number	Application date
CN108602323 A	20180928	CN201780002999	20171024
FR3058107 A1	20180504	FR20160060533	20161028
FR3058107 B1	20181207	FR20160060533	20161028
WO18078278 A1	20180503	WO2017FR52934	20171024

Priority:

FR20160060533 20161028 WO2017FR52934 20171024

Probable Assignee: SAINT GOBAIN SA

Assignee(s): (std): SAINT GOBAIN ; SAINT GOBAIN SA

Assignee(s): SAINT GOBAIN GLASS FRANCE

Inventor(s): (std): BAUERLE PASCAL ; GILLESSEN STEPHAN ; STRICHER ARTHUR

Inventor(s): STEPHAN GILLESSEN ; PASCAL BAUERLE ; ARTHUR STRICHER

Agent(s): SAINT GOBAIN RECHERCHE

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

46) Family number: 13892490 (DE19827586A1)

© PatBase

Title: CAR KEYLESS ACCESS CONTROL SYSTEM

Abstract: The transceiver comprises several LF signal transmitters working in inductive frequency range and allocated to different car sides, and a receiver unit for HF transponder(8) answering signal, working in HF range. The transponder has a LF receiver and a HF answering signal transmitter. The LF transmitters(4,5,6) are connected for cyclic and time offset transmission of a reception range limiting signal. To the car HF transceiver(7) and to the transponder are allocated HF transceiver units. The car HF transceiver transmits an ID signal for each LF transmitter. The transponder HF transceiver transmits an answering signal, containing the received LF signal identity. Independent claims are included for control process procedure.

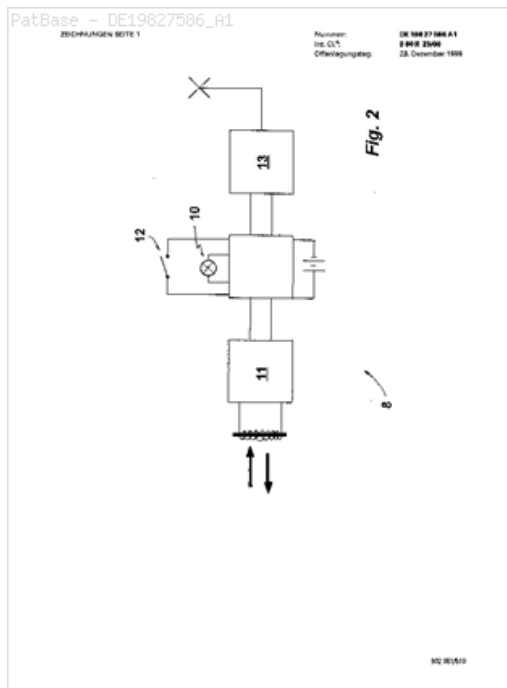
Classifications:

International (IPC 8-9): B60R25/00 B60R25/20 B60R25/24
E05B65/12 G07C9/00 G08C17/02 H04Q9/00 (Advanced/Invention);
B60R25/00 E05B65/12 G07C9/00 G08C17/00
H04Q9/00 (Core/Invention)

International (IPC 1-7): B60R25/00 E05B65/12 G08C17/02
H04Q9/00

CPC: B60R25/20 B60R25/245 G07C9/00309 G07C2009/00333
G07C2009/00404 G07C2009/00777 G07C2009/00793

European: B60R25/20 B60R25/24F G07C9/00E4 S07C9/00E14C2
S07C9/00E14C6 S07C9/00E4B4 S07C9/00E4F4



Family:

Publication number	Publication date	Application number	Application date
DE19827586 A1	19991223	DE19981027586	19980620
DE19827586 B4	20070920	DE19981027586	19980620

Priority:

DE19981027586 19980620

Probable Assignee: KOSTAL LEOPOLD GMBH AND CO KG
Assignee(s): (std): KOSTAL LEOPOLD GMBH AND CO KG
Assignee(s): LEOPOLD KOSTAL GMBH AND CO KG
Inventor(s): (std): LUNOVA PETER ; WOLF DIRK

47) Family number: 28245498 (US2002005826A) © PatBase

Title: LED SIGN

Abstract: A system for displaying an image comprising at least one display apparatus. Each display apparatus including at least one light bar having a plurality of light emitting diodes mounted thereto. At least one support joining each light bar to a rotation mechanism. The rotation mechanism being constructed and arranged to rotate the light bars at a predetermined rate of rotation. The system also includes a controller in electrical communication with each of the plurality of light emitting diodes, and the rotation mechanism of each of the at least one display apparatus. The controller constructed and arranged to control the predetermined rate of rotation and selectively activate the light emitting diodes to produce at least one image capable of being perceived by a viewer.

Classifications:

International (IPC 8-9): B60Q1/26 B64D47/06 F21K9/20 F21K99/00 F21V23/00 F21V3/04 F21V5/04 F21V9/04 G01S1/00 G01S1/70 G01S19/48 G05B15/02 G05B19/00 G06F1/16 G06F13/10 G06F13/40 G06F13/42 G06F17/30 G06F3/01 G06F3/03 G06Q20/10 G06Q20/14 G06Q30/00 G06Q30/02 G06Q30/04 G06Q50/06 G07C9/00 G08B13/00 G08B13/196 G08B13/22 G08B31/00 G08B5/22 G09F21/04 G09F9/33 G09G3/00 G09G3/32 H04B10/00 H04B10/02 H04B10/04 H04B10/07 H04B10/10 H04B10/11 H04B10/114 H04B10/116 H04B10/40 H04B10/50 H04B10/524 H04B10/80 H04B3/54 H04J14/02 H04L12/28 H04L29/06 H04N7/18 H04Q11/00 H04W12/08 H04W4/02 H05B33/08 H05B37/00 H05B37/02 (Advanced/Invention); F21Y101/00 F21Y101/02 F21Y115/10 H04B10/12 H04J14/00 (Advanced/Non-invention); B60Q1/26 G01S1/00 G01S19/00 G06F13/40 H04B10/00 H04B10/10 (Core/Invention)

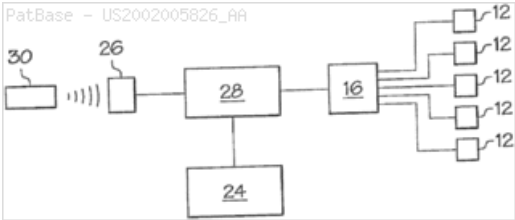
International (IPC 1-7): G06F12/14 G08B21/00 G08B5/22 G08G1/087 G08G1/0965 G09F11/00 G09G3/00 G09G3/32
CPC: B60Q1/2696 B64D47/06 G09F21/04 G09G3/001 G08B13/22 B64D2203/00 B60Q1/2611 B60Q2900/30 G09F9/33 G09G3/005 G06Q20/102 Y10S436/90 G08B13/19613 G08B13/19645 G08B13/19647 G08B13/19652 G08B13/19663 G08B13/19671 G08B31/00 H04N7/183 G07C9/00158 H05B33/0863 H05B33/0884 H04B10/00 G01S1/70 H05B37/0263 H05B37/0272 G06Q30/00 H04B10/11 H04B10/1149 H05B33/0845 H04B10/502 H04W4/025 H04Q11/0003 H05B33/0842 G06F13/102 G06F13/4081 H04N7/181 H04B3/54 H05B37/0227 H05B33/0854 H05B33/0872 F21K9/30 F21Y2101/02 F21K9/20 H04B10/1143 F21Y2101/00 H04N7/18 H05B33/0869 F21V5/04 F21V3/049 H05B33/0815 F21V23/003 H05B33/0857 F21Y2115/10 H04B10/116 H04B10/802 G06F13/4072 G06F13/4282 H04B10/40 G06Q50/06 G06Q20/145 G06Q30/0207 G06Q30/04 H05B37/0218 H05B37/0236 H04B10/524 G08B13/19667 G08B13/19665 G06F1/163 G06F3/011 G06F3/012 G06F3/013 G06F3/014 G06F3/017 G06F3/0304 G06F3/0325 H04L12/282 Y02B20/46 G06F16/50 H04B10/114 H04B10/1141 H04K1/10 H04K3/22 H04K3/90 H04K2203/22

European: B60Q1/26D B60Q1/26L B64D47/06 G07C9/00C2D G08B13/196A5 G08B13/196L2 G08B13/196L3 G08B13/196L4 G08B13/196P G08B13/196S3 G08B31/00 G09F21/04 G09F9/33 G09G3/00B G09G3/00D H04B10/1143 H04B10/1149 L60Q900/30

US: 1/1 315/131 315/151 315/152 315/154 315/292 315/294 315/312 315/318 340/293 340/293P 340/425.5 340/425.500S 340/5.81 340/5.83 340/540 340/541 340/541P 340/550 340/815.4 340/815.400S 340/815.45 340/815.450P 340/937 342/357.06 342/357.31 342/357.310S 345/82 345/82P 348/143 348/143S 348/148 348/159 348/159P 348/E7.085 348/E70.85S 359/152 382/115 382/118 398/115 398/115P 398/116 398/118 398/127 398/128 398/128P 398/130 398/135 398/135P 398/137 398/139 398/172 398/183 398/25 398/45 398/96 436/900 700/275 705/40 710/305 710/305P 713/200

Family:

Publication number	Publication date	Application number	Application date
US2002005826 AA	20020117	US20010858339	20010515
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Priority:

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Probable Assignee: FEDERAL LAW ENFORCEMENT DEVELOPMENT SERVICES INC

Assignee(s): (std): FED LAW ENFORCEMENT DEV SERVIC ; FED LAW ENFORCEMENT DEV SERVICES ; FED LAW ENFORCEMENT DEV SERVICES INC ; FED LAW ENFORCEMENT DEVELOPMENT SERVICES INC ; FED LAW ENFORCEMENT INC ; FED LAW ENFORCEMENT DEVELOPMENT SERVICES INC ; 911 EMERGENCY PRODUCTS INC ; BROWN PAUL R ; PEDERSON JOHN C ; SNOWY VILLAGE INC ; SEVERSON DAN ; SEVERSON CATHY JO ; SEVERSON CATHY J ; ZIMMERMAN JAMES ; MIKKELSEN BRENT ; LECLAIRE JAMES ; VOGT TIMOTHY J ; PEDERSON JOHN

Assignee(s): WEITZEL JOHN P ; FEDERAL LAW ENFORCEMENT DEVELOPMENT SERVICES INC ; VIDAS ARRETT AND STEINKRAUS PA ; JOHN P WEITZEL ; FEDERAL LAW ENFORCEMENT DEVELOPMENT SERVICES INC ; VIDAS ARRETT AND STEINKRAUS PA ; FEDERAL LAW ENFORCEMENT INC ; E P SURVIVORS LLC ; EP SURVIVORS LLC ; FEDERAL LAW ENFORCEMENT DEVELOPMENT SERVICE INC ; FEDERAL LAW ENFORCEMENT DEVELOPMENT SERVICES

Inventor(s): (std): SEVERSON CATHY J ; SEVERSON CATHY JO ; SEVERSON DAN ; ZIMMERMAN JAMES ; VOGT TIMOTHY J ; PEDERSON JOHN C ; PEDERSON JOHN ; PEDERSON CATHY JO ; MIKKELSEN BRENT ; LECLAIRE JAMES ; BROWN PAUL R

Inventor(s): SEVERSON CATHY

Agent(s): VIDAS ARRETT AND STEINKRAUS PA; VIDAS ARRETT AND STEINKRAUS; VOIGT II EDWIN E; VOIGT EDWIN E II; VOIGT EDWIN E

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

48) Family number: 48471512 (US2013069773A)

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Title: INTELLIGENT TRAFFIC SAFETY SYSTEM BASED ON COMPREHENSIVE STATE DETECTION AND DECISION METHOD THEREOF

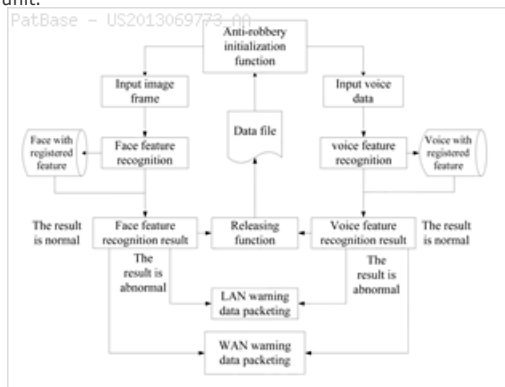
Abstract: The present invention discloses an intelligent traffic safety system based on comprehensive state detection and decision method thereof. The intelligent traffic safety system includes a person condition detection unit, a vehicle condition detection unit, a road condition detection unit, an intelligent decision unit, a driver warning unit, a current vehicle mandatory processing unit, a barrier warning unit, a pursuer warning unit and an after-crash warning unit. The person condition detection unit, the vehicle condition detection unit and the road condition detection unit are separately connected to the intelligent decision unit; the intelligent decision unit implements an intelligent traffic safety decision method based on comprehensive state detection, and respectively sends corresponding crash avoidance warnings and processing instructions to the driver warning unit, the current vehicle mandatory processing unit, the barrier warning unit, the pursuer warning unit and the after-crash warning unit connected to the intelligent decision unit.

Classifications:

International (IPC 8-9): B60C23/00 B60K28/02 B60K28/10 B60Q1/00 B60R21/013 B60R25/00 B60R25/04 B60R25/10 B60R25/102 B60R25/20 B60R25/25 B60W30/08 B60W30/095 B60W40/09 G01S13/93 G01S7/03 G06F19/00 G06K9/00 G06T7/20 G08B21/06 G08C17/02 G08G1/00 H04L29/08 (Advanced/Invention); B60D1/28 B60R25/10 G06F17/10 (Advanced/Non-invention) **CPC:** B60W40/09 B60W30/08 B60W2540/24 B60W2540/26 B60W2540/28 B60W2550/10 B60K28/02 B60K28/10 B60W30/0953 B60W30/0956 Y02T10/84

European: B60K28/02 B60K28/10 B60W30/095B B60W30/095D Y02T10/84

US: 180/271 340/426.1 340/436 701/301



Family:

Publication number	Publication date	Application number	Application date
CN102097003 A	20110615	CN201010620675	20101231
CN102097003 B	20140319	CN201010620675	20101231
CN102201035 A	20110928	CN201110122062	20110512
CN102201035 B	20160203	CN201110122062	20110512
CN102985277 A	20130320	CN201180023702	20110512
CN102985277 B	20160504	CN201180023702	20110512

CN201761368 U	20110316	CN201020187696U	20100512
CN201932117 U	20110817	CN201020696640U	20101231
CN202029653 U	20111109	CN201120149259U	20110511
CN202029843 U	20111109	CN201120149271U	20110511
CN202472863 U	20121003	CN201120575444U	20111231
US2013069773 AA	20130321	US20120674836	20121112
US8841994 BB	20140923	US20120674836	20121112
WO11140993 A1	20111117	WO2011CN074013	20110512

Priority:

CN201020187696U 20100512	CN201010620675 20101231	CN201020696275U 20101231
CN201020696640U 20101231	CN201120149259U 20110511	CN201120149271U 20110511
CN201110122062 20110512	CN201180023702 20110512	WO2011CN074013 20110512
CN201120575444U 20111231		

Probable Assignee: BEIJING ITS STAR TECHNOLOGY CO LTD

Assignee(s): (std): LI MINGHANG ; MINGHANG LI ; BEIJING XINGHEYIDA TECHNOLOGY CO LTD ; WANG DONGWEI ; SHAO ROSE ; XU ZANXIN ; LI KAI ; LI ZHIBIN ; MA TAO ; LI YING ; YANG LONG ; ZHANG RUYI ; BEIJING ITS STAR TECHNOLOGY CO LTD ; BEIJING XINGHE YIDA TECHNOLOGY CO LTD

Assignee(s): BEIJING XINGHEYIDA TECHNOLOGY CO ; BEIJING XINGHE YIDA TECHNOLOGY CO ; BEIJING ITS STAR TECHNOLOGY CO

Inventor(s): (std): RUYI ZHANG ; TAO MA ; YANG LONG ; ZHANG RUYI ; YI SHAO ; ZANXIN XU ; LI BIN ; LI YING ; LI ZHIBIN ; YAO ZHENGBIN ; SHAO ROSE ; MOU JIANCHAO ; LIN ZONGLI ; MA TAO ; KEFENG TIAN ; MINGHANG LI ; LI MINGHANG ; DONGWEI WANG ; SUIBING ZHENG ; WANG DONGWEI ; YING LI ; ZHIBIN LI ; KAI LI ; LI KAI ; LONG YANG ; XU ZANXIN

Inventor(s): SHAO YI ; ZHENG SUIBING ; TIAN KEFENG

Agent(s): LOWE HAUPTMAN AND HAM LLP; BEIJING GENIUS ESSEN INTELLECTUAL PROPERTY OFFICE

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

49) Family number: 54699527 (US2013229522A)

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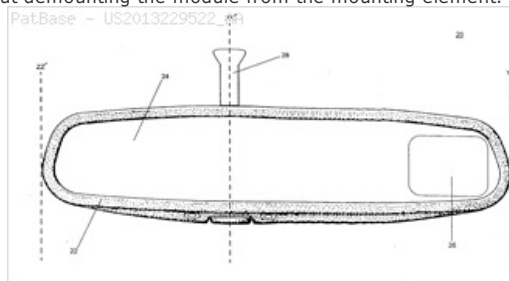
Title: ACCESSORY MOUNTING SYSTEM FOR A VEHICLE

Abstract: An accessory mounting system for a vehicle includes a mirror mounting button attached at an in-cabin surface of the vehicle windshield and a mounting element attached at the in-cabin surface of the windshield separate from the mounting button. An interior rearview mirror assembly has a mirror head and a mirror support, which includes a mirror mount configured to mount the mirror assembly to the mirror mounting button. A module is configured to be received at and supported by the mounting element attached at the windshield. The module accommodates a forward facing camera that views through the windshield. The forward facing camera may be part of a driver assistance system of the vehicle. With the module received by and supported by the mounting element, the mirror mount can be mounted to the mirror mounting button and can be demounted from the mirror mounting button without demounting the module from the mounting element.

Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00 B60K37/06 B60Q1/22 B60Q1/26 B60Q1/50 B60Q1/54 B60Q3/02 B60R1/00 B60R1/02 B60R1/04 B60R1/06 B60R1/12 B60R11/02 B60R11/04 B60R21/015 B60S1/08 G02B27/01 G06Q20/00 H04N5/225 H04N7/18 (Advanced/Invention); B60R11/00 B60R21/01 B60R21/015 G02B27/00 G02B6/00 (Advanced/Non-invention)
CPC: B60R1/04 B60R1/12 B60S1/0844 B60C23/00 B60C23/0408 B60K35/00 B60K37/06 B60Q1/22 B60Q1/2665 B60Q1/503 B60Q1/54 B60Q3/258 B60R1/06 B60R1/1207 B60R11/0235 B60R11/0241 B60R11/0247 B60R11/04 B60R21/01566 B60R2001/1215 B60R2001/1223 B60R2001/1253 B60R2001/1284 B60R2011/0026 B60R2011/0033 B60R2011/004 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 B60R2300/103 B60R2300/105 B60R2300/106 B60R2300/302 B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053 B60R2300/806 B60S1/0885 G02B6/00 G02B27/01 G02B27/0101 G02B2027/0118 G02B2027/012 H04N7/18 B60R2300/10 B60R2300/101 B60R1/02 B60R1/00 B60S1/0822 H04N7/183 B60K2370/143 B60K2370/1438

US: 1/1 348/148



Family:

Publication number	Publication date	Application number	Application date
US2013229522 AA	20130905	US20130845714	20130318
US9233645 BB	20160112	US20130845714	20130318

Priority:

US19990433467 19991104	US20000186520P 20000302	US20000218336P 20000714
US20000234412P 20000921	US20000237077P 20000930	US20000238483P 20001006
US20000243986P 20001027	US20000710016 20001110	US20010263680P 20010123
US20010793002 20010226	US20010997579 20011129	US20020232122 20020830
US20030618334 20030711	US20040755915 20040113	US20040913748 20040806
US20040940545 20040914	US20060418906 20060505	US20060441592 20060526
US20070625374 20070122	US20070699271 20070129	US20070828880 20070726
US20080052341 20080320	US20080197660 20080825	US20080276770 20081124
US20090467660 20090518	US20090536930 20090806	US20100759305 20100413
US20100764359 20100421	US20110039962 20110303	US20110278405 20111021
US20120345303 20120106	US20120674460 20121112	US20120689801 20121130
US20130749838 20130125	US20130749833 20130125	US20130845714 20130318

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): DONNELLY CORP ; MAGNA ELECTRONICS INC

Assignee(s): MAGNA MIRRORS OF AMERICA INC ; MAGNA DONNELLY CORP

Inventor(s): (std): BINGLE ROBERT L ; LYNAM NIAL R ; O BRIEN FRANK ; SCHOFIELD KENNETH

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

Title: VEHICULAR VIDEO MIRROR SYSTEM

Abstract: A video mirror system for a vehicle includes an interior rearview mirror assembly having an electrochromic reflective element and a video display screen disposed to the rear of the reflective element. The video display screen, when actuated, emits light that passes through a transfective mirror reflector of the reflective element to be visible to a driver of the vehicle viewing the reflective element. The video display screen includes a thin film transistor liquid crystal display element that is back lit by a plurality of white light emitting light emitting diodes. A camera having a field of view rearward of the vehicle is mounted at the rear of the vehicle and, during a reversing maneuver of the vehicle, a video output of the camera is displayed by the video display screen as video images so as to assist the driver in reversing the equipped vehicle.

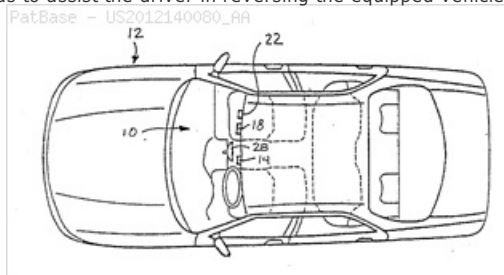
Classifications:

International (IPC 8-9): B60N2/90 B60R1/12 G01C21/00 G01C21/36 G01S19/48 G06Q20/00 H04N7/18 (Advanced/Invention); G01S5/14 (Advanced/Non-invention)

CPC: G01C21/20 G01C21/26 G01C21/00 G06K9/00805 B60C23/0408 B60Q1/2665 B60Q9/00 B60R1/088 B60R1/12 B60R2001/1215 B60R2001/1253 B60R2300/8066 G01C21/36 G01C21/365 H04N7/183 B60R1/00 B60Q5/006 B60R11/04 B60R2300/105 B60R2300/301 B60R2300/406 G01S13/862 G01S13/865 G01S13/867 H04N7/181 B60R2300/207 B60R2300/806 B60R2300/8093 G06T5/006 G06T2207/30252 H04N5/23293 H04N5/247 H04N5/265 B60N2/976

European: B60C23/04C B60N2/44P B60Q1/26J2 B60Q9/00 B60R1/00 B60R1/08G5 B60R1/12 G01C21/36 G01C21/36G7 L60R1/12B L60R1/12G L60R300/80R

US: 340/525 348/148 348/148P 348/E7.085 348/E70.85S 701/24 701/408 701/409 701/410



Family:

Publication number	Publication date	Application number	Application date
US2012140080 AA	20120607	US20120399347	20120217
US8271187 BB	20120918	US20120399347	20120217

Priority:

US20000186520P 20000302	US20000187960P 20000309	US20000218336P 20000714
US20000234412P 20000921	US20000237077P 20000930	US20000238483P 20001006
US20000243986P 20001027	US20010263680P 20010123	US20010793002 20010226
US20010271466P 20010226	US20010799414 20010305	US20010315384P 20010828
US20020346733P 20020107	US20020054633 20020122	US20020404906P 20020821
US20020405392P 20020823	US20020406166P 20020827	US20020287178 20021104
US20030456599 20030606	US20030645762 20030820	US20040755915 20040113
US20070624381 20070118	US20070935800 20071106	US20090405614 20090317
US20100724895 20100316	US20100908481 20101020	US20110209645 20110815
US20120399347 20120217		

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP ; LYNAM NIAL R ; MCCARTHY KEVIN C ; SCHOFIELD KENNETH ; TAYLOR DAVID W

Inventor(s): (std): TAYLOR DAVID W ; MCCARTHY KEVIN C ; LYNAM NIAL R ; SCHOFIELD KENNETH

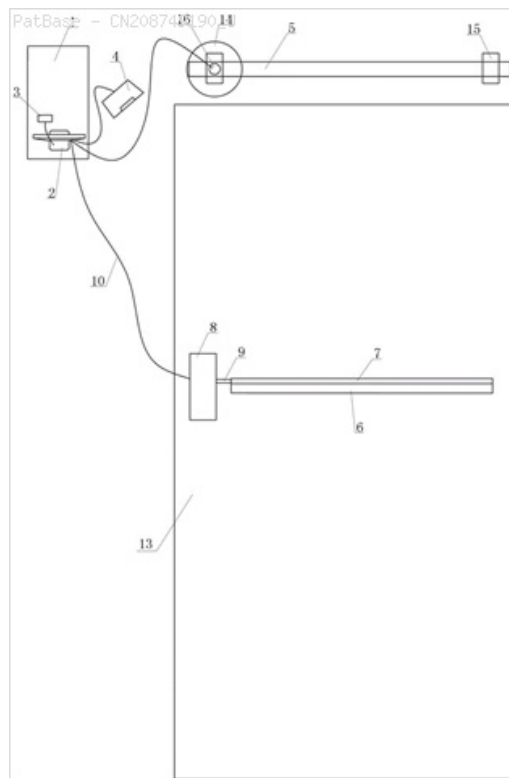
Agent(s): GARDNER LINN BURKHART AND FLORY LLP

Title: A method for driving out of a parking lot of the anti-collision device (Machine translation)

Abstract: Source: CN208749190U **Machine translation:** A method for driving out of a parking lot of the anti-collision device, which includes inter-booth, booth suite includes a host, a first data terminal and a keyboard connected to the host end of the second data, respectively, with the camera device, the barrier rod drive end is connected, which includes a stopper member, the stopper member comprises a bar stopper body and shaft mechanism, spindle mechanism and the drive motor of the motor shaft is connected, drive motor controlled end and a third end connected to the host data. The purpose of the present utility model is to solve the existing parking photographing time charge system in multiple vehicles rely too tight in the front barrier after payment completed out when the car will follow the speculative exit, disrupt social order of technical problems.

Classifications:

International (IPC 8-9): E04H6/42 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN208749190 U	20190416	CN201821425213U	20180831

Priority:

CN201821425213U 20180831

Probable Assignee: YICHANG TORCH GENTRY ENVIRONMENTAL SCIENCE AND TECHNOLOGY DEVELOPMENT CO LTD

Assignee(s): YICHANG TORCH GENTRY ENVIRONMENTAL SCIENCE AND TECHNOLOGY DEVELOPMENT CO LTD

52) Family number: 52815533 (US2013016209A)

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Title: DRIVER ASSIST SYSTEM FOR VEHICLE

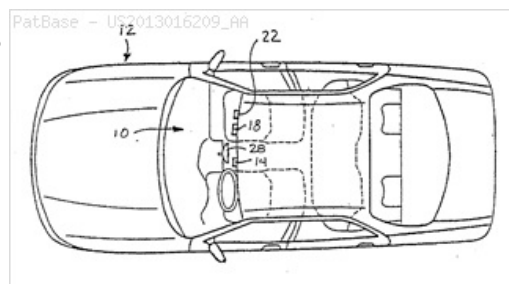
Abstract: A driver assist system for a vehicle includes a camera disposed at a vehicle and having an exterior field of view relative to the vehicle, and a video display operable to display image data captured by the camera and viewable by the driver of the vehicle. The driver assist system is operable to detect objects present in the exterior field of view of the camera. The driver assist system is operable to provide a display intensity of displayed image data of at least about 200 candelas/sq. meter for viewing by the driver. The driver assist system is operable to provide a visual alert and an audible alert responsive to detection of an object exterior of the vehicle. The visual alert includes electronically generated indicia that overlay displayed image data and that at least one of (i) indicate distance to a detected object and (ii) highlight a detected object.

Classifications:

International (IPC 8-9): B60N2/90 B60R1/12 G01C21/00 G01C21/36 G01S19/48 G06Q20/00 H04N7/18 (Advanced/Invention); G01S5/14 (Advanced/Non-invention)

CPC: G01C21/20 G01C21/26 G01C21/00 G06K9/00805 B60C23/0408 B60Q1/2665 B60Q9/00 B60R1/088 B60R1/12 B60R2001/1215 B60R2001/1253 B60R2300/8066 G01C21/36 G01C21/365 H04N7/183 B60R1/00 B60Q5/006 B60R11/04 B60R2300/105 B60R2300/301 B60R2300/406 G01S13/862 G01S13/865 G01S13/867 H04N7/181 B60R2300/207 B60R2300/806 B60R2300/8093 G06T5/006 G06T2207/30252 H04N5/23293 H04N5/247 H04N5/265 B60N2/976

US: 340/525 348/118 348/E7.085 701/24 701/408 701/409 701/410



Family:

Publication number	Publication date	Application number	Application date
US2013016209 AA	20130117	US20120621382	20120917
US8543330 BB	20130924	US20120621382	20120917
US8543330 K1	20180222	US20120621382	20120917

Priority:

US20000186520P 20000302	US20000187960P 20000309	US20000218336P 20000714
US20000234412P 20000921	US20000237077P 20000930	US20000238483P 20001006
US20000243986P 20001027	US20010263680P 20010123	US20010793002 20010226
US20010271466P 20010226	US20010799414 20010305	US20010315384P 20010828
US20020346733P 20020107	US20020054633 20020122	US20020404906P 20020821
US20020405392P 20020823	US20020406166P 20020827	US20020287178 20021104
US20030456599 20030606	US20030645762 20030820	US20040755915 20040113
US20070624381 20070118	US20070935800 20071106	US20090405614 20090317
US20100724895 20100316	US20100908481 20101020	US20110209645 20110815
US20120399347 20120217	US20120621382 20120917	

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): DONNELLY CORP ; LYNAM NIAL R ; MCCARTHY KEVIN C ; SCHOFIELD KENNETH ; TAYLOR DAVID W

Assignee(s): MAGNA DONNELLY CORP ; MAGNA ELECTRONICS INC ; MAGNA MIRRORS OF AMERICA INC

Inventor(s): (std): TAYLOR DAVID W ; SCHOFIELD KENNETH ; MCCARTHY KEVIN C ; LYNAM NIAL R

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

53) Family number: 41669545 (US2008080076A)

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Title: REARVIEW MIRROR ASSEMBLY WITH UTILITY FUNCTIONS

Abstract: An interior rearview mirror assembly for a vehicle includes a casing with a reflective element and a storage space. The storage space provides storage for at least one accessory and for storing the accessory in the location easily accessible by an occupant of the vehicle whereby the accessory can be inserted into and removed from the storage space for use by an occupant of the vehicle. The storage space may take the form of a recess provided in a top wall of the casing, a recessed portion provided in a front wall, back wall, or end wall of the casing. In one form, the recessed portion houses a pendent accessory which is dockable in and removable from the storage space for use by an occupant of the vehicle. For example, the pendent accessory may comprise a light assembly which is useable as a flashlight independently of the interior rearview mirror assembly or useable as a map light when docked in the mirror assembly. The storage space may also be used to hold workpieces or the like.

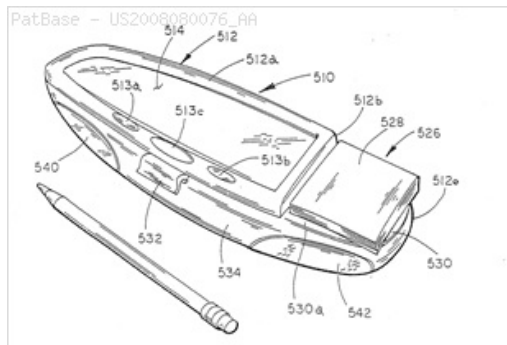
Classifications:

International (IPC 8-9): B60Q3/02 B60R1/12 B60R11/02 G02B7/182 G06Q20/00 (Advanced/Invention); B60R11/00 (Advanced/Non-invention)

CPC: B60R11/0247 B60Q3/258 B60Q3/59 B60R1/008 B60R1/04 B60R1/12 B60R1/1207 B60R11/0217 B60R11/0241 B60R2001/1253 B60R2001/1292 B60R2011/0026 B60R2011/0033 B60R2300/8013 G01C11/02 H04N7/181

European: B60Q3/02B12 B60Q3/02G B60R1/00L B60R1/12 B60R11/02D B60R11/02H L60R1/12A L60R1/12M L60R11/00P1K L60R11/00P1P L60R11/02G L60R300/80C1

US: 359/871 359/871P



Family:

Publication number	Publication date	Application number	Application date
US2008080076 AA	20080403	US20070935809	20071106

Priority:

US19990449121 19991124 US20000585379 20000601 US20020307929 20021202
US20050145253 20050603 US20070935809 20071106

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP

Inventor(s): (std): LYNAM NIAL R ; LINDAHL JOHN O ; HUTZEL BARRY W ; DEWIND DARRYL P

Inventor(s): DEWIND DARRYL ; HUTZEL BARRY ; LINDAHL JOHN ; LYNAM NIAL

Agent(s): VAN DYKE GARDNER LINN AND BURKHART LLP

54) Family number: 61809551 (US2006050929A)

© PatBase

Title: VISUAL VECTOR DISPLAY GENERATION OF VERY FAST MOVING ELEMENTS

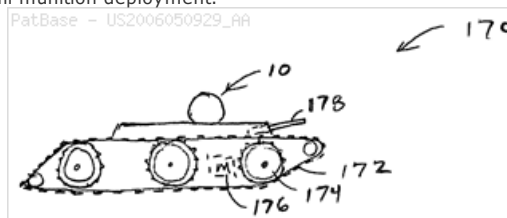
Abstract: Apparatus, system and method for providing tactical information. One aspect is a system and method for displaying vectors (preferably in real time) for very fast moving (VFM) elements, such as projectiles (e.g., bullets or shells), missiles, and other transient events that arise in a battlefield or civil police action. The system optically and/or acoustically collects information about the ordinance and displays vectors of otherwise unseen ordinance. One aspect is a device for collecting intelligence on and confusing enemy troops, as well as small munition deployment.

Classifications:

International (IPC 8-9): G06K9/00 (Advanced/Invention); G06K9/00 (Core/Invention)

European: F41G3/14D F42B5/03B G01S3/784 G01S5/16

US: 382/103



Family:

Publication number	Publication date	Application number	Application date
US2006050929 AA	20060309	US20050223512	20050909

Priority:

US20050223512 20050909

Probable Assignee: RAST RODGER H

Assignee(s): (std): RAST RODGER H ; WIESNER RICK M

Inventor(s): (std): RAST RODGER H ; WIESNER RICK M

Inventor(s): WIESNER RICK ; RAST RODGER

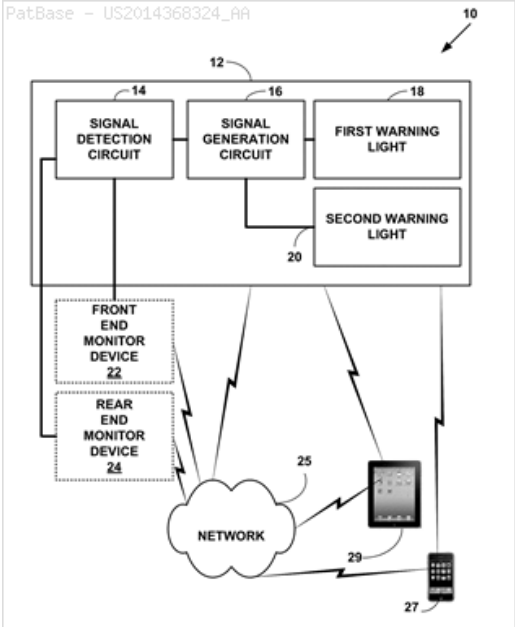
Agent(s): RODGER H RAST

Title: REAR END COLLISION PREVENTION APPARATUS

Abstract: A rear end collision apparatus. The rear end collision apparatus includes a first warning light to capture a driver's attention indicating a slow down or stop event is about to occur or is occurring and re-focuses a drivers' visual attention point and a different type of second warning light indicating the vehicle has not yet started re-accelerating after a slowing or stop event. The rear end collision prevention apparatus may be integrated into a Center High Mount Stop Lamp (CHMSL) on a vehicle or used as a separate apparatus. The rear end collision apparatus helps reduce or prevent rear end collisions of vehicles and reducing or preventing driver acclimatization to warning lights in a CHMSL or other rear end collision warning lights.

Classifications:

International (IPC 8-9): B60Q1/44 B60Q9/00
G08G1/16 (Advanced/Invention)
CPC: B60Q1/44 B60Q1/302 B60Q1/444 B60Q1/46 B60Q1/525
G08G1/166
US: 1/1 340/435



Family:

Publication number	Publication date	Application number	Application date
US2014368324 AA	20141218	US20130919113	20130617
US9090203 BB	20150728	US20130919113	20130617
WO14008201 A1	20140109	WO2013US48956	20130701

Priority:

US20120668502P 20120706 US20130919113 20130617

Probable Assignee: SEIFERT JERRY A

Assignee(s): (std): SEIFERT JERRY A

Inventor(s): (std): SEIFERT JERRY A

Agent(s): LESAVICH HIGH TECH LAW GROUP SC; STEPHEN; LESAVICH STEPHEN

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

Title: BASE BAND VEHICLE SAFETY APPARATUS

Abstract: 1370549 Pulse radar SPERRY RAND CORP 11 Oct 1972 [22 Oct 1971] 46851/72 Heading H4D A distance measuring sensor comprises a SPERRY RAND capacitor having a capacitance between collector and ground, the collector being coupled to a power supply, impedances between emitter and base and ground, a radiator transmission line coupled to the emitter and a receiver transmission line connected to the base such that short duration electromagnetic pulses launched by the radiator and reflected by an object are received by the receiver transmission line and means connected to the emitter to sense the repetition frequency of the transmitted pulses. The embodiment described is a motor vehicle safety device which operates brakes or an inflatable gas-bag if impending collision is detected. Closure of switch 20 which may be the ignition switch supplies a voltage 21 to charge capacitor 33 through resistor 30. Capacitor 33 may be formed from the stray capacitance inherent in the avalanche type transistor 31. At a certain voltage across 33, transistor 31 breaks down, rapidly discharging the capacitor via resistor 29. Thus a sharp, subnanosecond pulse is generated which is transmitted along coaxial cable 12 to a radiator transmission line 5 (Fig. 3, not shown). A suitable type is described in Specification 1,293,737 (Division H4). If there is no vehicle within a predetermined range, second and further pulses are generated by the breaking down of transistor 31, thus producing a steady stream of pulses at a fixed frequency. If the vehicle approaches within a predetermined range, a reflected signal will be received by transmission line antenna 6 and passed to the base of transistor 31. The amplitude of the received pulse is enough to trigger the transistor to produce a pulse. Thus the frequency of the output pulses at the emitter are inversely proportional to range. These pulses are integrated and the range displayed on meter 22. At a first warning range denoted by a frequency f 1 and detected by resonant circuit 143 an actuator 44 lights amber lamp 23 and/or applies the vehicle brakes. At a second alarm range, red lamp 24 is lit and the vehicle safety device, e.g. an inflatable gas-bag is actuated (Fig. 7, not shown). Instead of being actuated by the ignition switch, the capacitor 33 may be charged via switch 291 actuated by relay 290 which receives a signal from the speedometer (Fig. 6, not shown) such that the system functions only at speeds in excess of e.g. 8-10 m.p.h. The short sub-nanosecond pulses transmitted by the dispersionless antenna contain only very low components at any particular frequency and will not be detected by broad band receivers e.g. communication receivers in the vicinity. Vehicles may be equipped with rearwardly facing systems which receive and re-transmit pulses from following vehicles.

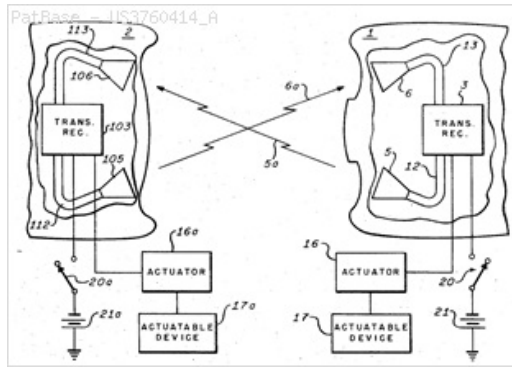
Classifications:

International (IPC 8-9): B60K31/00 B60K31/18 B60Q1/52 B60R21/01 G01S13/02 G01S13/93 G01S17/74 G01S17/93 (Advanced/Invention); B60R21/0134 (Advanced/Non-invention); B60K31/00 B60K31/18 B60Q1/50 B60R21/01 G01S13/00 G01S17/00 (Core/Invention); B60R21/0134 (Core/Non-invention)

International (IPC 1-7): B60K31/00 B60K31/18 B60N B60Q1/52 B60R21/00 B60R21/01 G01S11/00 G01S13/02 G01S13/93 G01S9/00 G01S9/06 G01S9/08 G01S9/10 G01S9/56 G08G1/00 H05B3/12 **CPC:** G01S2013/9325 G01S2013/9339 G01S2013/9346 G01S2013/9353 G01S2013/9367 G01S2013/9375 B60R21/013 B60K31/0008 B60K31/18 B60Q9/008 B60R21/0134 G01S13/0209 G01S13/931

European: 95N3D1A B60K31/00D B60K31/18 B60Q1/52A B60Q9/00E B60R21/013 B60R21/01C G01S13/02B G01S13/93C L60R21/0134

US: 342/21 342/88 343/6.50R

**Family:**

Publication number	Publication date	Application number	Application date
CA1008546 A1	19770412	CA19750234253	19750827
CA1008546 A2	19770412	CA19750234253	19750827
CA997843 A	19760928		00000000
CA997843 A1	19760928	CA19720150064	19720823
DE2251934 A1	19730426	DE19722251934	19721023
FR2154809 A1	19730511	FR19720037199	19721020
GB1370549 A	19741016	GB19720046851	19721011
GB1370550 A	19741016	GB19740004452	19721011
IT966416 A	19740211	IT19720053484	19721019
JP48051655 A2	19730720	JP19720099734	19721004
SE7509367 A	19750822	SE19750009367	19750822
US3760414 A	19730918	US19710191675	19711022

Priority:

US19710191675 19711022 CA19720150064 19720823 CA19750234253 19750827

Probable Assignee: SPERRY RAND CORP

Assignee(s): (std): SPERRY RAND CORP

Assignee(s): SPERRY RAND CORP NEW YORK N Y V ST A ; SPERRY RAND CORP US ; NICOLSON ALEXANDER M ; SPERRY RAND

Inventor(s): (std): NICOLSON ALEXANDER M ; NICOLSON ALEXANDER MURRAY ; NICOLSON A ; NICOLSON A M

Inventor(s): NICOLSON A US ; NICOLSON ALEXANDER MURRAY CONCORD MASS V ST A ; NICOLSON ALEXANDER MURRAY CONCORD MASS VSTA

57) Family number: 72767651 (US2019009721A)

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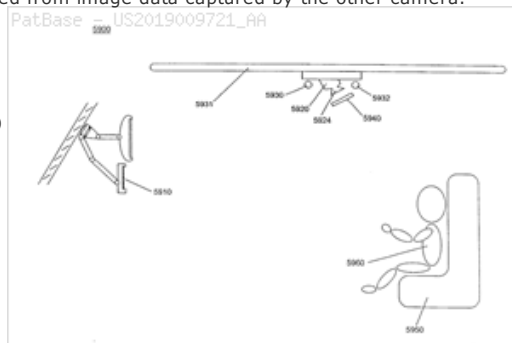
Title: VISION SYSTEM FOR A VEHICLE

Abstract: A vehicular vision system includes a driver-side exterior mirror assembly, a passenger-side mirror assembly and an interior mirror assembly. The fields of view of the mirror reflective elements of the exterior mirror assemblies are adjustable by the driver via a respective actuator. The exterior mirror assemblies include respective cameras that each have a respective rearward field of view that supplements the field of view of the mirror reflective element when viewed by the driver of the vehicle. A video display is disposed behind the mirror reflector of an interior mirror reflective element such that displayed video images are viewable through the mirror reflector of the interior mirror reflective element. The video display includes a driver-side display portion and a passenger-side display portion that each display images derived from image data captured by the respective camera while not displaying images derived from image data captured by the other camera.

Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00 B60Q1/26 B60Q1/50 B60Q1/54 B60Q3/02 B60Q3/258 B60R1/02 B60R1/04 B60R1/12 B60R11/02 B60R11/04 B60R21/015 B60S1/08 G02B27/01 G06Q20/00 H04N7/18 (Advanced/Invention); B60R11/00 B60R21/01 G02B27/00 G02B6/00 (Advanced/Non-invention) **CPC:** B60R1/02 B60C23/00 B60R2300/101 B60R2300/10 B60S1/0844 G02B2027/012 B60R1/04 B60Q3/258 B60R21/01566 H04N7/18 B60R1/12 B60C23/0408 B60K35/00 B60K37/06 B60Q1/22 B60Q1/2665 B60Q1/503 B60Q1/54 B60R1/00 B60R1/06 B60R1/1207 B60R11/0235 B60R11/0241 B60R11/0247 B60R11/04 B60R2001/1215 B60R2001/1223 B60R2001/1253 B60R2001/1284 B60R2011/0026 B60R2011/0033 B60R2011/004 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 B60R2300/103 B60R2300/105 B60R2300/106 B60R2300/302 B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053 B60R2300/806 B60S1/0822 B60S1/0885 G02B6/00 G02B27/01 G02B27/0101 G02B2027/0118 H04N7/183 B60K2370/143 B60K2370/1438

US: 348/148

**Family:**

Publication number	Publication date	Application number	Application date
US2019009721 AA	20190110	US20180112935	20180827

Priority:

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US20000237077P 20000930 US20000238483P 20001006 US20000243986P 20001027
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US20070625374 20070122 US20080052341 20080320 US20090536930 20090806
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US20170583113 20170501 US20170837027 20171211 US20180112935 20180827

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): MAGNA ELECTRONICS INC

Inventor(s): (std): LYNAM NIAL R ; BINGLE ROBERT L ; O BRIEN FRANK ; SCHOFIELD KENNETH

58) Family number: 66640683 (US2017237946A)

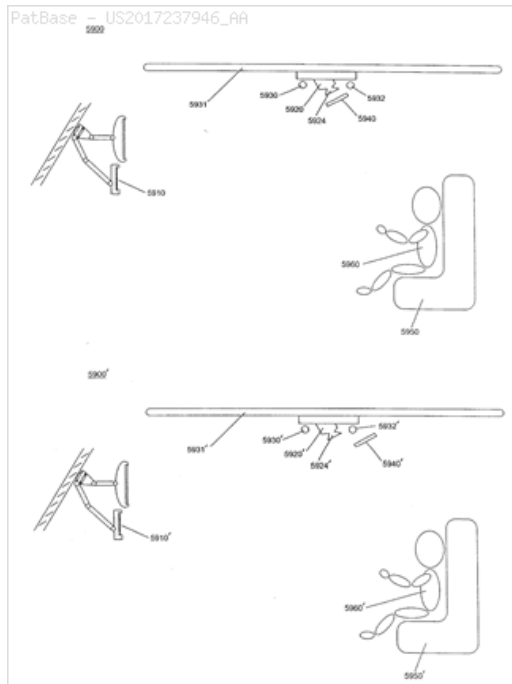
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Title: CABIN MONITORING SYSTEM FOR A VEHICLE

Abstract: A cabin monitoring system for a vehicle includes a video display screen disposed in a cabin of the vehicle so as to be viewable by a driver of the vehicle. A camera assembly is disposed at a ceiling of the cabin of the vehicle and includes a camera having an imager and a lens, with the camera having a field of view that encompasses a rear seat area of the vehicle. An illumination device is operable to illuminate the rear seat area encompassed by the field of view of the camera. The illumination device, when operated, illuminates the rear seat area and the camera captures image data representative of the illuminated rear seat area. The image data captured by the camera is provided to the video display screen for displaying video images for viewing by the driver of the vehicle.

Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00 B60Q1/26 B60Q1/50 B60Q1/54 B60Q3/02 B60Q3/60 B60Q3/74 B60Q3/80 B60R1/00 B60R1/04 B60R1/12 B60R11/02 B60R11/04 B60S1/08 G02B27/01 G06Q20/00 H04N5/225 H04N7/18 (Advanced/Invention); B60R11/00 B60R21/01 B60R21/015 G02B27/00 G02B6/00 (Advanced/Non-invention)
CPC: B60K35/00 B60R1/04 B60R2001/1215 B60C23/00 B60C23/0408 B60K37/06 B60Q1/22 B60Q1/2665 B60Q1/503 B60Q1/54 B60Q3/258 B60R1/06 B60R1/12 B60R1/1207 B60R11/0235 B60R11/0241 B60R11/0247 B60R11/04 B60R21/01566 B60R2001/1223 B60R2001/1253 B60R2001/1284 B60R2011/0026 B60R2011/0033 B60R2011/004 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 B60R2300/10 B60R2300/103 B60R2300/105 B60R2300/106 B60R2300/302 B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053 B60R2300/806 B60S1/0844 B60S1/0885 G02B6/00 G02B27/01 G02B27/0101 G02B2027/0118 G02B2027/012 H04N7/18 B60R2300/101 B60R1/02 B60R1/00 B60S1/0822 H04N7/183 B60K2370/143 B60K2370/1438
US: 1/1 348/148



Family:

Publication number	Publication date	Application number	Application date
US2017237946 AA	20170817	US20170583113	20170501
US9843777 BB	20171212	US20170583113	20170501

Priority:

US20000186520P 20000302	US20000218336P 20000714	US20000234412P 20000921
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US20170583113 20170501		

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): MAGNA ELECTRONICS INC

Inventor(s): (std): SCHOFIELD KENNETH ; LYNAM NIAL R ; O BRIEN FRANK ; BINGLE ROBERT L

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

59) Family number: 33540712 (WO0164481A2)

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Title: VIDEO MIRROR SYSTEMS INCORPORATING AN ACCESSORY MODULE

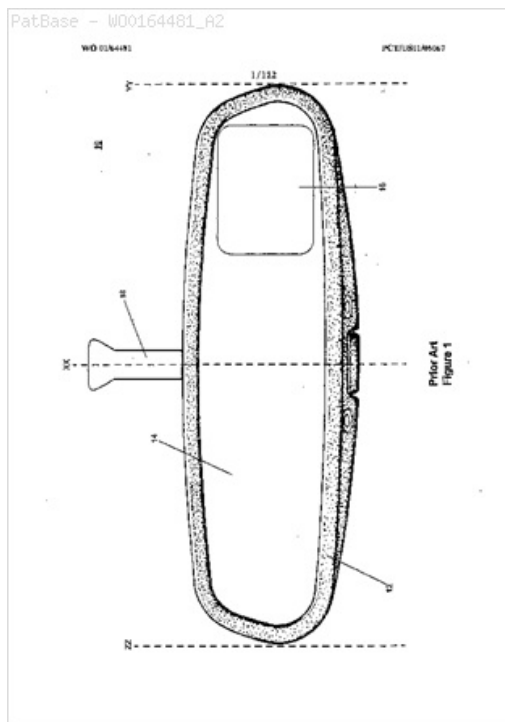
Abstract: A vehicular video mirror system includes an interior rearview mirror assembly and a video display assembly. The interior rearview mirror assembly includes a mirror casing incorporating a reflective element. The mirror assembly further includes a mirror-mounting portion. The mirror casing is adjustable about the mirror-mounting portion for adjusting the rearward field of view of the reflective element. The video display assembly includes a video screen which is incorporated in a video display housing. The display housing is adapted to be adjustable about the display-mounting portion for adjusting the orientation of the video screen and, further, for moving the display housing to a stowed position whereby the video screen is generally not viewable by a driver when seated in a vehicle seat in the vehicle to thereby minimize the distraction to the driver of the vehicle.

Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00 B60Q1/26 B60Q1/50 B60Q1/54 B60Q3/02 B60R1/04 B60R1/12 B60R11/02 B60R11/04 B60S1/08 G02B27/01 G06Q20/00 (Advanced/Invention); B60R11/00 B60R21/01 B60R21/015 G02B27/00 G02B6/00 (Advanced/Non-invention)
International (IPC 1-7): B60R1/00 B60R1/12
CPC: B60R1/04 B60R1/12 B60S1/0844 B60C23/00 B60C23/0408

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B60R11/0247 B60R11/04 B60R21/01566 B60R2001/1215
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B60R2300/103 B60R2300/105 B60R2300/106 B60R2300/302
B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053
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B60K2370/143 B60K2370/1438

European: B60C23/00 B60C23/04C B60K35/00 B60K37/06
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L60R300/40W L60R300/80E1 L60R300/80L L60R300/80N
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Family:

Publication number	Publication date	Application number	Application date
AU2001243285 AA	20010912	AU20010243285	20010226
AU200143285 A1	20010912	AU20010043285	20010226
AU200143285 A5	20010912	AU20010043285	20010226
EP1263626 A2	20021211	EP20010916237	20010226
WO0164481 A2	20010907	WO2001US06067	20010226
WO0164481 A3	20020523	WO2001US06067	20010226

Priority:

US20000186520P 20000302 US20000218336P 20000714 US20000234412P 20000721
US20000234412P 20000921 US20000237077P 20000930 US20000238483P 20001006
US20000243986P 20001027 US20010263680P 20010123 WO2001US06067 20010226

Probable Assignee: DONNELLY CORP

Assignee(s): (std): DONNELLY CORP

Inventor(s): (std): SCHOFIELD KENNETH ; O BRIEN FRANK ; LYNAM NIAL R ; BINGLE ROBERT L

Inventor(s): FRANK O BRIEN ; KENNETH SCHOFIELD ; NIAL R LYNAM ; ROBERT L BINGLE

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

60) Family number: 57179715 (US2014226009A)

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Title: TRAILER HITCHING AID SYSTEM FOR VEHICLE

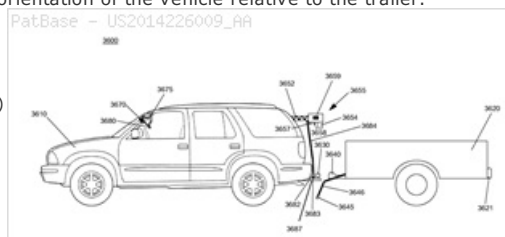
Abstract: A tow hitching aid system for a vehicle includes a camera, at least one ultrasonic sensor, a display screen and a control. The camera has a rearward field of view that encompasses a vehicle hitching element. The control receives input from the camera and input from the at least one ultrasonic sensor. When the vehicle is reversing towards a trailer hitching element of a trailer to establish a hitch connection, the control determines at least one of (i) distance to the trailer and (ii) orientation of the vehicle relative to the trailer, and during the reversing maneuver, the control (a) provides video images for display by the display screen and (b) provides, for display by the display screen, at least one graphic overlay that indicates to the vehicle driver at least one of (i) distance to the trailer and (ii) orientation of the vehicle relative to the trailer.

Classifications:

International (IPC 8-9): B60D1/36 B60D1/58 B60K35/00 B60K37/06
B60Q1/26 B60Q1/32 B60Q3/00 B60Q3/02 B60R1/00 B60R1/12
B60R11/02 B60R11/04 H04N7/18 (Advanced/Invention);
B60R11/00 G02B27/00 G02B27/01 G02B6/00 (Advanced/Non-invention)

CPC: H04N7/183 B60D1/58 B60R2300/808 B60K35/00 B60K37/06
B60K2350/1024 B60K2350/1028 B60Q1/2665 B60Q1/323 B60R1/12
B60R1/1207 B60R11/0235 B60R11/04 B60R2011/0026
B60R2011/0033 B60R2011/0082 B60R2011/0084 B60R2011/0089
B60R2011/0282 B60R2011/0288 B60R2011/0294 G02B6/00
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B60R1/00 B60R1/003 B60K2370/143 B60K2370/1438

US: 1/1 348/148



Family:

Publication number	Publication date	Application number	Application date
US2014226009 AA	20140814	US20140181778	20140217
US9352623 BB	20160531	US20140181778	20140217

Priority:

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US20010315384P 20010828 US20020346733P 20020107 US20020054633 20020122
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US20090609329 20091030 US20110309915 20111202 US20140181778 20140217

Probable Assignee: MAGNA ELECTRONICS INC**Assignee(s):** (std): MAGNA ELECTRONICS INC**Assignee(s):** MAGNA MIRRORS OF AMERICA INC ; DONNELLY CORP ; MAGNA DONNELLY CORP**Inventor(s):** (std): LYNAM NIAL R ; LINDAHL JOHN O**Agent(s):** GARDNER LINN BURKHART AND FLORY LLP**61) Family number: 32508723 (US2004029636A)**

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Title: GAMING DEVICE HAVING A THREE DIMENSIONAL DISPLAY DEVICE**Abstract:** A wagering gaming device having a three-dimensional display device which includes a plurality display screens. The display screens display three dimensional images having an height, actual width and depth.**Classifications:**

International (ipc 8-9): A63F11/00 A63F11/00 A63F13/00 A63F13/02 A63F13/06 A63F13/08 A63F13/10 A63F13/12 A63F13/211 A63F13/2145 A63F13/428 A63F5/04 A63F9/00 A63F9/24 G06F17/00 G06F19/00 G06F3/00 G06F3/01 G06F3/0346 G06F3/041 G06F3/043 G06F3/044 G06F3/045 G06F3/048 G06F3/0488 G07F17/32 G07F17/34 G09G5/00 G10L17/00 H04N13/00 (Advanced/Invention); A63B71/04 A63F13/00 A63F13/10 A63F13/211 A63F13/2145 A63F9/00 G02B27/22 G02F1/13 G02F1/1347 G09G5/00 H04N13/00 (Advanced/Non-invention); A63F11/00 A63F13/00 A63F13/08 A63F13/10 A63F13/12 A63F5/04 A63F9/00 A63F9/24 G06F17/00 G06F3/00 G06F3/01 G06F3/041 G06F3/048 G07F17/32 G10L17/00 H04N13/00 (Core/Invention); H04N13/00 (Core/Non-invention)

International (ipc 1-7): A63F13/00 A63F9/24 G06F161/00 G06F19/00 G07F17/32

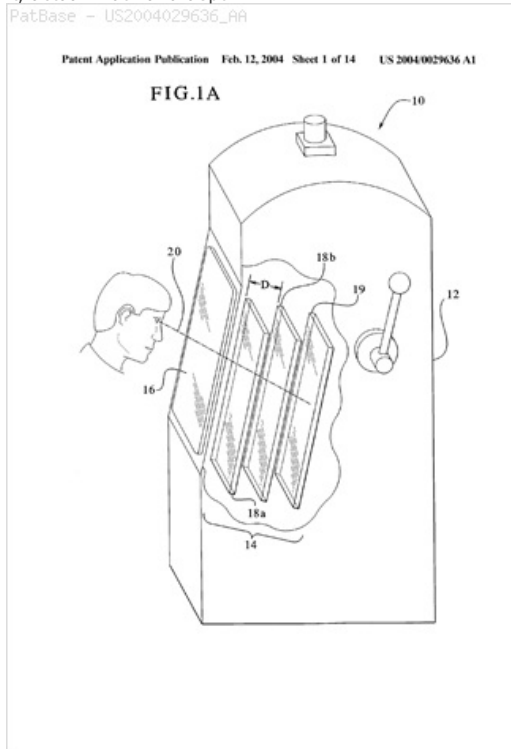
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European: A63F3/00A32 A63F5/04 A63F9/00 G06F3/00B8E G06F3/01B4 G06F3/01G G06F3/041T G06F3/043 G06F3/043R G06F3/044 G06F3/046 G06F3/0488 G06F3/0488T G07F17/32 G07F17/32C G07F17/32C2B G07F17/32C2D G07F17/32C2F G07F17/32C2F2 G07F17/32C4 G07F17/32C4B G07F17/32C4D G07F17/32C6 G07F17/32E6 G07F17/32E6D G07F17/32E6D2 G07F17/32H G07F17/32K12 G07F17/32K6 G07F17/32M4 G07F17/32M8D G07F17/32P2 G07F17/32P6 G07F17/34 G10L17/00U K63F300/10T1 K63F9/24N3B K63F9/24S2 S06F203/04808 T04N13/04V5

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Family:

Publication number	Publication date	Application number	Application date
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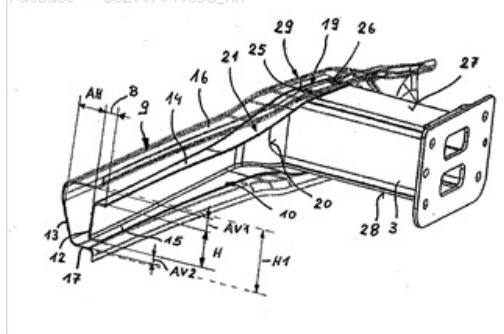
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Abstract: A bumper for a motor vehicle includes a cross member which is disposed transversely to side rails of a motor vehicle frame and connected to the side rails via crash boxes. The cross member has a C-shaped cross section and includes an outer shell member and an inner shell member. The inner shell member is constructed as tension link which is made of a material having a tensile strength that is greater than the tensile strength of a material of the outer shell member.

Classifications:

International (IPC 8-9): B60R19/02 B60R19/03 B60R19/04
B60R19/12 B60R19/18 B60R19/26 B60R19/34
B60R19/48 (Advanced/Invention);
B60R19/02 B60R19/03 B60R19/18 B60R19/24 (Core/Invention)
CPC: B60R19/18 B60R19/34 B60R2019/1826
European: B60R19/18 B60R19/34 L60R19/18B2H
US: 293/102 293/155

PatBase - US2007040398_AA



Family:

Publication number	Publication date	Application number	Application date
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Priority:

DE200510039489 20050818

Probable Assignee: BENTELER AUTOMOBILTECHNIK GMBH

Assignee(s): (std): BENTELER AUTOMOBILTECHNIK GMBH

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Inventor(s): ULRICH LUTKE BETXTEN ; ELMAR MOLLEMEIER ; MICHAEL ROLL

Agent(s): CABINET PLASSERAUD ; HENRY M FEIEREISEN HENRY M FEIEREISEN LLC ; FEIEREISEN HENRY M ; HENRY M

63) Family number: 51106755 (US2012120239A)

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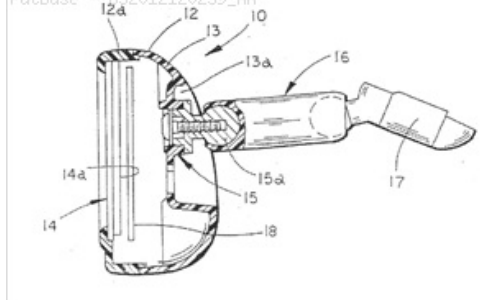
Title: FORWARD FACING IMAGING SYSTEM

Abstract: A forward facing imaging system for a vehicle includes an interior rearview mirror assembly mounted at an interior portion of a vehicle and a camera disposed at the interior rearview mirror assembly. The camera has a forward field of view through a windshield of the vehicle. The camera captures image data and captured image data is recorded by a recording system. During operation of the vehicle, the recording system records image data, as it is captured over a given period of operation of the vehicle, in a closed-loop fashion onto electronic memory. Image data, as captured by the camera, is processed by an image processor in order to determine the presence of at least one object forward of the equipped vehicle.

Classifications:

International (IPC 8-9): B60Q3/02 B60Q3/258 B60Q3/59 B60R1/00
B60R1/04 B60R1/12 B60R11/02 G01C11/02 G06Q20/00
H04N7/18 (Advanced/Invention);
B60R11/00 (Advanced/Non-invention)
CPC: B60R11/0247 B60Q3/258 B60Q3/59 B60R1/008 B60R1/04
B60R1/12 B60R1/1207 B60R11/0217 B60R11/0241 B60R2001/1253
B60R2001/1292 B60R2011/0026 B60R2011/0033 B60R2300/8013
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US: 348/143 348/143P 348/E7.085 348/E70.855

PatBase - US2012120239_AA



Family:

Publication number	Publication date	Application number	Application date
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US9827918 BB	20171128	US20120353492	20120119

Priority:

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Probable Assignee: DONNELLY CORP

Assignee(s): (std): DEWIND DARRYL P ; DONNELLY CORP ; HUTZEL BARRY W ; LINDAHL JOHN O ; LYNAM NIAL R

Inventor(s): (std): HUTZEL BARRY W ; LYNAM NIAL R ; LINDAHL JOHN O ; DEWIND DARRYL P

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

Title: ELECTRIC WINCH

Abstract: Apparatus and methods for operating a winch system comprising a wire spooled onto a drum rotatably mounted to a shaft. A permanent magnet is mounted to the drum such that, when an electric current is applied to a coiled winding mounted to the shaft, the drum rotates about the shaft. The winch comprises a first braking system that controls the rotation of the drum about the shaft by controlling the application of the electric current to the coiled winding. The winch also comprises a second braking system that mechanically engages the drum so as to prevent the rotation of the drum about the shaft. The winch is used in conjunction with a control system that facilitates the use of the winch with lifting and supporting personnel working in elevated environments.

Classifications:

International (IPC 8-9): B66D1/12 B66D1/30 B66D1/46 B66D1/48 B66D1/50 B66D1/52 B66D5/02 B66D5/30

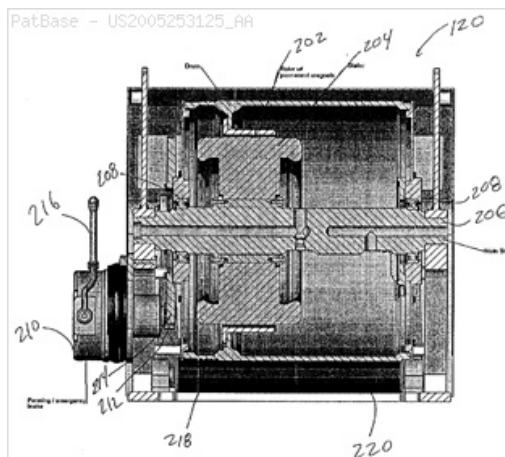
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International (IPC 1-7): B60P1/00 B66C1/06 B66D1/12 B66D1/46 B66D1/48 B66D1/50 B66D5/00 B66D5/02 B66D5/30 B66D5/32

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European: B66D1/12 B66D1/46 B66D1/50B B66D1/52 B66D5/02 B66D5/30 B66D5/32

US: 254/256 254/267 254/347 254/347P 254/368



Family:

Publication number	Publication date	Application number	Application date
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EP1591409 B1	20150318	EP20050252599	20050426
MXPA05004569 A1	20051212	MX2005PA04569	20050427
NO20052046 A	20051028	NO20050002046	20050426
NO20052046 A0	20050426	NO20050002046	20050426
NO20052046 L	20051028	NO20050002046	20050426
NO336289 B1	20150713	NO20050002046	20050426
US2005253125 AA	20051117	US20050908043	20050426
US7185881 BB	20070306	US20050908043	20050426

Priority:

US20040565750P 20040427 CA20052504749 20050420 EP20050252599 20050426
US20050908043 20050426

Probable Assignee: NATIONAL OILWELL LP

Assignee(s): (std): NAT OILWELL L P ; NAT OILWELL LP

Assignee(s): NATIONAL OILWELL L P ; NATIONAL OILWELL LP ; NATIONAL OILWELL VARCO LP ; NATIONAL OILWELL LP HOUSTON ; AUSTEFJORD ARNE ; DRARVIK IVAR

Inventor(s): (std): ARNE AUSTEFJORD ; AUSTEFJORD ARNE ; DRARVIK IVAR ; IVAR DRARVIK

Agent(s): DEETH WILLIAMS WALL LLP; HERNANDEZ YORCK DIPL ING; BECK GREENER; CONLEY ROSE PC

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 NL PL PT RO SE SI SK TR YU

Title: Control system for regulating access to reserved car parking places

Abstract: The system includes an electronic management circuit (2), a fixed coded radio signal transmitter (11) placed on the parking place to be protected, and a mobile coded radio transmitter mounted on board the vehicle which is authorised to use this parking place. The inputs to the electronic management circuit may include different sensors (9) - ultrasound, infrared, magnetic, or a digital code or card reader. The outputs of the management circuit may include the operation of a bi-directional motor (3), audible alarms (4), light warnings (5) and the operation of a voice message. Connectors are provided for 12 volt DC units operating in co-operation with this system.

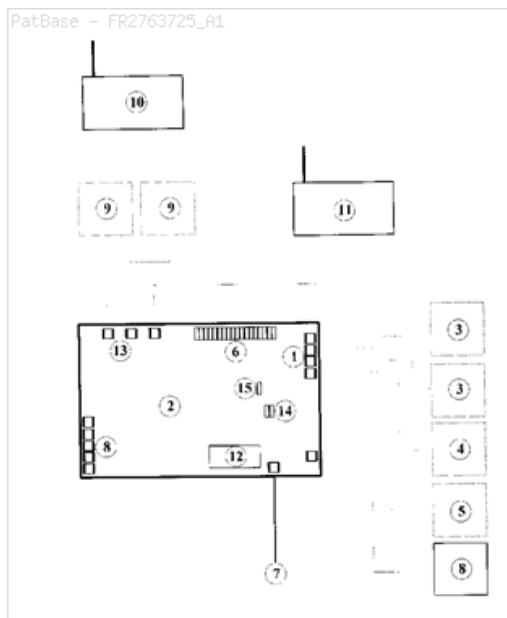
Classifications:

International (IPC 8-9): G08G1/14 (Advanced/Invention); G08G1/14 (Core/Invention)

International (IPC 1-7): G08C19/00 G08G1/133

CPC: G08G1/14

European: G08G1/14



Family:

Publication number	Publication date	Application number	Application date
FR2763725 A1	19981127	FR19970006641	19970526
FR2763725 B1	19990716	FR19970006641	19970526

Priority:

FR19970006641 19970526

Probable Assignee: KOVATCHITCH MAURICE

Assignee(s): (std): KOVATCHITCH MAURICE

Inventor(s): (std): KOVATCHITCH MAURICE

66) Family number: 62043774 (US2016098864A)

© PatBase

Title: METHOD AND SYSTEM OF COMMUNICATION OF A PUBLIC MODULE INTERFACE OF A DATA EXCHANGE SYSTEM USING NFC TECHNOLOGY

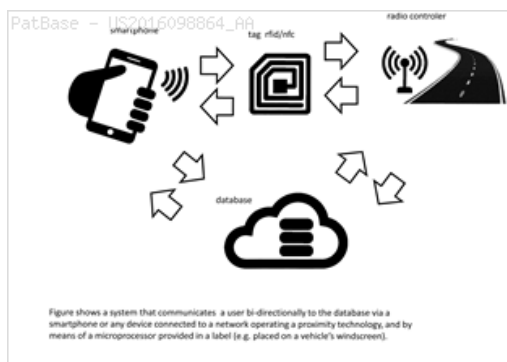
Abstract: A system communication module for a public interface for data exchange using a NFC technology, containing the NFC technology, a Bluetooth, a GPS, a Wi-Fi, a S-Beam, the system communication module including a database with a data register, a data concentrator that perform bi-directional data verification, a radio controller to read data from a tag, a visual identification system to identify a vehicle without a tag, a billing system, and a marker tag located on the vehicle and fitted with a microprocessor.

Classifications:

International (IPC 8-9): G07B15/06 H04B5/00 (Advanced/Invention)

CPC: H04B5/0025 G07B15/063

US: 705/13



Family:

Publication number	Publication date	Application number	Application date
EP3002735 A1	20160406	EP20140460059	20141004
US2016098864 AA	20160407	US20140571236	20141215
WO16050986 A1	20160407	WO2015EP72947	20151005

Priority:

EP20140460059 20141004

Probable Assignee: NAWROCKI PIOTR

Assignee(s): (std): NAWROCKI PIOTR

Inventor(s): (std): NAWROCKI PIOTR ; RYBKA WOJCIECH

Agent(s): SIELEWIESIUK JAKUB

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

Title: METHOD AND SYSTEM FOR AUTONOMOUS VEHICLES

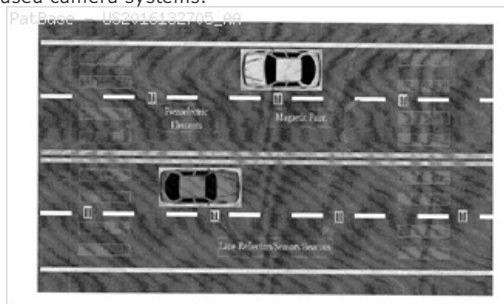
Abstract: A method and system for facilitating cost effective, reliable, system redundant, self-driving vehicles involves the employment of specialized lane marking components that permit unprecedented sensor feedback, and in particular, a system and method that enables accurate lane marking recognition despite adverse weather conditions, which presently pose problems experienced by self-driving systems that rely upon vision based camera systems.

Classifications:

International (IPC 8-9): B60R1/00 B62D1/04 B62D15/00 E01C11/00 E01C9/00 E01F11/00 E01F9/00 E01F9/30 E01F9/576 G01S19/13 G05D1/02 G06K7/10 H04M1/725 H04W4/12 (Advanced/Invention); G05D1/02 (Advanced/Non-invention)

CPC: H04W4/12 B62D1/04 B62D15/00 B60R1/00 H04M1/72552 B60R2300/205 G06K7/10376 E01F9/30 E01F9/578 B60R11/02 B60R11/0264 B60R2011/001 B60R2011/0059 G05D1/0259 G05D2201/0213

US: 340/10.3 404/71 455/569.2



Family:

Publication number	Publication date	Application number	Application date
US2016132705 AA	20160512	US20150938352	20151111
US2016323722 AA	20161103	US20160155278	20160516
US2018157878 AA	20180607	US20180883223	20180130
US2019018989 AA	20190117	US20180131127	20180914
US9892296 BB	20180213	US20150938352	20151111
US10078770 BB	20180918	US20180883223	20180130

Priority:

US20140078539P 20141112	US20150163163P 20150518	US20150938352 20151111
US20150938352 20151115	US20160155278 20160516	US20180883223 20180130
US20180131127 20180914		

Probable Assignee: KOVARIK JOSEPH E

Assignee(s): (std): KOVARIK JAMES J ; KOVARIK JOSEPH E ; KOVARIK KATHERINE ROSE

Inventor(s): (std): KOVARIK JAMES J ; KOVARIK JOSEPH E ; KOVARIK KATHERINE ROSE

Agent(s): SHERIDAN ROSS PC

Title: ACCESSORY MOUNTING SYSTEM FOR A VEHICLE

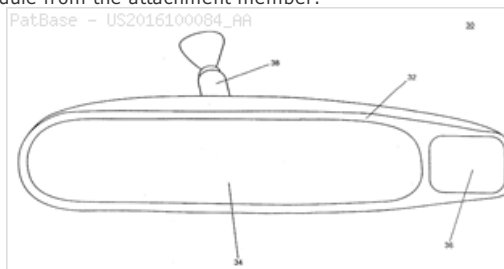
Abstract: An accessory system for a vehicle includes an attachment element bonded to an in-cabin windshield surface at a first windshield location and an attachment member attached at the in-cabin windshield surface at a second windshield location. An interior rearview mirror assembly has a mirror support that has a mirror mount configured to mount the mirror assembly to the attachment element. A module is configured to be received by and be supported by the attachment member attached at the windshield. With the module received by and supported by the attachment member at the windshield, a camera of the module views through the windshield and is part of a driver assistance system of the vehicle. With the module received by and supported by the attachment member at the windshield, the mirror mount can be mounted to and demounted from the attachment element without demounting the module from the attachment member.

Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00 B60K37/06 B60Q1/06 B60Q1/22 B60Q1/26 B60Q1/50 B60Q1/54 B60Q3/02 B60Q3/258 B60R1/00 B60R1/02 B60R1/04 B60R1/06 B60R1/12 B60R11/02 B60R11/04 B60R16/023 B60R21/015 B60S1/08 G02B27/01 G06Q20/00 H04N5/225 H04N5/232 H04N5/76 H04N7/18 (Advanced/Invention); B60R11/00 B60R21/01 B60R21/015 G02B27/00 G02B6/00 (Advanced/Non-invention)

CPC: B60R1/04 B60R1/12 B60S1/0844 B60C23/00 B60C23/0408 B60K35/00 B60K37/06 B60Q1/22 B60Q1/2665 B60Q1/503 B60Q1/54 B60Q3/258 B60R1/06 B60R1/1207 B60R11/0235 B60R11/0241 B60R11/0247 B60R11/04 B60R21/01566 B60R2001/1215 B60R2001/1223 B60R2001/1253 B60R2001/1284 B60R2011/0026 B60R2011/0033 B60R2011/004 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 B60R2300/103 B60R2300/105 B60R2300/106 B60R2300/302 B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053 B60R2300/806 B60S1/0885 G02B6/00 G02B27/01 G02B27/0101 G02B2027/0118 G02B2027/012 H04N7/18 B60R2300/10 B60R2300/101 B60R1/02 B60R1/00 B60S1/0822 H04N7/183 B60K2370/143 B60K2370/1438

US: 1/1 348/148



Family:

Publication number	Publication date	Application number	Application date
US2016100084 AA	20160407	US20150971196	20151216
US9637053 BB	20170502	US20150971196	20151216

Priority:

US19990433467 19991104	US20000186520P 20000302	US20000218336P 20000714
US20000234412P 20000921	US20000237077P 20000930	US20000238483P 20001006
US20000243986P 20001027	US20000710016 20001110	US20010263680P 20010123
US20010793002 20010226	US20010997579 20011129	US20020232122 20020830
US20030618334 20030711	US20040755915 20040113	US20040913748 20040806
US20040940545 20040914	US20060418906 20060505	US20060441592 20060526

US20070625374	20070122	US20070699271	20070129	US20070828880	20070726
US20080052341	20080320	US20080197660	20080825	US20080276770	20081124
US20090467660	20090518	US20090536930	20090806	US20100759305	20100413
US20100764359	20100421	US20110039962	20110303	US20110278405	20111021
US20120345303	20120106	US20120674460	20121112	US20120689801	20121130
US20130749838	20130125	US20130749833	20130125	US20130845714	20130318
US20150946854	20151120	US20150971196	20151216		

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): MAGNA ELECTRONICS INC

Inventor(s): (std): SCHOFIELD KENNETH ; LYNAM NIAL R ; O BRIEN FRANK ; BINGLE ROBERT L

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

69) Family number: 60365823 (US2018135328A)

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Title: AGV COMB-TYPE TRANSFER ROBOT

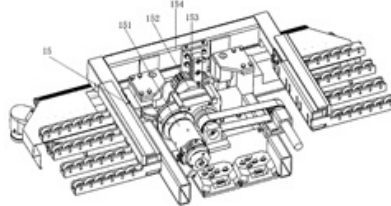
Abstract: An AGV comb-type transfer robot, comprising: a lifting frame (2), comb teeth being mounted on the lifting frame (2); and a traveling frame (1), a comb tooth lifting apparatus (15) being mounted on the traveling frame (1), and a traveling drive mechanism (13) and a central control system being mounted in the traveling frame (1). The comb tooth lifting apparatus (15) comprises a lifting drive motor (151) and a gear set (152) in transmission connection with the motor (151). The traveling drive mechanism (13) comprises a traveling drive motor and a traveling wheel set mounted in the traveling frame (1). The present invention also relates to a method for storing and retrieving a vehicle using the robot. The transfer efficiency and intelligent level of the robot are high.

Classifications:

International (IPC 8-9): B65G1/04 B65G1/10 E04H6/34 E04H6/36 E04H6/42 G05D1/02 (Advanced/Invention)

CPC: E04H6/36 E04H6/307 E04H6/34 B65G1/04 G05D1/0259 G05D1/0225 G05D1/0236 G05D1/0214 E04H6/422 E04H6/424 G05D1/024 G05D1/0272 G05D2201/0216

PatBase - US2018135328_AA



Family:

Publication number	Publication date	Application number	Application date
CN104912372 A	20150916	CN201510317656	20150610
SG11201710180S A1	20180130	SG20171110180	20160119
US2018135328 AA	20180517	US20160735142	20160119
WO16197610 A1	20161215	WO2016CN071387	20160119

Priority:

CN201510317656 20150610 WO2016CN071387 20160119

Probable Assignee: SHENZHEN YEEFUNG AUTOMATION TECHNOLOGY LTD

Assignee(s): (std): SHENZHEN YEEFUNG AUTOMATION TECHNOLOGY CO LTD ; SHENZHEN YEEFUNG AUTOMATION TECHNOLOGY LTD ; SHENZHEN YEEFUNG ROBOTICS AND DYNAMICS LTD ; SHENZHEN YIFENG ROBOT TECHNOLOGY CO LTD

Assignee(s): SHENZHEN YIFENG ROBOT TECHNOLOGY CO ; SHENZHEN YEE FUNG ROBOT TECHNOLOGY CO LTD

Inventor(s): (std): FANG SIHAN ; WU HAO ; QUE JINGYANG ; CAI YINGJIE

Agent(s): DHC IP ATTORNEYS

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

70) Family number: 50778836 (US2012062744A)

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Title: REAR VISION SYSTEM FOR A VEHICLE

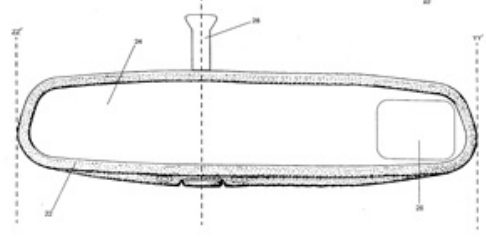
Abstract: A rear vision system includes a video camera for capturing video images and a video display disposed in the cabin of the vehicle for displaying the video images captured by the camera. The video camera has a field of view that at least encompasses a vehicle hitch connector of the vehicle. The display displays the video images for viewing by a driver of the vehicle to assist the driver in reversing the vehicle and/or connecting the vehicle hitch connector of the vehicle to a tow hitch connector of a trailer. A graphic overlay may be superimposed on the displayed video images for viewing by a driver of the vehicle to guide or assist the driver when executing a reversing maneuver and/or when connecting a tow hitch connector of a trailer to the vehicle hitch connector of the vehicle.

Classifications:

International (IPC 8-9): B60C23/00 B60C23/04 B60K35/00 B60Q1/00 B60Q1/26 B60Q1/50 B60Q1/54 B60Q3/02 B60R1/04 B60R1/12 B60R11/02 B60R11/04 B60S1/08 G02B27/01 G06Q20/00 H04N7/18 (Advanced/Invention); B60R11/00 B60R21/01 B60R21/015 G02B27/00 G02B6/00 (Advanced/Non-invention)

CPC: B60R1/04 B60R1/12 B60S1/0844 B60C23/00 B60C23/0408 B60K35/00 B60K37/06 B60Q1/22 B60Q1/2665 B60Q1/503 B60Q1/54 B60Q3/258 B60R1/06 B60R1/1207 B60R11/0235 B60R11/0241 B60R11/0247 B60R11/04 B60R21/01566 B60R2001/1215 B60R2001/1223 B60R2001/1253 B60R2001/1284 B60R2011/0026 B60R2011/0033 B60R2011/004 B60R2011/0082 B60R2011/0084 B60R2011/0089 B60R2011/0282 B60R2011/0288 B60R2011/0294 B60R2300/103 B60R2300/105 B60R2300/106 B60R2300/302 B60R2300/406 B60R2300/8026 B60R2300/804 B60R2300/8053

PatBase - US2012062744_AA



B60R2300/806 B60S1/0885 G02B6/00 G02B27/01 G02B27/0101 G02B2027/0118 G02B2027/012 H04N7/18 B60R2300/10 B60R2300/101 B60R1/02 B60R1/00 B60S1/0822 H04N7/183 B60K2370/143 B60K2370/1438
European: B60C23/00 B60C23/04C B60K35/00 B60K37/06 B60Q1/22 B60Q1/26J2 B60Q1/50A B60Q1/54 B60Q3/02B12 B60R1/00 B60R1/04 B60R1/06 B60R1/12 B60R11/02E2 B60R11/02H B60R11/04 B60S1/08F2 B60S1/08F2D8 B60S1/08F2P6 G02B27/01 G02B27/01A H04N7/18 L60K350/10J5 L60K350/10J5D L60R1/12A L60R1/12B L60R1/12C L60R1/12G L60R1/12L L60R11/00P1K L60R11/00P1P L60R11/00P3 L60R11/00R6A L60R11/00R6C L60R11/00R6D3 L60R11/02G L60R11/02S L60R11/02T L60R11/02W L60R21/015R L60R300/10L L60R300/10M L60R300/10N L60R300/30G L60R300/40W L60R300/80E1 L60R300/80L L60R300/80N L60R300/80P S02B27/01A4 S02B27/01A4A S02B6/00
US: 340/425.5 340/438 348/148 348/148P 348/151 348/E7.085 348/E70.85S 362/494

Family:

Publication number	Publication date	Application number	Application date
US2012062744 AA	20120315	US20110278405	20111021
US8427288 BB	20130423	US20110278405	20111021

Priority:

US20000186520P 20000302	US20000218336P 20000714	US20000234412P 20000921
US20000237077P 20000930	US20000238483P 20001006	US20000243986P 20001027
US20010263680P 20010123	US20010793002 20010226	US20040755915 20040113
US20070625374 20070122	US20080052341 20080320	US20090536930 20090806
US20110278405 20111021		

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): BINGLE ROBERT L ; DONNELLY CORP ; LYNAM NIAL R ; SCHOFIELD KENNETH ; O BRIEN FRANK

Assignee(s): MAGNA DONNELLY CORP ; MAGNA ELECTRONICS INC ; MAGNA MIRRORS OF AMERICA INC

Inventor(s): (std): BINGLE ROBERT L ; SCHOFIELD KENNETH ; LYNAM NIAL R ; O BRIEN FRANK

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

71) Family number: 59937837 (US2015210217A)

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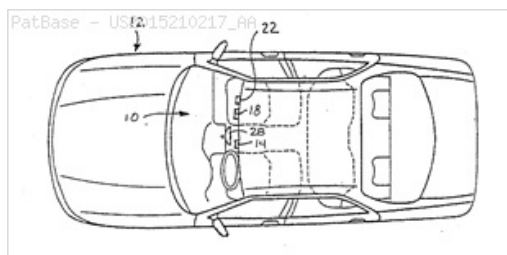
Title: DRIVER ASSIST SYSTEM FOR VEHICLE

Abstract: A driver assist system for a vehicle includes at least one non-visual sensor and a color video rear backup camera having a field of view rearward of the vehicle, with the field of view of the camera encompassing a ground area to the rear of the vehicle. An image processor processes image data captured by the camera. A video display screen is viewable by a driver of the vehicle. During a reversing or parking maneuver of the vehicle, images derived, at least in part, from image data captured by the camera are displayed by the video display screen to assist the driver in operating the vehicle. At least one indication is provided to a driver of the vehicle, at least in part, responsive to detection by the non-visual sensor of at least one object external of the vehicle.

Classifications:

International (IPC 8-9): B60C23/04 B60N2/44 B60N2/90 B60Q1/26 B60Q5/00 B60Q9/00 B60R1/00 B60R1/08 B60R1/12 B60R11/04 G01C21/00 G01C21/36 G01S13/86 G01S19/48 G06K9/00 G06Q20/00 H04N7/18 (Advanced/Invention); G01C21/20 G01C21/26 G01S5/14 (Advanced/Non-invention)
CPC: B60R1/00 B60Q5/006 G01S13/862 G01S13/865 G01S13/867 H04N7/181 B60R2300/105 B60R2300/301 B60R2300/406 B60R2300/8066 B60C23/0408 B60Q1/2665 B60Q9/00 B60R1/088 B60R1/12 B60R11/04 B60R2001/1215 B60R2001/1253 G01C21/00 G01C21/20 G01C21/26 G01C21/36 G01C21/365 G06K9/00805 H04N7/183 B60R2300/207 B60R2300/806 B60R2300/8093 G06T5/006 G06T2207/30252 H04N5/23293 H04N5/247 H04N5/265 B60N2/976

US: 1/1 342/55 348/118 367/87



Family:

Publication number	Publication date	Application number	Application date
US2015210217 AA	20150730	US20150678145	20150403
US9315151 BB	20160419	US20150678145	20150403

Priority:

US20000186520P 20000302	US20000187960P 20000309	US20000218336P 20000714
US20000234412P 20000921	US20000237077P 20000930	US20000238483P 20001006
US20000243986P 20001027	US20010263680P 20010123	US20010793002 20010226
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US20020346733P 20020107	US20020054633 20020122	US20020404906P 20020821
US20020405392P 20020823	US20020406166P 20020827	US20020287178 20021104
US20030456599 20030606	US20030645762 20030820	US20040755915 20040113
US20070624381 20070118	US20070935800 20071106	US20090405614 20090317
US20100724895 20100316	US20100908481 20101020	US20110209645 20110815
US20120399347 20120217	US20120621382 20120917	US20130033963 20130923
US20140211256 20140314	US20150678145 20150403	

Probable Assignee: MAGNA ELECTRONICS INC

Assignee(s): (std): MAGNA ELECTRONICS INC

Assignee(s): MAGNA MIRRORS OF AMERICA INC ; DONNELLY CORP ; MAGNA DONNELLY CORP

Inventor(s): (std): LYNAM NIAL R ; MCCARTHY KEVIN C ; SCHOFIELD KENNETH ; TAYLOR DAVID W

Agent(s): GARDNER LINN BURKHART AND FLORY LLP

72) Family number: 55975845 (WO14037535A1)

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Title: DEVICE FOR CLEANING SURFACES

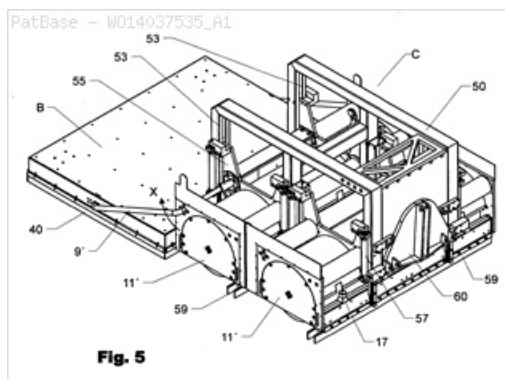
Abstract: The invention relates to a device for cleaning surfaces, wherein the device is or can be mounted on top of and/or on a mobile platform that can be moved in a working direction, for example a carrier vehicle and, together with the mobile platform, is designed for autonomous operation, wherein the device comprises the following elements, arranged one after

another in the working direction: a heating element (B) for heating up the surface to be cleaned, wherein the heating element (B) comprises a flat steam matrix which, in operation, applies steam to the surface to be cleaned; an element (C) for the mechanical processing of the surface to be cleaned, which comprises at least one such partial element (1 1) which permits the removal of the loosened or detached contaminants on the surface to be cleaned by means of rotation and ground pressure, wherein the rotation is carried out about an axis arranged horizontally and transversely with respect to the working direction; an element (D) for sucking up the contaminants and the water produced by condensation of the steam from the cleaned surface.

Classifications:

International (IPC 8-9): E01H1/05 E01H1/10 (Advanced/Invention); E01H1/00 (Core/Invention)

CPC: E01H1/056 E01H1/103



Family:

Publication number	Publication date	Application number	Application date
CH706921 A1	20140314	CH20120001592	20120906
DE502013007094 D1	20170608	DE201350007094T	20130906
DK2920371 T3	20170731	DK20130786429T	20130906
EP2920371 A1	20150923	EP20130786429	20130906
EP2920371 B1	20170426	EP20130786429	20130906
ES2629737 T3	20170814	ES20130786429T	20130906
SI2920371 T1	20170831	SI20130030695T	20130906
TR201709990 T4	20170921	TR20170009990T	20130906
WO14037535 A1	20140313	WO2013EP68519	20130906

Priority:

CH20120001592 20120906 EP20130786429 20130906 WO2013EP68519 20130906

Probable Assignee: ZAUGG EGGIWIL AG

Assignee(s): (std): NEF WERNER ; ZAUGG EGGIWIL AG

Assignee(s): WERNER NEF

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

73) Family number: 59086849 (US2015120146A)

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Title: APPARATUS AND METHOD FOR ADJUSTING MONITORING AREA OF REMOTE MONITOR

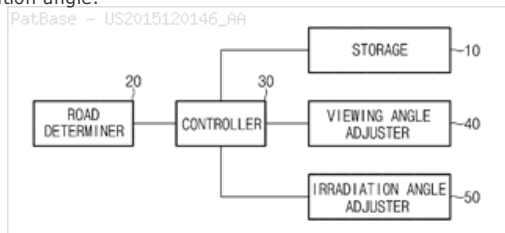
Abstract: An apparatus for adjusting a monitoring area of a remote monitor according to the present disclosure comprises a storage for storing a viewing angle and an irradiation angle of the remote monitor depending on a type of a road. A road determiner determines the type of the road on which a vehicle drives. A controller searches the viewing angle and the irradiation angle corresponding to the type of the road determined by the road determiner in the storage. A viewing angle adjuster sets the viewing angle searched by the controller as a reference viewing angle. An irradiation angle adjuster sets the irradiation angle searched by the controller as a reference irradiation angle.

Classifications:

International (IPC 8-9): B60R21/00 B60W40/06 G01S17/02 G01S7/483 (Advanced/Invention)

CPC: G01S17/02 G01S17/023 G01S17/89 G01S17/936 B60R21/00 G01S7/483 B60W40/06

US: 701/45



Family:

Publication number	Publication date	Application number	Application date
KR20150047852 A	20150506	KR20130127840	20131025
US2015120146 AA	20150430	US20140285758	20140523

Priority:

KR20130127840 20131025

Probable Assignee: HYUNDAI MOTOR CO

Assignee(s): (std): HYUNDAI MOTOR CO LTD

Assignee(s): HYUNDAI MOTOR COMPANY ; HYUNDAI MOTOR CO
Inventor(s): (std): HEO MYUNG SEON ; OH YOUNG CHUL

74) Family number: 54594939 (US2013278440A) PatBase

Title: ANTI-COLLISION SYSTEM AND METHOD USING MESSAGE FORMATS CONTAINING DISTANCES

Abstract: Device, system and method of implementing a wireless vehicle-to-vehicle anti-collision system. Details of message formats are described, particularly efficient formats using flags and compressed data, expressing distances, both in the horizontal and vertical directions. Details of protocols are described. Details of encoding locations, headings and speed are described. In one embodiment messages are free of IP addresses and MAC addresses. Roadway elevation is included in some embodiments.

Classifications:

International (IPC 8-9): B60Q1/00 B60R22/00 G01C21/10 G01C21/26 G01C21/28 G01C21/34 G01C21/36 G01S19/40 G06F17/10 G06F9/45 G08G1/01 G08G1/052 G08G1/09 G08G1/0967 G08G1/0968 G08G1/0969 G08G1/14 G08G1/16 G08G9/02 G09B29/00 H04B7/212 H04B7/26 H04H20/71 H04J3/00 H04J3/06 H04J3/16 H04K1/00 H04L12/413 H04L29/08 H04L5/00 H04W4/04 H04W4/06 H04W4/12 H04W52/04 H04W56/00 H04W72/00 H04W72/04 H04W74/08 H04W76/00 (Advanced/Invention); B60R25/33 B60W10/06 B60W10/18 B60W10/20 B60W50/14 G01S5/00 G08G1/00 G08G1/16 H04L29/08 H04W4/22 H04W64/00 H04W74/08 H04W76/00 H04W76/02 H04W76/14 H04W76/40 (Advanced/Non-invention)

CPC: G08G1/166 G08G1/09 G08G9/02 B60R25/33 G01S5/0027 B60R2325/205 G08G1/20 G08G1/142 G08G1/0969 G01C21/3658 G08G1/167 G08G1/161 H04W4/06 H04W64/006 B60W10/06 B60W10/18 B60W10/20 B60W50/14 B60W2550/402 G01C21/26 H04W72/0446 H04L5/0091 G08G1/16 H04J3/1694 G08G1/163 H04L67/12 H04W56/0025 H04W74/0816 G08G1/162 H04W4/046 H04W4/12 G08G1/052 G08G1/096791 H04W4/90 H04W76/50 H04W76/14 H04W76/40 H04W56/0035 H04W52/04 H04W72/005

US: 1/1 340/435 340/436 340/902 340/903 340/905 340/905 340/905 370/312 370/337 370/345 370/347 370/445 380/255 455/450 455/500 701/300 701/301 701/302 701/408 701/410 701/423 701/45 701/517 701/518 701/520 701/522 701/533 703/22

PatBase - US2013278440_AA

Weather and Road Condition Sub-risk Value Table

Sub-risk Value	Weather and Road Condition
5	Extremely hazardous driving condition; such as dense fog or icy road
4	Very poor visibility; or slippery road surface
3	Poor visibility or safety problems with road surface
2	Noticeably poor weather or road conditions
1	Slight compromise of ideal visibility or road surface
0	Clear, excellent visibility and road surface

Family:

Publication number	Publication date	Application number	Application date
US2013278440 AA	20131024	US20120633657	20121002
US2013278441 AA	20131024	US20120556123	20120723
US2013278442 AA	20131024	US20120559452	20120726
US2013278443 AA	20131024	US20120559536	20120726
US2013279392 AA	20131024	US20130852153	20130328
US2013279393 AA	20131024	US20130852200	20130328
US2013279491 AA	20131024	US20130852176	20130328
US2013279695 AA	20131024	US20120559525	20120726
US2013281140 AA	20131024	US20120557805	20120725
US2013281141 AA	20131024	US20120559508	20120726
US2013282267 AA	20131024	US20120559519	20120726
US2013282271 AA	20131024	US20120559542	20120726
US2013282277 AA	20131024	US20120559493	20120726
US2013282357 AA	20131024	US20120633561	20121002
US2013293394 AA	20131107	US20130936326	20130708
US2015077270 AA	20150319	US20130395770	20130423
US2015081201 AA	20150319	US20130395760	20130424
US2015131637 AA	20150514	US20130395753	20130423
US2015146605 AA	20150528	US20130395764	20130424
US2017243485 AA	20170824	US20170584757	20170502
US8520695 BA	20130827	US20120557711	20120725
US8860564 BB	20141014	US20120559452	20120726
US8884782 BB	20141111	US20120559536	20120726
US8922391 BB	20141230	US20120633657	20121002
US8935094 BB	20150113	US20120559493	20120726
US8995662 BB	20150331	US20120559525	20120726
US9008958 BB	20150414	US20120559519	20120726
US9031089 BB	20150512	US20130936326	20130708
US9105189 BB	20150811	US20120559542	20120726
US9129532 BB	20150908	US20130852176	20130328
US9253753 BB	20160202	US20130852153	20130328
US9300423 BB	20160329	US20130852200	20130328
US9305462 BB	20160405	US20130395770	20130423
US9355561 BB	20160531	US20130395764	20130424
US9449515 BB	20160920	US20130395760	20130424
US9552727 BB	20170124	US20130395753	20130423
US10231187 BA	20190312	US20160011826	20160201
US10292136 BB	20190514	US20170584757	20170502
WO13163203 A1	20131031	WO2013US37824	20130423
WO13163218 A1	20131031	WO2013US37847	20130423

WO13163222 A1	20131031	WO2013US37853	20130423
WO13163265 A1	20131031	WO2013US37925	20130424
WO13163310 A1	20131031	WO2013US38014	20130424

Priority:

US20120637588P	20120424	US20120556123	20120723	US20120557711	20120725
US20120557805	20120725	US20120559452	20120726	US20120559508	20120726
US20120559493	20120726	US20120559536	20120726	US20120559525	20120726
US20120559519	20120726	US20120559542	20120726	US20120633657	20121002
US20120633561	20121002	US20130852153	20130328	US20130852200	20130328
US20130852176	20130328	US20130395753	20130423	WO2013US37853	20130423
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US20130395760	20130424	WO2013US38014	20130424	US20130395764	20130424
US20130936326	20130708	US20160011826	20160201	US20170584757	20170502

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Assignee(s): ZETTA RESEARCH AND DEVELOPMENT FORC SERIES LLC ; ZETTA RESEARCH AND DEVELOPMENT LLC FORC SERIES ; ZETTA RESEARCH AND DEVELOPMENT LLC FORC SERIES ; ZETTA RESEARCH AND DEVELOPMENT LLC FORC SERIES ; ZETTA RESEARCH AND DEVELOPMENT LLC ; ZETTA RESEARCH AND DEVELOPMENT LLC FORC SERI ; ZETTA RESEARCH AND DEVELOPMENT FORC SERIES

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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

75) Family number: 41825965 (GB2458680A)

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Title: EXTERNAL INFLATABLE PROTECTION APPARATUS FOR A VEHICLE

Abstract: A protection apparatus 10, for a vehicle 11 to which it is secured, comprises a control device 12 that is operatively connected to one or more inflation pumps 17, 18 that are operable under control of the control device to inflate and deflate between a deflated condition and an inflated condition one or more inflatable buffers 21 (see also figures 3a and 3b). The buffers are secured adjacent the exterior of the vehicle such that in its deflated condition the or each buffer lies retracted relative to a part (23, figure 5) of the vehicle and in its inflated condition protrudes on the said exterior so as to protect the vehicle against impact damage, such as damage potentially occurring during slow speed parking manoeuvres. The inflatable buffers may be covered, when deflated, by hinged (figure 5) or detachable (figure 6) covers which close the aperture in which the buffer is housed, and they may be located within a vehicle body part or bumper. The control device may be linked to existing vehicle features such as parking distance sensors, a vehicle stability system, or an antilock braking system.

Classifications:

International (IPC 8-9): B60R19/20

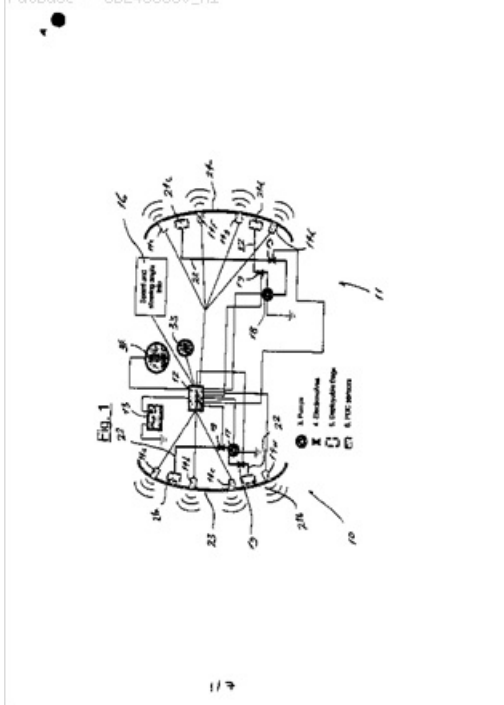
B60R21/0134 (Advanced/Invention);

B60R21/0134 (Advanced/Non-invention)

CPC: B60R19/205 B60R21/0134

European: B60R19/20C L60R21/0134

PatBase - GB2458680_A1



Family:

Publication number	Publication date	Application number	Application date
GB200805581 A0	20080430	GB20080005581	20080327
GB2458680 A1	20090930	GB20080005581	20080327
GB2458680 B2	20120620	GB20080005581	20080327

Priority:

GB20080005581 20080327

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Inventor(s):	MARIO CESARI