

1) Family number: 51229050 (US2014016177A)

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Title: ENVIRONMENTALLY RESPONSIVE OPTICAL MICROSTRUCTURED HYBRID ACTUATOR ASSEMBLIES AND APPLICATIONS THEREOF

Abstract: Microstructured hybrid actuator assemblies in which microactuators carrying designed surface properties to be revealed upon actuation are embedded in a layer of responsive materials. The microactuators in a microactuator array reversibly change their configuration in response to a change in the environment without requiring an external power source to switch their optical properties.

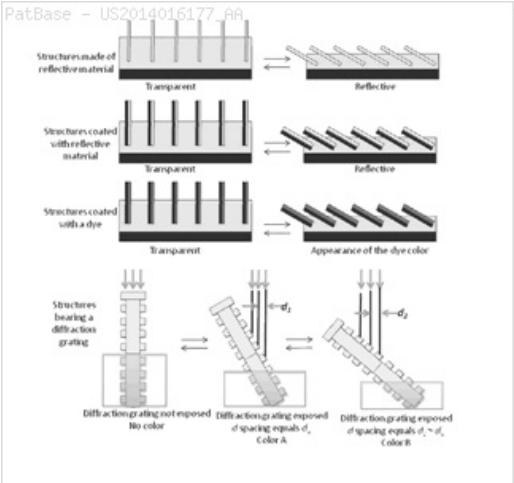
Classifications:

International (IPC 8-9): B29D11/00 B81B3/00 C12M1/12 C12M1/42 G02B26/00 G02B26/08 (Advanced/Invention)

CPC: B29D11/0074 G02B26/0866 Y10T156/109 G02B26/0833 B81B3/0032 B81B2201/038 B81B2207/053 G02B26/0808 G02B26/00 C12M35/04 C12M25/02

European: G02B26/08M4T

US: 1/1 156/298 359/290 359/291 435/289.1 435/375



Family:

Publication number	Publication date	Application number	Application date
US2014016177 AA	20140116	US20110990385	20111129
US2015093823 AA	20150402	US20130094152	20131202
US2016209642 AA	20160721	US20150974734	20151218
US9229218 BB	20160105	US20110990385	20111129
WO12075033 A2	20120607	WO2011US62437	20111129
WO12075033 A3	20121115	WO2011US62437	20111129

Priority:

US20100417665P 20101129 US20110990385 20111129 WO2011US62437 20111129
US20130990385 20131002 US20130094152 20131202 US20150974734 20151218

Probable Assignee: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Assignee(s): (std): AIZENBERG JOANNA ; AIZENBERG MICHAEL ; HARVARD COLLEGE ; KIM PHILSEOK

Assignee(s): PRESIDENT AND FELLOWS OF HARVARD COLLEGE ; ENERGY UNITED STATES DEPARTMENT OF

Inventor(s): (std): AIZENBERG JOANNA ; AIZENBERG MICHAEL ; KIM PHILSEOK ; SHIRMAN TANYA ; SUTTON AMY ALEXANDRA ; ZARZAR LAUREN

Agent(s): WILMER CUTLER PICKERING HALE AND DORR LLP; SCOZZAFAVA MARY ROSE 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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 68079151 (WO18001670A1)

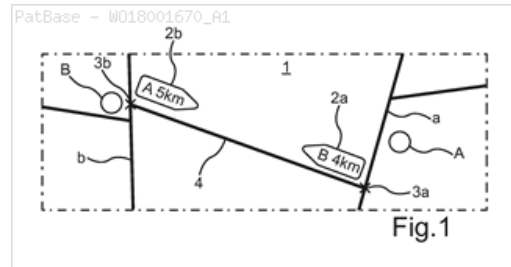
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Title: UPDATING AN ELECTRONIC MAP

Abstract: The invention relates to a method for updating an electronic map (1), involving detecting at least one first object (2a, 2b, 2c, 2d) by means of a sensor device of a motor vehicle (6) and associating a position (3a, 3b, 3c, 3d) of the motor vehicle (6), as detected by means of a position detection device of the motor vehicle (6), with the detected first object (2a, 2b, 2c, 2d), involving generating a first object data record, which represents the detected first object (2a, 2b, 2c, 2d) and the position (3a, 3b, 3c, 3d) associated with the first object (2a, 2b, 2c, 2d), by means of an evaluation device of the motor vehicle (6), involving deriving a second object data record, which represents a vehicle-external second object (4, 4a, 4b, 4c, 4d) different from the detected first object (2a, 2b, 2c, 2d), from the first object data record and involving updating the electronic map (1) by adding map data corresponding to the second object data record to the map (1) or by removing map data conflicting with the second object data record from the map (1) by means of a computation device in order to improve the updating of the electronic map (1).

Classifications:

International (IPC 8-9): G01C21/32 G01C21/36 G01C7/02 G06K9/00
G08G1/0962 (Advanced/Invention)
CPC: G01C21/32 G01C21/3602 G08G1/0112 G08G1/0129 G08G1/0141
G08G1/09623 G08G1/09626

**Family:**

Publication number	Publication date	Application number	Application date
CN109983303 A	20190705	CN201780040879	20170530
DE102016008175 A1	20180104	DE201610008175	20160701
EP3436782 A1	20190206	EP20170726936	20170530
WO18001670 A1	20180104	WO2017EP63051	20170530

Priority:

DE201610008175 20160701 WO2017EP63051 20170530

Probable Assignee: AUDI AG

Assignee(s): (std): AUDI AG

Inventor(s): (std): KUBERTSCHAK TIM

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 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

3) Family number: 74454198 (US2019154802A)

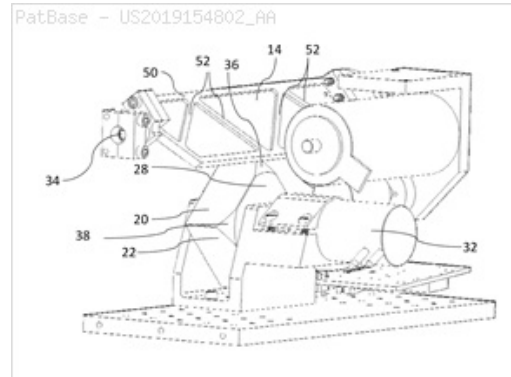
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Title: CONCURRENT SCAN OF MULTIPLE PIXELS IN A LIDAR SYSTEM EQUIPPED WITH A POLYGON MIRROR

Abstract: A lidar system includes one or more light sources configured to generate a first and second beams of light, a scanner configured to synchronously scan a field of regard of the lidar system using the two beams, and a receiver configured to detect light of the two beams scattered by one or more remote targets. The scanner includes a rotatable polygon mirror having a block having a first wall, a second wall, and reflective surfaces extending between the first and second walls, the reflective surfaces being angularly offset from one another along a periphery of the block; a polygon mirror axle extending into the block, about which the block rotates; optical elements configured to direct the first and second beams of light respectively to two adjacent reflective surfaces of the rotatable polygon mirror; and a second mirror pivotable along an axis orthogonal to the polygon mirror axle.

Classifications:

International (IPC 8-9): G01C3/08 G01D5/34 G01S17/08 G01S17/42 G01S17/89 G01S17/93 G01S7/48 G01S7/481 G01S7/497 G02B26/10 G02B26/12 G02B27/09 G02B27/10 G02B27/30 G02B5/09 G02B7/182 G05D1/00 G05D1/02 H01L25/16 H01L27/146 (Advanced/Invention); G01S17/87 G01S17/93 G02B5/08 G02B5/18 G02B5/22 (Advanced/Non-invention)
CPC: G01D5/34 G01S7/497 G05D1/0061 G05D1/0231 G05D2201/0213 G01S7/4813 G01S7/4817 G01S17/42 G01S17/87 G02B26/101 G02B26/105 G02B26/123 G02B26/125 H01L27/14647 H01L27/14694 G01S17/08 G01S17/89 G02B5/0841 G02B5/09 G02B5/1857 G02B5/22 G02B7/1821 G02B27/0955 G02B27/0977 G02B27/1086 G02B27/30 H01L25/167 H01L27/14643 G01S17/931
US: 1/1

**Family:**

Publication number	Publication date	Application number	Application date
US2019154802 AA	20190523	US20180965288	20180427
US2019154803 AA	20190523	US20180046584	20180726
US2019154804 AA	20190523	US20180107521	20180821
US2019154816 AA	20190523	US20180958749	20180420
US2019154829 AA	20190523	US20180965471	20180427
US2019154836 AA	20190523	US20180965197	20180427
US2019154889 AA	20190523	US20180965519	20180427
US10310058 BA	20190604	US20180965288	20180427
US10324185 BB	20190618	US20180965471	20180427
US10451716 BB	20191022	US20180958749	20180420
US10502831 BB	20191210	US20180046584	20180726

Priority:

US20170590235P 20171122 US20180653404P 20180405 US20180958749 20180420
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US20180965519 20180427 US20180046584 20180726 US20180107521 20180821

Probable Assignee: LUMINAR TECHNOLOGIES INC

Assignee(s): (std): LUMINAR TECH INC

Assignee(s): LUMINAR TECHNOLOGIES INC

Inventor(s): (std): CAMPBELL SCOTT R ; EICHENHOLZ JASON M ; WEED MATTHEW D ; MARTIN LANE A ; HUGHES JOHN ; VENTOLA NICHOLAS ; HUGHES SEAN P ; MCWHIRTER JOHN E ; RUSSELL AUSTIN K ; HUGHES JOHN G

4) Family number: 65128374 (US2017067747A)

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Title: AUTOMATIC ALERT SENT TO USER BASED ON HOST LOCATION INFORMATION

Abstract: Systems and methods of coordinating the travel to a common destination by a destination coordination module. The destination coordination module can receive locations for one or more people and generate directions to the common location for each person. The destination coordination module can receive updated position information for each person and determine if a person is travelling to an incorrect destination. After determining a person is travelling to an incorrect destination, the destination coordination module can send an alert and updated directions to the common destination.

Classifications:

International (IPC 8-9): G01C21/34 G01C21/36 (Advanced/Invention)

CPC: B60H1/00742 B60Q1/52 B60R25/1004 B60K2370/11 B60K2370/146

B60K2370/15 B60K2370/193 B60K2370/52 B60R25/00 G01C21/26

G06F3/017 G06F3/0488 G06F21/31 G06F21/32 G06K9/00355

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G06Q30/00 G06Q30/012 G06Q30/0265 G06Q30/0266 G06Q30/0633

G06Q30/0639 G06Q30/0641 G06Q30/0645 G06Q50/30 G08B13/19647

G08B21/06 G08B25/016 G08B29/188 G08G1/096725 G08G1/096741

G08G1/096775 G06F9/451 G06F16/183 G06F16/24575 G06F16/25

G06F16/252 G06F16/583 G06F16/951 G06F21/00 G06K9/00255

G06K9/00268 H04L67/10 H04N7/181 H04N21/41422 H04W4/021

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H04W12/06 H04W12/08 H04L67/12 H04W84/005 H05K999/99

A61B5/0077 A61B5/4809 A61B5/6808 A61B5/7405 A61B5/742 A61B7/04

A61B2503/04 B60C1/00 B60K35/00 B60N2/0244 B60Q9/00 B60R11/04

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G01C21/3667 G01C21/3691 G01C21/3697 G01S19/42 G02B27/0093 G05D1/0016 G05D1/021 G05D1/0276 G05D23/1917

G06F3/013 G06F3/0481 G06F3/0482 G06F3/04842 G06F3/04886 G06F3/0622 G06F3/0637 G06F3/0673 G06F2203/04803

G06K9/00221 G06K9/00288 G06K9/00335 G06K9/00838 G07C5/02 G08B21/0205 G08B21/18 G08G1/01 G08G1/07 G08G1/0968

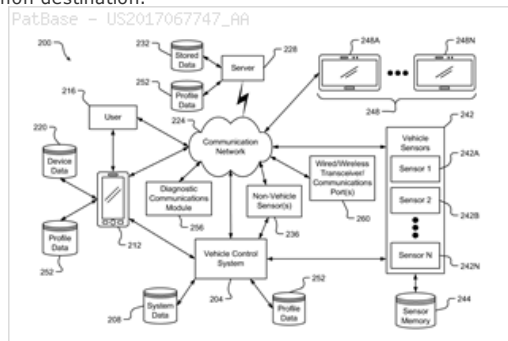
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H04L63/0428 H04L63/102 H04L67/26 H04L67/306 H04L67/34 H04N21/2225 H04N21/2265 H04N21/2393 H04N21/25816

H04N21/43615 H04N21/43637 H04N21/454 H04N21/6408 H04N21/64322 H04W4/30 H04W4/40 H04W4/48 H04W36/0005

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US: 1/1 701/417



Family:

Publication number	Publication date	Application number	Application date
US2017067747 AA	20170309	US20160269079	20160919

Priority:

US20120420236	20120314	US20120420240	20120314	US20120462593	20120502
US20120462596	20120502	US20120678673	20121116	US20120678691	20121116
US20120678699	20121116	US20120678710	20121116	US20120678722	20121116
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US20120678753	20121116	US20120678762	20121116	US20120679459	20121116
US20120679234	20121116	US20120679412	20121116	US20120679441	20121116
US20120679476	20121116	US20120679306	20121116	US20120679369	20121116
US20120679443	20121116	US20120679292	20121116	US20120679400	20121116
US20120678773	20121116	US20120679204	20121116	US20120679350	20121116
US20120679358	20121116	US20120679363	20121116	US20120679368	20121116
US20120679857	20121116	US20120679878	20121116	US20120679875	20121116
US20120679676	20121116	US20120679864	20121116	US20120679815	20121116
US20120679680	20121116	US20120679887	20121116	US20120679842	20121116
US20130840240	20130315	US20130811981P	20130415	US20130865954P	20130814
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US20140924572P	20140107	US20140926749P	20140113	US20140253144	20140415
US20140253060	20140415	US20140252934	20140415	US20140253135	20140415
US20140253022	20140415	US20150863257	20150923	US20160269079	20160919

Probable Assignee:

AUTOCONNECT HOLDINGS LLC

Assignee(s): (std):

AUTOCONNECT HOLDINGS LLC

Assignee(s):

FLEXTRONICS AP LLC

Inventor(s): (std):

RICCI CHRISTOPHER P

5) Family number: 52151423 (US2014045953A)

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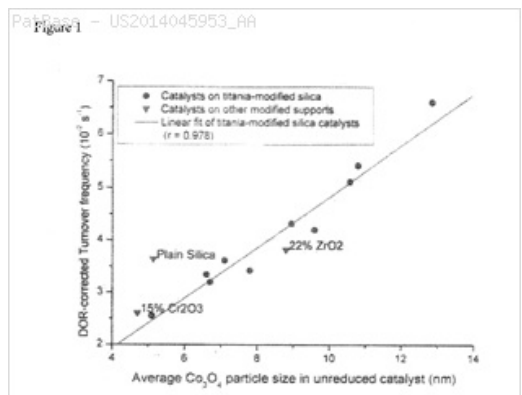
Title: TREATING OF CATALYST SUPPORT

Abstract: A method for the preparation of a modified catalyst support comprising: (a) treating a catalyst support material with an aqueous solution or dispersion comprising one or more zirconium metal sources, chromium metal sources, manganese metal sources and aluminium metal sources, and one or more polar organic compounds; and (b) drying the treated support, and (c) optionally calcining the treated support. Also provided are catalyst support materials obtainable by the methods, and catalysts prepared from such supports.

Classifications:

International (IPC 8-9): B01J B01J19/00 B01J21/02 B01J21/04 B01J21/06

B01J21/08 B01J21/10 B01J21/12 B01J23/26 B01J23/34 B01J23/72
B01J23/75 B01J23/755 B01J23/89 B01J35/00 B01J35/10 B01J37/02
B01J37/08 B01J37/14 B01J37/16 B01J37/18 B01J8/00 C07C1/04 C10G
C10G2/00 G01S5/02 G01S5/04 H04W48/08 (Advanced/Invention);
B01J19/00 B01J35/00 B01J8/00 C10G2/00 (Core/Invention)
CPC: B01J21/04 B01J21/10 B01J2231/641 B01J21/12 B01J35/00
B01J35/10 B01J37/02 C10G2/00 B01J21/06 B01J23/75 B01J21/02
B01J21/063 B01J23/72 B01J23/755 C10G2300/1022 B01J8/00 B01J21/08
B01J23/26 B01J23/34 B01J37/088 B01J37/16 B01J2208/00796
B01J2219/00781 C07C1/043 C10G2/333 B01J19/0093 B01J23/8913
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H04W48/08
US: 1/1 422/211 502/241 502/242 502/257 502/300 502/325 502/439
518/712 518/714 518/715



Family:

Publication number	Publication date	Application number	Application date
AP201508250 A0	20150228	AP20150008250	20130911
AP3860 A	20161031	AP20150008250	20130911
AU2013299380 AA	20150402	AU20130299380	20130911
AU2013299380 BB	20151022	AU20130299380	20130911
AU2015243014 AA	20151105	AU20150243014	20151014
AU2015243014 BB	20160721	AU20150243014	20151014
CA2880199 AA	20150126	CA20132880199	20130911
CA2880199 C	20160531	CA20132880199	20130911
CN105451873 A	20160330	CN201380042156	20130911
CN105451873 B	20180427	CN201380042156	20130911
CN108753342 A	20181106	CN201810323334	20130911
EA201590158 A1	20150831	EA20150090158	20130911
EP2882528 A1	20150617	EP20130770559	20130911
GB201214122 A0	20120919	GB20120014122	20120807
GB201503853 A0	20150422	GB20150003853	20130807
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GB2525486 B2	20190410	GB20150003853	20130807
KR101607847 B1	20160331	KR20157003326	20130911
KR101804283 B1	20171204	KR20167007846	20130911
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WO14023955 A3	20140403	WO2013GB52103	20130807
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ZA201500293 A	20160330	ZA20150000293	20130911

Priority:

GB20120014122	20120807	US20120716772P	20121022	US20130802921	20130314
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Probable Assignee: OXFORD CATALYSTS LTD

Assignee(s): (std): BINJ LABORATORIES INC ; OXFORD CATALYSTS LTD ; VELOCYS TECHNOLOGIES LTD ; VELOCYS INC ; VELOCYS TECHNOLOGIES LTD ; VELOCYS TECH LTD

Assignee(s): RUGMINI SREEKALA ; RICHARD LAURA ; DALY FRANCIS ; LEVINNESS STEPHEN CLAUDE ; OXFORD CATALYSTS LIMITED

Inventor(s): (std): DALY FRANK ; RICHARD LAURA ; BLAKE WILLIAM T ; GIORDANO CARL A ; NOONAN JAMES P ; NOONAN JOSEPH S ; STEPHEN CLAUDE LEVINNESS ; SREEKALA RUGMINI ; FRANCIS DALY ; LAURA RICHARD ; RICHARD LAURA AMANDA ; RUGMINI SREEKALA ; DALY FRANCIS ; LEVINNESS STEPHEN CLAUDE

Agent(s): CALLINANS ; FISHER ADAMS KELLY CALLINANS ; SPRUSON AND FERGUSON ; SMART AND BIGGAR ; ZIMMERMANN AND PARTNER PATENTANWALTE MBB ; RENNER OTTO BOISSELLE AND SKLAR LLP ; HOWARD PAUL NICHOLAS ET AL ; DUCHEZ NEIL A

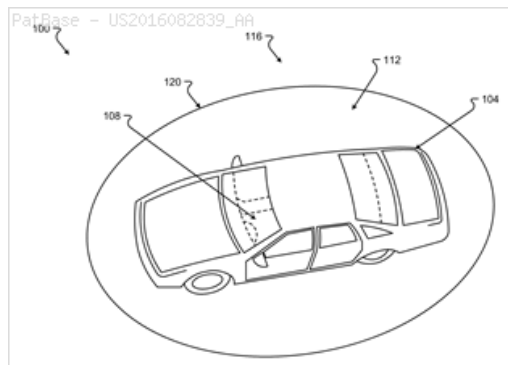
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Title: CONFIGURABLE DASH DISPLAY BASED ON DETECTED LOCATION AND PREFERENCES

Abstract: A vehicle control system can determine a location of the vehicle and evaluate laws and rules of the location to determine if changes to an instrument display are required. The vehicle control system can automatically configure the instrument display for the location. The vehicle control system can image and translate traffic signs in the location. The vehicle control system can also determine if the location is associated with an interruption of a communication network, identify an alternate communication network, and automatically transfer to the alternate communication network. An alert may be generated by the vehicle control system that includes information related to traffic rules, languages, and communication networks of the location that are different than a previous location of the vehicle.

Classifications:**International (IPC 8-9):** B60K35/00 (Advanced/Invention)

CPC: B60H1/00742 B60Q1/52 B60R25/1004 B60K2370/11 B60K2370/146 B60K2370/15 B60K2370/193 B60K2370/52 B60R25/00 G01C21/26 G06F3/017 G06F3/0488 G06F21/31 G06F21/32 G06K9/00355 G06K9/00832 G06K2009/00939 G06Q10/00 G06Q10/02 G06Q10/20 G06Q30/00 G06Q30/012 G06Q30/0265 G06Q30/0266 G06Q30/0633 G06Q30/0639 G06Q30/0641 G06Q30/0645 G06Q50/30 G08B13/19647 G08B21/06 G08B25/016 G08B29/188 G08G1/096725 G08G1/096741 G08G1/096775 G06F9/451 G06F16/183 G06F16/24575 G06F16/25 G06F16/252 G06F16/583 G06F16/951 G06F21/00 G06K9/00255 G06K9/00268 H04L67/10 H04N7/181 H04N21/41422 H04W4/021 H04W4/12 H04W4/21 H04W4/60 H04W4/70 H04W4/80 H04W12/00508 H04W12/06 H04W12/08 H04L67/12 H04W84/005 H05K999/99 A61B5/0077 A61B5/4809 A61B5/6808 A61B5/7405 A61B5/742 A61B7/04 A61B2503/04 B60C1/00 B60K35/00 B60N2/0244 B60Q9/00 B60R11/04 B60R25/01 B60R25/102 B60R25/20 B60R25/2081 B60R25/25 B60R25/257 B60W50/085 B60W50/10 B60W50/14 B60W2050/0067 B60W2050/0085 G01C21/3484 G01C21/362 G01C21/365 G01C21/3667 G01C21/3691 G01C21/3697 G01S19/42 G02B27/0093 G05D1/0016 G05D1/021 G05D1/0276 G05D23/1917 G06F3/013 G06F3/0481 G06F3/0482 G06F3/04842 G06F3/04886 G06F3/0622 G06F3/0637 G06F3/0673 G06F2203/04803 G06K9/00221 G06K9/00288 G06K9/00335 G06K9/00838 G07C5/02 G08B21/0205 G08B21/18 G08G1/01 G08G1/07 G08G1/0968 G08G1/096805 G08G1/096811 G08G1/096844 G08G1/164 G08G1/207 G09G5/37 G09G2380/10 H04L51/02 H04L63/0236 H04L63/0428 H04L63/102 H04L67/26 H04L67/306 H04L67/34 H04N21/2225 H04N21/2265 H04N21/2393 H04N21/25816 H04N21/43615 H04N21/43637 H04N21/454 H04N21/6408 H04N21/64322 H04W4/30 H04W4/40 H04W4/48 H04W36/0005 H04W36/34 H04W48/04 H04W76/11 H04W76/19 H04W84/18 H05K999/00 H04W12/0808

US: 701/36**Family:**

Publication number	Publication date	Application number	Application date
US2016082839 AA	20160324	US20150863257	20150923

Priority:

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Probable Assignee: AUTOCONNECT HOLDINGS LLC**Assignee(s):** (std): AUTOCONNECT HOLDINGS LLC**Assignee(s):** FLEXTRONICS AP LLC**Inventor(s):** (std): RICCI CHRISTOPHER P**Title:** VEHICLE INTRUDER ALERT DETECTION AND INDICATION

Abstract: Methods and systems for a detecting an intruder near or within a vehicle are disclosed. Specifically, a method to detect and identify a person near or within a vehicle as an authorized or an unauthorized user is provided. In the event an unauthorized user is detected within a vehicle, the system may take a number of actions. In one embodiment, the actions comprise providing notice to one or more authorized users of the vehicle, disabling the vehicle, notifying emergency personnel or police, and emitting a visual or audio alarm.

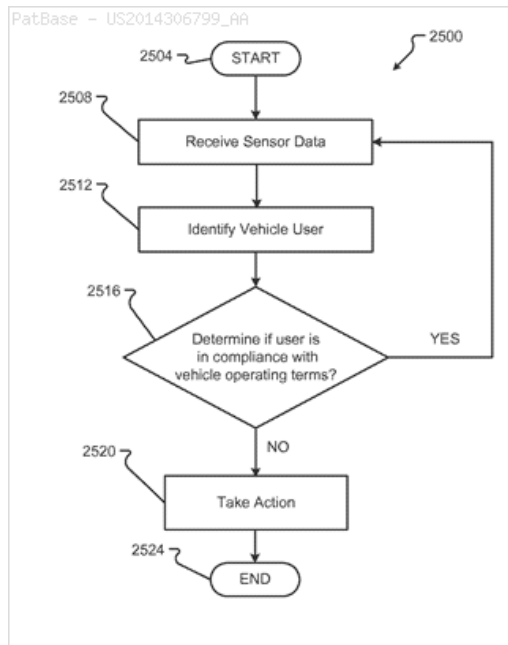
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H04W12/08 H04W4/20 H04W84/00 (Advanced/Non-invention)

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701/45 701/48 701/49 701/537 701/540 701/70 702/19 704/3 705/13 705/14.62 705/26.8 705/302 705/5 707/736 707/771
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Publication number	Publication date	Application number	Application date
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CN104321620 A	20150128	CN201480001273	20140415
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Probable Assignee: FLEXTRONICS AP LLC

Assignee(s): (std): AUTOCONNECT HOLDINGS LLC ; FLEXTRONICS AP LLC ; RICCI CHRISTOPHER P

Inventor(s): (std): LINDON BRENT R ; CHINCISAN OCTAVIAN ; YUSUPOV ALISHER I ; FONG GARY ; YUSUPOV ALISHER ; LENNOX GENTLE THAINE ; WILSON TADD F ; RICCI CHRISTOPHER P

Agent(s): RUPPRECHT KAY; SHERIDAN ROSS PC; MARSH FISCHMANN AND BREYFOGLE LLP; ROBERT G; LENNOX GENTLE THAINE; BUCKLEY RAQUEL F; REINHARDT DEAN N; VICK JASON H; ZELENKA RICHARD E; BUCKLEY TIMOTHY E; WILSON TADD F; SWARTZ DOUGLAS W

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

Abstract: Method for transferring information between a vehicle and a transmitter in which a unique pseudorandom noise signal is transmitted by the transmitter in a carrier-less fashion composed of frequencies within a pre-selected band. Information is encoded in the noise signal relating to an identification of the transmitter and a position of the transmitter and the vehicle is provided with a device for extracting the information from the noise signal. The code to use for encoding the noise signal may be selected based on the position of the transmitter so that analysis of the code, or a portion thereof, provides an indication of the position of the transmitter. Information about accidents, weather conditions, road conditions, map data and traffic control devices and about errors in a GPS signal can also be encoded in the noise signals. The transmitter may be at a fixed location or in another vehicle to thereby enable vehicle-to-vehicle communications for the purposes of collision avoidance, intelligent highway applications and the like.

Classifications:

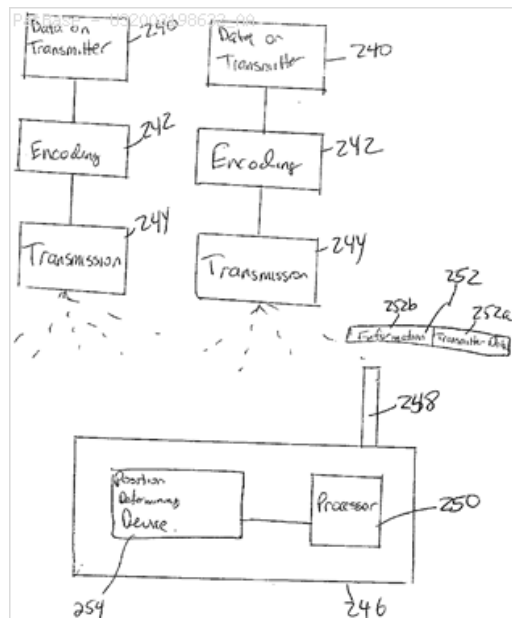
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International (IPC 1-7): B60Q1/00 B60R11/00 B60R11/04 G01C11/02 G01C21/26 G01C21/28 G01C21/30 G01C23/00 G01C7/04 G01S3/28 G01S5/12 G01S5/14 G05D1/02 G06F165/00 G06F17/00 G06F19/00 G06K9/62 G07C5/08 G08G1/0969 G08G1/16 G09B29/00

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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s): (std): AMERICAN VEHICULAR SCIENCES LLC ; AUTOMOTIVE TECH INT ; BREED DAVID S ; DUVALL WILBUR E ; INTELLIGENT TECHNOLOGIES INT L ; INTELLIGENT TECH INT INC ; JOHNSON WENDELL C ; KONOVALOV VLADYMYR MICHAILOVIC

Assignee(s): INTELLIGENT TECHNOLOGIES INT INC ; KONOVALOV VLADYMYR MICHAILOVICH ; INTELLIGENT TECHNOLOGIES INT ; LUKIN KOSTYANTYN ALEXANDROVICH ; INTELLIGENT TECHNOLOGIES INTERNATIONAL INC ; INTELLIGENT TECHNOLOGIES INTERNATIONAL INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; INTELLIGENT TECHNOLOGIES INT L INC ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC

Inventor(s): (std): KONOVALOV VLADYMYR M ; LUKIN KOSTYANTYN A ; KONOVALOV VLADYMYR MICHAILOVIC ; LUKIN KOSTYANTYN ALEXANDROVICH ; BREED DAVID S ; JOHNSON WENDELL C ; BREED DAVID SCRANTON ; DUVALL WILBUR E ; SEITZ WILLIAM E ; CASTELLI VITTORIO

Inventor(s): DAVID SCRANTON BREED ; WENDELL C JOHNSON ; VITTORIO CASTELLI ; WILLIAM E SEITZ ; WILBUR E DUVALL ; KONOVALOV VLADYMYR MICHAILOVICH ; DAVID S BREED ; BREED DAVID ; JOHNSON WENDELL ; DUVALL WILBUR ; LUKIN KOSTYANTYN ; KONOVALOV VLADYMYR

Agent(s): BRIAN ROFFE ESQ; BRIAN; ROFFE BRIAN; MCANDREWS HELD AND MALLOY LTD

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

9) Family number: 67076798 (US2017276085A)

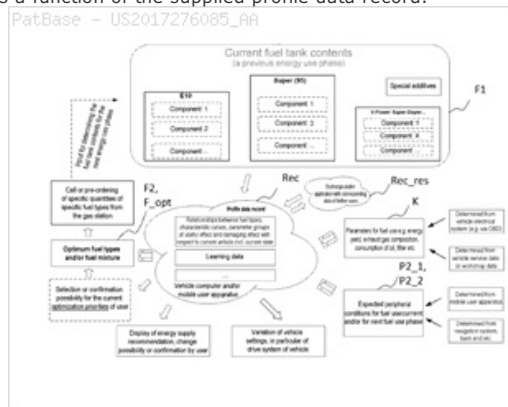
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Title: METHOD, DEVICE AND MOBILE USER APPARATUS FOR ADAPTING A FUEL SUPPLY OF AT LEAST ONE MOTOR VEHICLE

Abstract: A method and apparatus to determine values for at least one fuel use characteristic variable which represents a first fuel use process in a first vehicle, are provided. In addition, values are determined for at least one parameter which represents at least one peripheral condition of the fuel use in the first vehicle during the first fuel supply process. A mathematical relationship is determined between one or more supplied values of the at least one fuel use characteristic variable and the corresponding values of the at least one parameter. A profile data record including a data record and/or learning data is supplied on the basis of at least one determined mathematical relationship. At least one further fuel parameter of a fuel which is used by the first vehicle and/or by a second vehicle during a second fuel use process is adapted as a function of the supplied profile data record.

Classifications:

International (IPC 8-9): F02D19/08 F02D41/00 F02D41/26 F02D41/30 H04B1/3822 H04M1/725 (Advanced/Invention)
CPC: F02D19/12 F02D41/0025 F02D41/021 F02D41/2451 F02D41/2487 F02D41/266 F02D2200/0611 F02D2200/701 G07C5/00 Y02T10/36 F02D41/26 F02D41/3005 H04B1/3822 H04M1/72527
US: 1/1 701/103



Family:

Publication number	Publication date	Application number	Application date
DE102016204759 A1	20170928	DE201610204759	20160322
US2017276085 AA	20170928	US20170462990	20170320

Priority:

DE201610204759 20160322

Probable Assignee: BMW AG

Assignee(s): (std): BAYERISCHE MOTOREN WERKE AG ; BMW AG

Inventor(s): (std): AUGST ALEXANDER

10) Family number: 46404805 (US2011273901A)

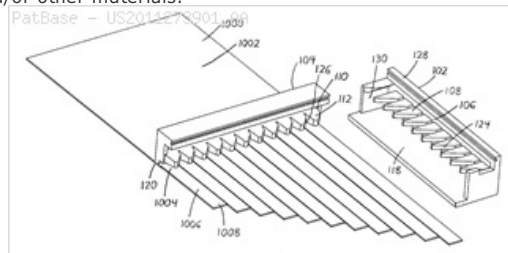
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Title: ILLUMINATION VIA FLEXIBLE THIN FILMS

Abstract: A film sheet having a series of strips extending from an edge may have the film strips gathered and folded into a stacked array wherein the strips are in parallel abutment. The collected ends of the stacked strips are then suitable for receiving light for transmission into (and emission from) the body of the film sheet. A pair of frame members, when urged toward each other about the strips, may automatically collect and fold the strips into a parallel spaced array. This array may then be gathered by hand, or by a cover member translating adjacent the frame members, to generate the stacked array of parallel abutting strips. The resulting illumination device is particularly useful for illumination of display panels such as liquid crystal displays, organic light-emitting diode displays, or simply signs formed of paper, plastic, and/or other materials.

Classifications:

International (IPC 8-9): A41F1/00 B23P17/04 F21S2/00 F21V17/10 F21V7/04 F21V8/00 G02B6/00 G02B6/06 G02B6/10 G02B6/30 G02F1/13357 (Advanced/Invention); F21Y101/02 G09F9/33 (Advanced/Non-invention); F21V8/00 G02B6/06 (Core/Invention)
CPC: G02B6/0018 G02B6/003 G02B6/0031 G02B6/0036 G02B6/0068 Y10T29/49716 G02B6/0011 G02B6/0016 G02B6/006 G02B6/0075 G02B6/0076 G02B6/0078 G02B6/0085 G02B6/009 G09F9/33 G02B6/002 G02B6/0028 G02B6/0088
European: G02B6/00L6I4S G02B6/00L6U6G S02B6/00L6I8G
US: 1/1 29/401.1 362/191 362/284 362/368 362/554 362/556 362/581 362/581P 362/613 362/621 362/622
JP F-Term: 2H038 2H038/AA55 2H038/BA06 3K244 3K244/AA01 3K244/AA04 3K244/AA05 3K244/AA06 3K244/BA11 3K244/BA31 3K244/BA50 3K244/CA03 3K244/DA01 3K244/DA05 3K244/EA02 3K244/EA12 3K244/EA31 3K244/EA38 3K244/EB01 3K244/LA01



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20190240765	20190106				

Probable Assignee: FLEX LIGHTING II LLC

Assignee(s): (std): COLEMAN ZANE ; COLEMAN ZANE A ; FLEX LIGHTING II LLC ; FLEX LIGHTING LLC ; NICHOL ANTHONY JOHN ; PUCYLOWSKI SHAWN MICHAEL ; NICHOL ANTHONY

Inventor(s): (std): NICHOL ANTHONY JOHN ; PUCYLOWSKI SHAWN MICHAEL ; JOHN NICHOL ANTHONY ; MICHAEL PUCYLOWSKI SHAWN ; COLEMAN ZANE A ; NICHOL JOHN ANTHONY ; PUCLOWSKI MICHAEL SHAWN ; NICHOL ANTHONY ; NICHOL ANTHONY J

Inventor(s): PUCYLOWSKI SHAWN ; JOHN ANTHONY NICHOL ; MICHAEL SHAWN PUCLOWSKI ; SHAWN MICHAEL PUCYLOWSKI ; ANTHONY JOHN NICHOL

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; SMART AND BIGGAR LLP; LAWRENCE JOHN; AKIYAMA ATSUSHI; SHIROTA YURIKO; QUARLES AND BRADY LLP; ZANE; COLEMAN ZANE; FIESCHKO CRAIG A 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

11) Family number: 43144817 (US2010214786A)

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Title: LIGHT COUPLING INTO ILLUMINATED FILMS

Abstract: A flexible translucent sheet is folded to have portions of its bounding edge closely situated in overlapping relationship, and these overlapping portions are illuminated by a light source. The illumination is transmitted through the interior of the sheet to any adjacent unfolded area of the sheet, which may bear emission areas which are treated so that the light emits from the sheet at these areas. Preferred versions of the invention have a series of legs cut into one edge of the sheet, and the legs are then bundled in stacked relationship, with a light source providing light input into the bundle.

Classifications:

International (IPC 8-9): A47F11/10 A61P19/06 B23P11/00 B23P19/04
B29C45/14 B29D11/00 B64C25/04 F21K9/232 F21K9/61 F21K9/65
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F21V21/14 F21V3/04 F21V7/00 F21V7/04 F21V7/22 F21V8/00 G01D11/28
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G02B6/122 G02B6/26 G02B6/30 G02B6/42 G02F1/00 G02F1/13357
G09F13/00 G09F13/04 G09F13/18 G09F9/00 G09F9/30 H01J9/24
H05B37/02 (Advanced/Invention);
B29C45/14 B29D11/00 F21K9/00 F21K9/232 F21K9/61 F21K9/65
F21V14/02 F21V8/00 F21Y101/00 F21Y101/02 F21Y103/00 F21Y105/00
G02B27/01 G02F1/1335 G09F13/18 (Advanced/Non-invention);
B29C45/14 B29D11/00 F21V3/00 F21V7/00 F21V8/00 (Core/Invention)

International (IPC 1-7): F21V7/04 G02B6/10

CPC: G02B6/0073 A61K31/52 G02B6/0011 A61K31/495 A61K31/519
Y10T29/49888 Y10T156/1051 Y10T29/49002 G02B6/0078 G02B6/0085
G02B27/017 G02B6/0013 G02B6/0058 Y10S362/812 F21K9/232 F21K9/61
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G02B6/005 G02B6/0065 G02B6/0068 G02B6/0076 G02B6/0088
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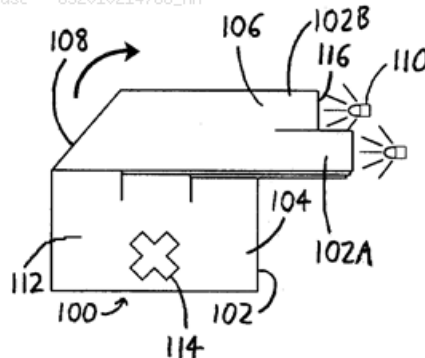
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US: 1/1 156/227 29/428 29/428S 29/460 29/460S 29/592.1 315/158 315/158P 315/312 315/312S 349/144 349/158 349/187
349/61 349/62 349/63 362/296.01 362/296.010P 362/311.01 362/311.02 362/311.03 362/311.030S 362/551 362/560 362/560P
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JP F-Term: 2H038 2H038/AA55 2H038/BA06 2H038/BA42 2H038/BA44 2H147 2H147/AA00 2H147/AA04 2H147/AB20
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JP F-Index: F21S2/00/436 F21Y101/02 F21Y115/10 G02B6/00/301 G02B6/00/326 G02B6/00/331 G02B6/12/D G02B6/12S
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G02B6/12/C G02B6/12/341 G02B6/12/351 G02B6/122/311 G02B6/124 G09F13/18/N F21S2/00/434 F21S2/00/438 F21S2/00/444
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PatBase - US2010214786_AA



Family:

Publication number	Publication date	Application number	Application date
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BR112012026325 A2	20190924	BR20121126325	20110415
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US20190588536	20190930				

Probable Assignee: FLEX LIGHTING II LLC

Assignee(s): (std): COLEMAN ZANE ; COLEMAN ZANE A ; NICHOL ANTHONY J ; FLEX LIGHTING II LLC ; NICHOL ANTHONY JOHN ; COLEMAN ZANE ARTHUR ; LYMAN SCOTT ; ELDER JENNA ; FLYNT AMY ; HOLLISTER ALAN ; ANTHONY J NICHOL ; BANTIA SHANTA ; BIOCRYST PHARM INC ; FLEX LIGHTING LL LLC ; PUCYLOWSKI SHAWN ; PUCYLOWSKI SHAWN MICHAEL ; WAUGH ANITA ; SHERIDAN WILLIAM P

Assignee(s): BIOCRYST PHARMACEUTICALS INC

Inventor(s): (std): NICHOL ANTHONY J ; NICHOL ANTHONY JOHN ; COLEMAN ZANE ARTHUR ; PUCYLOWSKI SHAWN MICHAEL ; WAUGH ANITA ; LYMAN SCOTT ; SHERIDAN WILLIAM P ; BANTIA SHANTA ; ELDER JENNA ; FLYNT AMY ; HOLLISTER ALAN ; ANTHONY J NICHOL ; ZANE COLEMAN ; PUCYLOWSKI SHAWN ; COLEMAN ZANE ; NICHOL ANTHONY ; COLEMAN ZANE A

Agent(s): BALDWIN'S INTELLECTUAL PROPERTY; OSLER HOSKIN AND HARCOURT LLP; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; EXELL JONATHAN MARK; SCHMID NILS TF; Lane Cathal Michael; TOMKINS AND CO; LANE CATHAL MICHAEL; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; INTELLECTUAL PROPERTY DEPT DEWITT ROSS AND STEVENS SC; SCHIFF HARDIN LLP; QUARLES AND BRADY LLP; ZANE; COLEMAN ZANE; FIESCHKO CRAIG A; KRISCHKE ERIC T; LOVE JANE M 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 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

12) Family number: 60549968 (US2016009169A)

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Title: ELECTRICALLY MOTORIZED WHEEL

Abstract: A system, method, and device for operations of an electrically motorized vehicle. The vehicle can utilize an electrically motorized wheel to convert a non-motorized wheeled vehicle to an electrically motorized wheeled vehicle. The electrically motorized wheeled vehicle includes a plurality of electrically motorized wheels, each of the plurality of electrically motorized wheels in communication with at least one other of the plurality of electrically motorized wheels to coordinate operation of the vehicle.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/04 A61B5/11 A61B5/22 A61G5/04 A63B21/005 A63B21/22 A63B22/06 A63B24/00 B60B1/00 B60B1/02 B60B1/04 B60B1/14 B60B27/00 B60B27/04 B60B30/00 B60B35/00 B60B35/12 B60B35/14 B60B35/16 B60C5/00 B60C9/00 B60K1/04 B60K7/00 B60L B60L11/00 B60L11/18 B60L15/02 B60L15/20 B60L3/00 B60L3/12 B60L50/20 B60L50/52 B60L50/60 B60L53/00 B60L58/10 B60L58/12 B60L58/21 B60L7/00 B60L7/12 B60L7/14 B60L7/24 B60L9/00 B60Q5/00 B60Q9/00 B60R B60R16/02 B60R16/04 B60R25/04 B60R25/10 B60R25/20 B60W50/08 B61L25/02 B62B3/00 B62B5/00 B62J99/00 B62M25/08 B62M6/45 B62M6/60 B62M6/80 B62M6/90 E05B49/00 E05B81/54 G01C21/00 G01C21/34 G01C21/36 G01S19/05 G05D1/00 G05D1/02 G06F8/65 G06F9/445 G06Q G06Q50/10 G06Q50/30 G07C5/00 G07C5/02 G07C5/08 G07C9/00 G08B21/18 G08G1/00 G08G1/01 G08G1/015 G08G1/052 G08G1/0962 G08G1/0967 G08G1/123 G08G1/127 G08G1/13 G08G1/16 H02J7/00 H02K11/00 H02K11/20 H02K11/33 H02K7/00 H02P29/00 H02P29/20 H02P3/06 H02P6/08 H04L29/08 H04M1/725 H04W4/00 H04W4/60 H04W4/80 (Advanced/Invention); A61B5/00 A61B5/024 A63B21/00 A63B21/005 A63B21/06 A63B22/20 A63B23/04 A63B24/00 A63B71/00 B60B27/00 B60K1/04 B60W50/00 B62B3/00 B62M6/80 E05B47/00 G01C21/36 G06F8/65 G08G1/16 H02P6/08 H04W4/02 H04W4/04 (Advanced/Non-invention)

PatBase - US2016009169_AA

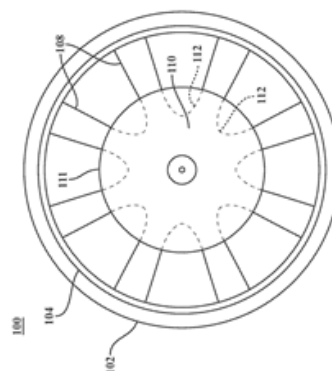


FIG. 1A

CPC: B60B2900/113 B60B2900/541 G01C21/3484 Y02T10/705 B60B1/04 H04W4/003 H04W4/008 B60B1/003 B60B1/0246 B60B1/0284 B60B1/041 B60L11/007 B60L11/1805 B60L11/1809 B60L11/1851 B60L11/1861 B60L11/1864 B60L11/1816 A61B5/024 A61B5/6894 A63B21/00181 A63B21/0053 A63B21/0618 A63B22/20 A63B23/047 A63B2024/0093 A63B2071/0018 A63B2220/12 A63B2220/14 A63B2220/18 A63B2220/34 A63B2220/51 A63B2220/54 A63B2220/56 A63B2220/58 A63B2220/72 A63B2225/20 A63B2225/50 B62B1/18 B62B3/007 G01C21/3461 G08B21/182 G01S19/05 H02K11/20 H02K11/33 B60B27/0015 B60B27/04 B60B2360/102 B60B2360/104 B60B2360/106 B60B2360/108 B60B2900/513 B60B2900/90 H02K7/006 G08G1/16 G08G1/202 H02P29/20 A63B21/0058 A63B21/22 A63B22/0605 A63B24/0062 A63B24/0084 A63B24/0087 B60C5/005 B60C9/00 B60L2200/44 B60R16/02 B60R25/04 B60R25/1003 B60R25/20 E05B49/006 E05B81/54 G01C21/36 G05D1/021 G05D1/0285 G05D1/0287 G05D1/0291 H02P3/06 B60L3/0038 G07C5/085 G07C2205/02 G08G1/015 G08G1/09626 G08G1/096716 G08G1/096758 G08G1/096775 G08G1/096791 G08G1/165 G08G1/166 Y02T10/644 B60B1/0276 B60B1/042 B60L58/14 B60L58/13 B60L58/26 A61G5/048 B60L3/0061 B60L3/12 B60L7/12 B60L15/20 B60L15/2036 B60L50/20 B60L50/52 B60L58/21 B60L2200/12 B60L2200/34 B60L2200/36 B60L2200/40 B60L2220/50 B60L2240/12 B60L2240/36 B60L2240/421 B60L2240/461 B60L2240/463 B60L2240/547 B60L2240/549 B60L2240/622 B60L2240/68 B60L2240/70 B60L2260/44 B60L53/00 B60L58/10 H04W4/60 H04W4/80 Y02P90/60 Y02T10/641 Y02T10/645 Y02T10/7005 Y02T10/7044 Y02T10/7061 Y02T10/7275 Y02T10/7291 Y02T90/16 Y02T90/162 A61B5/0002 A61B5/11 A61B5/6893 A61B5/7275 A61B5/7282 A61G5/04 B60K7/00 B60K7/0007 B60K2007/0092 B60L3/0046 B60L7/00 B60Q5/005 B60Q9/00 B60W50/085 B60W2050/0014 B60W2050/0089 B60Y2300/18 B60Y2300/1884 B61L25/02 B62B3/00 B62B5/004 B62M6/45 B62M6/80 B62M25/08 E05B2047/0088 G01C21/3632 G01C21/3664 G06F8/65 G07C5/006 G07C5/008 G07C5/02 G07C5/0808 G07C9/00309 G07C9/20 G07C2009/00769 G08G1/0129 G08G1/052 G08G1/123 G08G1/127 G08G1/13 G08G1/20 H02P6/08 H04L67/12 H04M1/7253 A61B5/222 A61G5/045 B60K1/04 B60K2001/045 B60K2007/0038 B60L53/14 B60L2240/642 B60L2240/662 B60L2240/667 B60L2250/10 B60L2250/12 B60L2250/16 B60Y2200/13 B60Y2200/84 H04W4/027 Y02T10/7072 A61B5/0205 A61B5/1118 Y02T10/72 A61B5/225 A61B2560/0204 A61B2560/0252 Y02T90/14 A61B2560/0257 A61G2203/32 B60B2320/10 B60L3/003 B60L15/025 B62M6/60 B62M6/90 Y02T10/643 Y02T90/161 B60B27/0047 H02J7/0042 B60L50/51 B60L2250/24 B60L2250/26 B62K2204/00 H04W4/00 H04W4/023 H04W4/70 B60Y2410/113 A61B5/04 G07C9/00007 B60L7/14 B60L7/24 B60L15/2009 B60L58/12 B60L58/25 B60L2200/24 B60L2220/44 B60L2220/46 B60L2240/423 B60L2240/425 B60L2240/545 B60L2270/40 G06Q50/10 G06Q50/30

US: 1/1 16/400 165/185 180/6.28 180/65.51 29/402.03 29/592 29/825 29/894.341 29/894.343 301/104 301/110.5 301/57 301/6.5 310/67R 340/435 340/5.61 340/990 340/993 455/420 482/5 70/237 70/263 701/117 701/2 701/22 701/29.2 701/31.4 701/32.3 701/33.4 701/538 709/201 717/168

JP F-Term: 3D015 3D027 3D029 3D115 3D126 3D235 3D235/AA01 3D235/AA22 3D235/AA23 3D235/BB20 3D235/BB24 3D235/BB45 3D235/CC42 3D235/GA13 3D235/HH61 5H125 5H125/AA18 5H125/AB03 5H125/AC12 5H125/BA00 5H125/CA01 5H125/CA04 5H125/CA08 5H125/EE41 5H125/EE49 5H125/EE52

JP F-Index: B60B1/04/B B60B1/14/B B60B27/00/B B60B27/00/D B60B35/14/Q B60K7/00 B60L15/20/Z B60R16/04/J B62J43/13 B62J99/00/K B62M6/45 B62M6/90

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: SUPERPEDESTRIAN INC

Assignee(s): (std): SUPERPEDESTRIAN INC

Assignee(s): STEVENS JON ; SIMARD JAMES ; ROY ROBERT PAUL ; ZIOLEK MICHAEL ; WEINSTEIN JEFFREY JAY ; BARBER ERIC ; BIDERMAN ASSAF ; CHAN TAI ; CAGNIE RUBEN ; HEINZMANN JOHN DAVID ; FONG LONG HIN

Inventor(s): (std): STEVENS JON ; SIMARD JAMES ; HEINZMANN JOHN DAVID ; BIDERMAN ASSAF ; CAGNIE RUBEN ; CHAN TAI ; BARBER ERIC ; ROY ROBERT PAUL ; WEINSTEIN JEFFREY JAY ; FONG LONG HIN ; ZIOLEK MICHAEL

Agent(s): BORDEN LADNER GERVAIS LLP; SUER STEVEN JOHANNES; GRAHAM WATT AND CO LLP; VIVIEN CHAN AND CO; YKI PATENT ATTORNEYS; YKI INTELLECTUAL PROPERTY ATTORNEYS; GTC LAW GROUP PC AND AFFILIATES; WISZ DAVID L

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