

1) Family number: 67233405 (US2017301220A)

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Title: MODULAR APPROACH FOR SMART AND CUSTOMIZABLE SECURITY SOLUTIONS AND OTHER APPLICATIONS FOR A SMART CITY

Abstract: A modular approach is provided for sensing and responding to detected activity or an event in a region that can be implemented quickly and easily using existing city infrastructure to establish a grid of sensors and detectors to provide localized or wide area coverage. The approach provides a turnkey solution or smart city in a box that can be adapted to different situations and needs to provide communications functionality and/or a desired or customized functionality for a wide range of different applications.

Classifications:

International (IPC 8-9): F21V33/00 G05B19/048 G08B25/08 G08B25/10 H04L12/28 H04L29/08 H04W4/00 H04W4/38 H04W4/50 H04W4/70

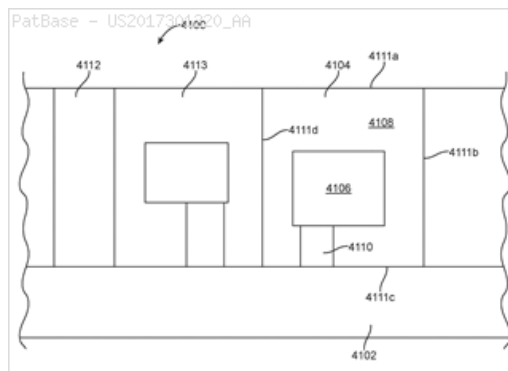
H04W84/18 (Advanced/Invention);

H04W84/18 (Advanced/Non-invention)

CPC: G08B25/08 H04W4/38 H04W4/70 G08B25/10 H04L67/125

H04W4/50 H04W84/18

US: 1/1 340/539.16



Family:

Publication number	Publication date	Application number	Application date
EP3446183 A1	20190227	EP20170786490	20170418
EP3446183 A4	20191127	EP20170786490	20170418
US2017301220 AA	20171019	US20170489526	20170417
US10529221 BB	20200107	US20170489526	20170417
WO17184636 A1	20171026	WO2017US28184	20170418

Priority:

US20160324673P 20160419	US20160331672P 20160504	US20160360335P 20160709
US20160365323P 20160721	US20160385181P 20160908	US20160405080P 20161006
US20170489526 20170417	WO2017US28184 20170418	

Probable Assignee: NAVIO INT INC

Assignee(s): (std): BROWN ERNEST C ; JARRELL JOHN A ; NAVIO INT INC

Inventor(s): (std): BROWN ERNEST C ; JARRELL JOHN A

Agent(s): TLIP LTD; WILSON SONSINI GOODRICH AND ROSATI; ISON ANNA M 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 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

2) Family number: 54513488 (US2013201316A)

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Title: SYSTEM AND METHOD FOR SERVER BASED CONTROL

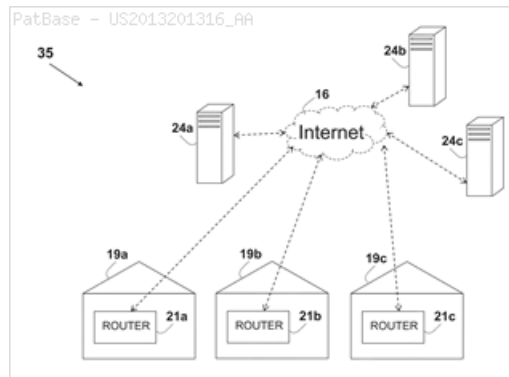
Abstract: A system and method in a building or vehicle for an actuator operation in response to a sensor according to a control logic, the system comprising a router or a gateway communicating with a device associated with the sensor and a device associated with the actuator over in-building or in-vehicle networks, and an external Internet-connected control server associated with the control logic implementing a PID closed linear control loop and communicating with the router over external network for controlling the in-building or in-vehicle phenomenon. The sensor may be a microphone or a camera, and the system may include voice or image processing as part of the control logic. A redundancy is used by using multiple sensors or actuators, or by using multiple data paths over the building or vehicle internal or external communication. The networks may be wired or wireless, and may be BAN, PAN, LAN, WAN, or home networks.

Classifications:

International (IPC 8-9): H04L29/08 (Advanced/Invention); B60K31/00 B60K31/18 G01C21/00 G07C5/00 G08G1/00 (Advanced/Non-invention)

CPC: G06Q2240/00 H04L67/12 Y04S40/18 B60K31/00 B60K31/18 B60Y2200/11 B60Y2200/12 B60Y2200/126 B60Y2200/13 B60Y2200/30 B60Y2200/40 B60Y2200/50 B60Y2200/90 G01C21/00 G07C5/008 G08G1/00

US: 1/1 348/143 348/77 370/276 700/22 700/28 701/2 701/31.4 701/48

**Family:**

Publication number	Publication date	Application number	Application date
US2013201316 AA	20130808	US20130733634	20130103
US2017078400 AA	20170316	US20160361434	20161127
US2017331899 AA	20171116	US20170657163	20170723
US2018034912 AA	20180201	US20170716881	20170927
US2018124181 AA	20180503	US20170832787	20171206
US2018278693 AA	20180927	US20180992219	20180530
US2018278694 AA	20180927	US20180992221	20180530
US2018343304 AA	20181129	US20180053836	20180803
US2018375940 AA	20181227	US20180053834	20180803
US2019098090 AA	20190328	US20180198803	20181122
US2019109904 AA	20190411	US20180198804	20181122

Priority:

US20120584500P	20120109	US20120620129P	20120404	US20120637030P	20120423
US20120647034P	20120515	US20130733634	20130103	US20160361434	20161127
US20170657163	20170723	US20170716881	20170927	US20170832787	20171206
US20180992219	20180530	US20180992221	20180530	US20180053836	20180803
US20180053834	20180803	US20180198803	20181122	US20180198804	20181122

Probable Assignee:

MAY PATENTS LTD

Assignee(s): (std):

MAY PATENTS LTD

Inventor(s): (std):

BINDER YEHUDA ; MAYTAL BENJAMIN

3) Family number: 31576666 (US2008186205A)

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Title: WIRELESS SENSING AND COMMUNICATIONS SYSTEM OF ROADWAYS

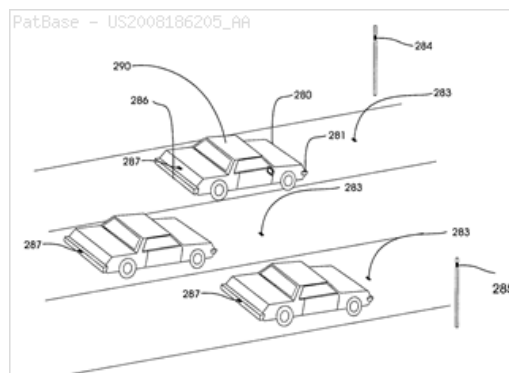
Abstract: Driving condition monitoring system for a vehicle on a roadway includes stationary mounting structures arranged proximate the roadway, and sensors located in the mounting structures in a vicinity of the roadway and apart from the roadway. The sensors generate information about the roadway or an environment around the roadway. An arrangement on the vehicle or associated with the sensors initiates a transmission of the information generated by each sensor to the vehicle when the vehicle is proximate the sensor.

Classifications:

International (IPC 8-9): B60C23/02 B65D25/00 G01C21/26 G01C21/34 G01C21/36 G01F23/28 G01F23/296 G01M17/02 G01S21/26 G05D1/02 G05D13/02 G05D27/00 G06F17/30 G06F19/00 G06K9/00 G08G1/00 G08G1/048 G08G1/0967 G08G1/137 G08G1/16 (Advanced/Invention); B60C23/02 B65D25/00 G01C21/26 G01F23/296 G01M17/02 G05D13/00 G05D27/00 G06F17/30 G06F19/00 G06K9/00 G08C15/00 G08G1/00 G08G1/048 G08G1/123 H01F10/00 H01L43/08 H04B7/15 H04B7/26 H04L12/28 H04L12/56 (Core/Invention)

CPC: G08G1/017 G08G1/096716 G08G1/096758 G08G1/096783 H03H9/642 G01C21/3611 G01C21/34 G01C21/3694 G01C21/3697 G08G1/0967 H04W4/02 H04W4/024 G01C21/3423 G01C21/362 G08G1/161 G01S17/04 B60C11/24 B60C11/246 B60C19/00 B60C23/007 B60C23/008 B60C23/041 B60C23/0411 B60C23/0413 B60C23/0449 B60C23/0493 B60C23/0494 B60C23/0496 B60C23/12 B60N2/002 B60N2/015 B60N2/0232 B60N2/0244 B60N2/0248 B60N2/0252 B60N2/0276 B60N2/067 B60N2/28 B60N2/2806 B60N2/2863 B60N2/829 B60N2/853 B60N2/888 B60N2002/0268 B60N2002/0272 B60Q2900/30 B60R16/037 B60R21/013 B60R21/0134 B60R21/0136 B60R21/01516 B60R21/0152 B60R21/0153 B60R21/01532 B60R21/01534 B60R21/01536 B60R21/01538 B60R21/01542 B60R21/01544 B60R21/01546 B60R21/01548 B60R21/01552 B60R21/01554 B60R21/203 B60R21/21656 B60R21/276 B60R22/20 B60R22/201 B60R25/25 B60R25/252 B60R25/255 B60R25/257 B60R2001/1223 B60R2001/1253 B60R2021/0027 B60R2021/01315 B60R2021/23153 B60R2021/26094 B60R2021/2765 B60R2022/208 B60R2022/288 B60R2022/4685 B60R2022/4825 E05Y2900/55 G01D21/00 G01G19/4142 G01S7/417 G01S7/4802 G01S7/539 G01S13/04 G01S13/755 G01S15/04 G01S15/06 G01S15/42 G01S15/87 G01S15/88 G01S17/89 G06F3/0219 G06F3/0233 G06F3/0237 G06F3/0238 G07C5/008 G07C5/0808 G08B13/2462 G08B13/248 G08B21/0286 G10K2210/1282 G10K2210/3219 H01Q1/2241 H01Q1/3291 B60N2/66 B60Q2300/41 B60Q2300/42 B60R25/04 B60R25/102 B60R25/2081 B60R25/305 B60R2325/304 G01F23/0076 G01F23/20 G01F23/2962 G01S7/003 G01S17/88 G06K9/00362 G06K9/00369 G06K9/00832 G08B13/1427 G08B29/181 H01Q1/225 B60R21/015

European: B60C11/24 B60C19/00 B60C23/00D2 B60C23/00D3 B60C23/04C3 B60C23/04C3A B60C23/04C3C B60C23/04C6D2B B60C23/04E1 B60C23/04E2 B60C23/04E3 B60C23/12 B60N2/00C B60N2/015 B60N2/02B4 B60N2/02B6 B60N2/02B6B B60N2/02B6C B60N2/02B6W B60N2/06S B60N2/28 B60N2/28B2 B60N2/28P4 B60N2/48C2C B60N2/48C3C B60N2/48W B60N2/66 B60R16/037 B60R21/013 B60R21/0136 B60R21/015 B60R22/20 B60R25/04 B60R25/102 B60R25/20R B60R25/25 B60R25/25B



B60R25/25D B60R25/25F B60R25/30D B82Y10/00 B82Y25/00 G01D21/00 G01F23/00G1A G01F23/20 G01F23/296D G01G17/04 G01G19/414A G01G23/00D G01R33/09B G01S13/75C4 G01S15/04 G01S15/42 G01S15/87 G01S15/88 G01S17/02D G01S17/88 G01S7/00R G01S7/41D G01S7/48A G01S7/539 G06F3/023M G06F3/023M8 G06F3/023P G06F3/02A5 G06K9/00H G06K9/00V7 G07C5/00T G07C5/08D G08B13/14D G08B13/24B5T G08B13/24B7D G08B21/02A26 G08B29/18A G08G1/017 G08G1/0967A1 G08G1/0967B3 G08G1/0967C2 G08G1/16A H01Q1/22C8 H01Q1/22E H01Q1/32L10 H03H9/64D L60N2/02B6S L60Q300/410 L60Q300/420 L60Q900/30 L60R1/12C L60R1/12G L60R21/00C L60R21/0132 L60R21/0134 L60R21/013R L60R21/015G2 L60R21/015G6 L60R21/015G6B L60R21/015G6D L60R21/015G6F L60R21/015G6H L60R21/015G7 L60R21/015G8 L60R21/015G8C L60R21/015G8E L60R21/015G9 L60R21/015J L60R21/01H3Y L60R21/203 L60R21/2165S L60R21/231M L60R21/26V L60R21/276 L60R21/276L L60R22/20B L60R22/20R L60R22/28L L60R22/46L L60R22/48B2 L60R325/30D P05Y900/550 S01S13/04 S01S15/04 S01S15/06 S01S15/42 S01S15/87 S01S15/88 S01S17/02D S01S17/89 S01S7/41D S01S7/48A S01S7/539 S06K9/00H1 S07C5/00T S10K210/1282 S10K210/3219 S11B5/39C1E S11B5/39C1H2 S11B5/39W
US: 1/1 220/694 220/694S 340/442 340/901 340/901P 340/995.1 370/238P 382/104 382/104S 701/117 701/117P 701/117S 701/201 701/201S 701/202 701/202S 701/208 701/209 701/209S 701/25 701/25P 701/300 701/300S 701/301 701/301S 701/423 701/428 701/428S 701/472 701/472S 73/146 73/146.5 73/146.500P 73/290.00V 73/290.00VP 73/290V

Family:

Publication number	Publication date	Application number	Application date
US2008186205 AA	20080807	US20080062099	20080403
US2008215202 AA	20080904	US20080061916	20080403
US2008215231 AA	20080904	US20080059456	20080331
US2008216567 AA	20080911	US20070928763	20071030
US2008236275 AA	20081002	US20070865363	20071001
US7603894 BB	20091020	US20070928763	20071030
US7819003 BB	20101026	US20070865363	20071001
US7899616 BB	20110301	US20080059456	20080331
US9177476 BB	20151103	US20080061916	20080403

Priority:

US19950476077	19950607	US19950550217	19951030	US19950571247	19951212
US19970947661	19971009	US19970062729P	19971022	US19980073403	19980506
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US20000679317	20001004	US20010753186	20010102	US20010765558	20010119
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US20060470061	20060905	US20060562730	20061122	US20060565020	20061130
US20070619863	20070104	US20070681817	20070305	US20070755199	20070530
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US20070874418	20071018	US20070928763	20071030	US20080059456	20080331
US20080062099	20080403	US20080061916	20080403	US20080062177	20080403

Probable Assignee: INTELLIGENT TECHNOLOGIES INT INC

Assignee(s): (std): AMERICAN VEHICULAR SCIENCES LLC ; AUTOMOTIVE TECH INT ; INTELLIGENT TECH INT INC ; BREED DAVID S

Assignee(s): ALPS ELECTRIC CO ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; FUJITSU LIMITED ; INTELLIGENT TECHNOLOGIES INT INC ; INTELLIGENT TECHNOLOGIES INT ; INTELLIGENT TECHNOLOGIES INTERNATIONAL INC

Inventor(s): (std): JOHNSON WENDELL C ; DUVALL WILBUR E ; BREED DAVID S

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

4) Family number: 73433714 (WO19043446A1)

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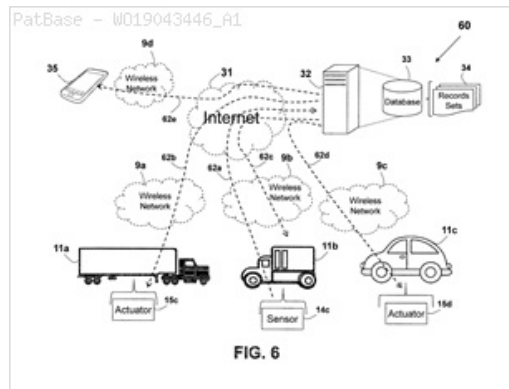
Title: A METHOD AND APPARATUS FOR COLLECTING AND USING SENSOR DATA FROM A VEHICLE

Abstract: A road hazard, such as a traffic collision, traffic regulation violation, road surface damage, or any other traffic obstruction, is detected by a sensor in a vehicle. The sensor data is sent periodically, or upon detecting the anomaly, to a server over the Internet via a first wireless network, together with a vehicle identifier (Vehicle Identification Number (VIN) or the license plate number) and its GNSS or GPS geographic location. The server analyzes the sensor data, and in response sends a notification message to a client device, such as a smartphone, or to a group of vehicles in close vicinity to the first vehicle, via a wireless network over the Internet. The received message may be used by each of the vehicles in the group for controlling, limiting, activating, or otherwise affecting an actuator operation, or may be used for notifying the driver using a dashboard display.

Classifications:

International (IPC 8-9): G08G1/00 G08G1/16 (Advanced/Invention)

CPC: G05D1/0287 G07C5/008 G08G1/164 G08G1/205



Family:

Publication number	Publication date	Application number	Application date
WO19043446 A1	20190307	WO2018IB00804	20180725

Priority:

US20170553936P 20170904

Probable Assignee: NNG SOFTWARE DEV AND COMMERCIAL LLC

Assignee(s): (std): NNG SOFTWARE DEV AND COMMERCIAL LLC

Assignee(s): NNG SOFTWARE DEVELOPING AND COMMERCIAL LLC

Inventor(s): (std): KERECSEN TAMAS

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 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

5) Family number: 66904727 (US2019154439A)

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Title: A METHOD AND APPARATUS FOR COOPERATIVE USAGE OF MULTIPLE DISTANCE METERS

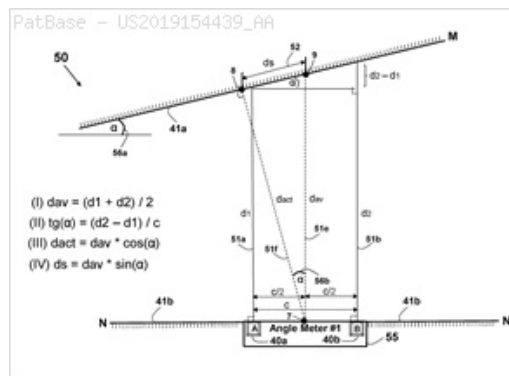
Abstract: A method and apparatus for an angle meter cooperatively using two or more non-contact distance meters for measuring distances to a surface along substantially parallel lines. The measured distances are used for estimating or calculating the angle to the surface and the distance to the surface. The distance meters may use optical means, where a visible or non-visible light or laser beam is emitted and received, acoustical means, where an audible or ultrasound sound is emitted and received, or an electromagnetic scheme, where radar beam is transmitted and received. The distances may be estimated using a Time-of-Flight (TOF), homodyne or heterodyne phase detection schemes. The distance meters may share the same correlator, signal conditioning circuits, or the same sensor. Two or more angle meters may be used defining parallel or perpendicular measurement planes, for measuring angles between surfaces, and for estimating physical dimensions such as length, area or volume.

Classifications:

International (IPC 8-9): G01B11/02 G01B11/26 G01B15/04 G01C3/10 G01C3/18 G01S17/08 G01S17/42 (Advanced/Invention)

CPC: G01S17/08 G01S15/08 G01S15/42 G01S13/878 G01S2013/468 G01B11/26 G01B11/026 G01B15/00

US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US2019154439 AA	20190523	US20170081901	20170222
WO17149526 A2	20170908	WO2017IL50220	20170222
WO17149526 A3	20171005	WO2017IL50220	20170222

Priority:

US20160303388P 20160304

US20160373388P 20160811

WO2017IL50220 20170222

US20170081901 20170222

Probable Assignee: MAY PATENTS LTD

Assignee(s): (std): MAY PATENTS LTD

Inventor(s): (std): BINDER YEHUDA

Agent(s): BINDER SHEM TOV DORIT

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
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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

6) Family number: 65574802 (WO17072109A1) PatBase

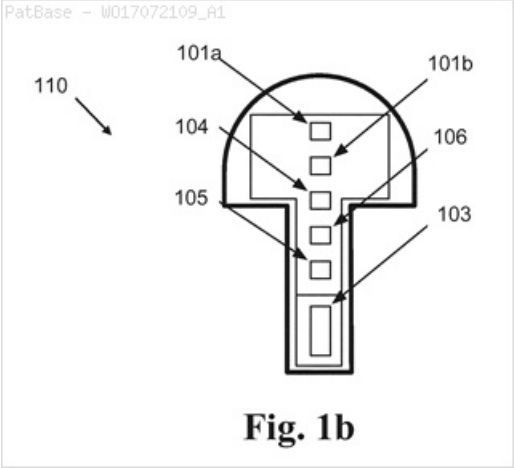
Title: A SIGN MONITORING APPARATUS, RELATED METHODS AND SYSTEMS

Abstract: This disclosure provides a sign monitoring apparatus for mounting on a sign. The sign monitoring apparatus comprises a first sensor configured to measure a first parameter indicative of a position of the sign; and/or a second sensor configured to measure a second parameter indicative of a condition related to the sign. The sign monitoring apparatus comprises a processing unit operatively connected to the first and/or second sensor, the processing unit being configured to generate monitoring data indicative of a state of the sign based on the measured first and/or second parameter; an interface unit configured to communicate the monitoring data; and a memory unit configured to store the monitoring data.

Classifications:

International (IPC 8-9): G01D21/00 (Advanced/Invention)

CPC: E01F9/00 E01F9/30 E01F9/60 G01D21/00 G06F11/00



Family:

Publication number	Publication date	Application number	Application date
WO17072109 A1	20170504	WO2016EP75661	20161025

Priority:

EP20150191670 20151027

Probable Assignee: NORDSENSE IVS

Assignee(s): (std): NORDSENSE IVS

Inventor(s): (std): MAESTRINI MANUEL ; LAPINS ROBERTS

Agent(s): COPA COPENHAGEN PATENTS

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