

1) Family number: 68719268 (US2018056940 AA)

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Title: VEHICLE SECURITY SYSTEM

Priority: US20160252149 20160830 WO2017US47851 20170821 US20170682373 20170821
US20180967135 20180430 US20180145743 20180928

Family:	Publication number	Publication date	Application number	Application date
	AU2017321242 AA	20190321	AU20170321242	20170821
	BR112019003943 A2	20190521	BR20191103943	20170821
	CA3035362 AA	20190227	CA20173035362	20170821
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	EP3507145 A4	20200506	EP20170847227	20170821
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	US2018244240 AA	20180830	US20170682373	20170821
	US10654448 BB	20200519	US20180145743	20180928
	US2019031146 AA	20190131	US20180145743	20180928
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	WO18044609 A1	20180308	WO2017US47851	20170821
	ZA201901904 A	20200930	ZA20190001904	20170821

Probable Assignee: NZUBE ETONYE

Assignee(s):(std): ETONYE NZUBE ; ETONYE NZUBE JOHN ; NZUBE ETONYE

Inventor(s):(std): ETONYE NZUBE ; ETONYE NZUBE JOHN ; NZUBE ETONYE

Agent(s): EAGLE IP LTD; MILLER JAMES LIONEL WOOLVERTON; O BRIEN MICHAEL J; PLAGER MARK ET AL;
PLAGER MARK H; PLAGER SCHACK LLP; RIDOUT AND MAYBEE LLP; SHELSTON IP PTY LTD

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
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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

International class (IPC 8-9): B60R B60R1/00 B60R1/02 B60R1/04 B60R1/12 B60R11/02 B60R25/01 B60R25/04 B60R25/042
B60R25/08 B60R25/10 B60R25/102 B60R25/104 B60R25/20 B60R25/23 B60R25/24 B60R25/25
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G08B21/00 H04N5/765 H04N7/18

International class (IPC 1-7): B60R1/12 B60R25/10

CPC: B60R1/00 B60R1/04 B60R1/12 B60R11/0217 B60R11/0247 B60R2001/1215 B60R2025/0405
B60R2025/0415 B60R2025/1016 B60R2300/105 B60R2300/302 B60R2300/8006 B60R2300/8073
B60R25/042 B60R25/08 B60R25/1004 B60R25/102 B60R25/104 B60R25/302 B60R25/305 B60R25/31
B60R25/32 B60R25/33 G06K9/00771 G06K9/00832 H04N7/181 B60R1/02 B60R2001/1253
B60R2001/1276 B60R2001/1284 B60R2325/205 B60R25/04 B60R25/23 H04N7/188 B60R25/01
B60R25/24 B60R25/25 B60R25/252 B60R25/255 B60R25/257 G06K2009/00738 G06K9/00006
G06K9/00288 G06K9/00617 G06K9/22 G07C5/008 G07C9/00174 G07C9/00563

US class: 1/1 340/426.12

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Cited documents: US2019174099 AA, US2019122217 AA, US2018056988 AA, US2016306350 AA, US2014073254 AA,
US10162347 BB, US10157384 BB, US2018072263 AA, US2018020139 AA, US2017036644 AA,
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US6028537 A, US2011080481 AA, US2009109008 AA, US2009079829 AA, US9319639 BA, US4486806
A, US8855621 BB, US2007115099 AA, US2008234878 AA, US2011149078 AA, US2014306799 AA,
US2016129788 AA, US2016214535 AA, US2014218523 AA, US9315152 BA, US2002082058 AA,
US2003210328 AA, WO14172322 A1, CN203805848 U, WO14054752 A1, CN102897094 A,
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Forward Citations: CN109624920 A, CN110084929 A, CN110120112 A, US2019330908 AA, CN111216681 A,

DE102019204617 A1

US10464525 BB, CN110712533 A, EP3561786 A1, WO20126880 A1,

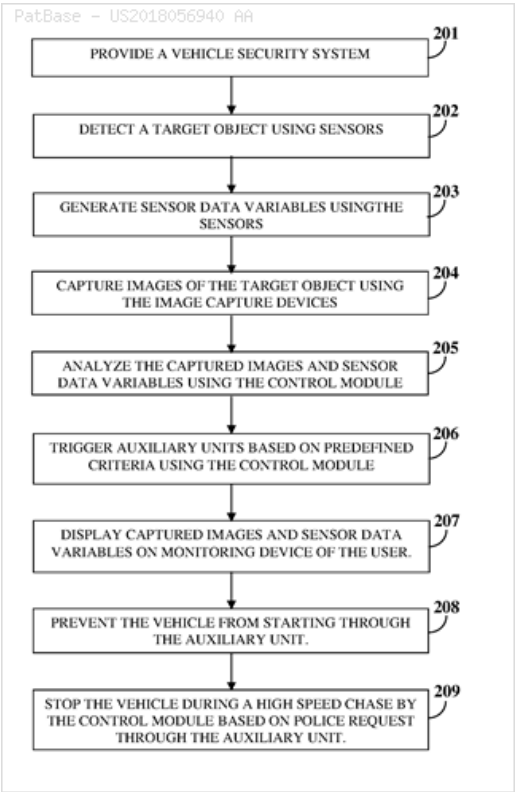
DE102018222864 B3

US10486649 BA,

Abstract:

A vehicle security system for monitoring a vehicle and notifying a user includes at least two image capture devices (ICD), sensors, a global positioning system tracking module (GPSTM), a control module (CM), and a monitoring device. The ICD are positioned at predetermined locations of the vehicle for capturing and transmitting images of a target object. The sensors

generate sensor data variables based on a detection of the target object. The GPSTM generates and transmits signals based on a position of the vehicle to a monitoring device. The CM receives the captured images and sensor data variables. The CM analyzes the received images and sensor data variables based on predefined criteria to trigger auxiliary units. The CM transmits the images and sensor data variables based on the predefined criteria to the monitoring device. A graphical user interface displays the images for monitoring the vehicle and notifies the user.



2) Family number: 77717750 (WO20126880 A1)

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Title:

METHOD FOR DEACTIVATING A MOTOR VEHICLE, DEACTIVATION SYSTEM FOR A MOTOR VEHICLE, AND MOTOR VEHICLE

Priority:

DE201810222864 20181221

Family:

Publication number	Publication date	Application number	Application date
DE102018222864 B3	20200220	DE201810222864	20181221
WO20126880 A1	20200625	WO2019EP85029	20191213

Probable Assignee:

VOLKSWAGEN GROUP

Assignee(s):(std):

VOLKSWAGEN AG ; VOLKSWAGEN GROUP

Inventor(s):(std):

NEUBAUER MARC

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

International class (IPC 8-9):

B60R25/00 G06F21/79 G06F21/88 H04L9/06

CPC:

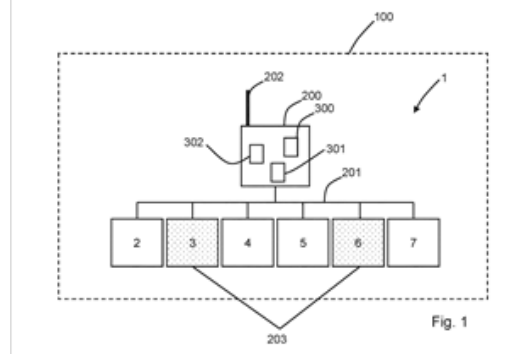
B60R25/04 G06F21/88 H04L2209/80 H04L2209/84 H04L9/0861

Classification Explorer

Cited documents:

US2004160319 AA, US9688245 BB, US9646794 BB, US8805599 BB, US10017156 BB, DE4333474 A1, DE19936116 A1, DE102015010203 A1, DE102013020333 A1

Abstract:
The invention relates to a method (400) for deactivating a motor vehicle (100), the motor vehicle (100) comprising a deactivation system (1), which has a plurality of bus subscribers (2-7) each having a deactivation function (21), said method comprising: selecting, on the basis of a random number, a set of bus subscribers (203) from the plurality of bus subscribers (2-7) having the deactivation function (21) in order to provide the deactivation of the motor vehicle (100).

**3) Family number: 70342781** (US2018186308 AA)

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Title: THERMAL CONTROL SYSTEM FOR A DIGITAL LICENSE PLATE

Priority:

US20170442750P	20170105	US20170442755P	20170105	US20170442764P	20170105
US20170442777P	20170105	US20170442757P	20170105	US20170442727P	20170105
US20170442734P	20170105	US20170442766P	20170105	US20170442780P	20170105
US20170443133P	20170106	US20170547468P	20170818	US20170547477P	20170818
US20170547426P	20170818	US20170547611P	20170818	US20170547594P	20170818
US20170547607P	20170818	WO2018US12640	20180105	WO2018US12634	20180105
WO2018US12620	20180105	WO2018US12656	20180105	WO2018US12577	20180105
WO2018US12664	20180105	US20180863684	20180105	US20180863530	20180105
US20180863608	20180105	US20180863648	20180105	US20180863631	20180105
US20180863582	20180105	US20180863654	20180105	US20180863361	20180105
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Family:

Publication number	Publication date	Application number	Application date
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KR20200003779 A	20200110	KR20197022027	20180105
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WO18129371 A1	20180712	WO2018US12656	20180105
WO19036059 A1	20190221	WO2018US12664	20180105

Probable Assignee: REVIVERMX INC

Assignee(s):(std): REVIVERMX INC

Assignee(s): BATTEN DEAN ; BOSTON NEVILLE TRUMAN ; CHEN JOHN ; DUBAL PRASHANT ; KOPELMAN AVI ; MASON TODD CHRISTOPHER ; ODENHEIMER ZACHARY ; SPALL JOHN

Inventor(s):(std): BATTEN DEAN ; BOSTON NEVILLE ; BOSTON NEVILLE TRUMAN ; CHEN JOHN ; DUBAL PRASHANT ; KOPELMAN AVI ; MASON TODD ; MASON TODD CHRISTOPHER ; ODENHEIMER ZACHARY ; SPALL JOHN

Agent(s): BETTEN AND RESCH; SMART AND BIGGAR; SMART AND BIGGAR LLP; STEVENS DAVID R; STEVENS LAW GROUP

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 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

International class (IPC 8-9): B60Q1/00 B60Q1/26 B60Q1/50 B60Q1/56 B60R11/02 B60R13/00 B60R13/10 B60R16/023 B60R16/033 B60R21/01 B60R25/01 B60R25/102 B60R25/104 B60R25/20 B60R25/24 B60R25/25 B60R25/30 B60R25/32 B60R25/34 E05B49/00 E05B83/00 G01K13/00 G01P13/00 G01S13/75 G05B15/02 G05D23/19 G06F1/32 G06F1/3206 G06F1/3234 G06F21/57 G06F21/62 G06F3/147 G06K19/06 G06K19/07 G06K19/08 G06K7/10 G06K7/14 G06K9/32 G06Q20/02 G06Q20/12 G06Q20/30 G06Q20/32 G06Q20/40 G06Q30/02 G06Q30/06 G06Q40/08 G06Q50/26 G07B15/06 G07C5/00 G07F17/24 G08B1/08 G08B13/06 G08B13/22 G08B25/08 G08B5/36 G08G1/00 G08G1/017 G09F19/00 G09F21/04 G09F7/02 G09F7/18 G09F9/30 G09F9/33 G09F9/35 G09G3/36 G09G5/00 H01Q1/24 H01Q1/32 H04B1/00 H04B1/3822 H04L29/06 H04L9/00 H04L9/08 H04L9/30 H04L9/32 H04W12/04 H04W4/02 H04W4/44 H04W4/80

CPC: B60Q1/503 B60Q1/56 B60R13/10 G06K19/06037 G06K19/08 G06Q30/0265 G07B15/06 G07B15/063 G07C5/008 G09G2300/0473 G09G2320/041 G09G2320/06 G09G2330/021 G09G2360/144 G09G2380/10 G09G3/36 G09G5/00 G05B15/02 G05D23/1917 G09F21/048 G09F9/33 G09F9/35 B60R13/105 B60R21/01 G01P13/00 G06F1/3206 G06F1/3265 H04W4/02 H04W4/44 H04W4/80 Y02D10/00 Y02D30/70 B60R25/102 B60R25/25 B60R25/34 G06K19/0723 G06K7/10366 G09F2007/1895 G09F9/30 B60R13/00 B60R2325/108 B60R2325/205 B60R25/01 B60R25/209 B60R25/24 B60R25/305 G06F3/147 G06K19/06028 G06K19/06112 G06K19/0614 G06K2209/15 G06K7/1417 G06K9/2063 G06K9/325 G06Q30/0645 G06Q40/08 G06Q20/02 G06Q20/127 G06Q20/325 G06Q20/3278 G06Q20/386 G06Q20/40145 G06Q30/0246 G06Q30/0257 G06Q30/0261 G06Q30/0269 G07F17/246 B60Y2400/302 B60R2325/105 B60R25/104 B60Q1/0023 B60Q1/0088 B60R16/023 B60R16/033 G06F21/6245 G06Q30/0267 G06Q50/26 G09F21/04 H04W4/90 G06Q20/085 G06Q20/145 G06Q20/308 G06Q20/3224 G06Q20/405 G06Q2240/00 G06F21/575 G06F21/88 H04L2209/80 H04L2209/84 H04L63/0428 H04L63/0442 H04L67/42 H04L9/006 H04L9/0825 H04L9/30 H04L9/3268 H04W12/04 H04W12/35 H04W4/50 H01Q1/24 H01Q1/3208 H01Q1/325 H01Q1/3283 H01Q21/28 H04B1/005 H04B1/3822

US class: 1/1 340/426.18 340/815.53 345/101 382/105 40/204 455/90.2 705/13 705/14.45 713/158 726/28

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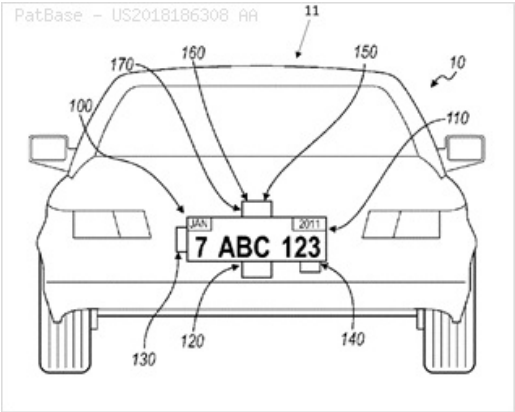
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Forward Citations:

DE102018129481 A1

US10453364 BB, RU2697241 C1, US10300890 BB, US2019381957 AA, US10614921 BB, US2020058214 AA, EP3686043 A1, US10679490 BB, WO20104135 A1, EP3656614 A1, WO20083532 A1, WO20193739 A1, US10464525 BB, US2018186331 AA,

Abstract:
Vehicle mounted exterior displays and digital license plates able to operate over a wide temperature range are disclosed. In one embodiment, heat relevant display parameters can be modified as critical low temperatures are approached. If decreasing temperature is determined to be likely to interfere with display switching operation, legally required information is displayed and potentially interfering content is eliminated.



4) Family number: 76349149 (EP3561786 A1) © PatBase

Title:

METHOD AND DEVICE FOR OPERATING A VEHICLE

Priority:

EP20180020170 20180424

Family:

Publication number	Publication date	Application number	Application date
EP3561786 A1	20191030	EP20180020170	20180424

Probable Assignee:

PORSCHE SE

Assignee(s):(std):

PORSCHE AG ; PORSCHE SE

Assignee(s):

DR ING HC F PORSCHE AG

Inventor(s):(std):

FOLIGNO MARK

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

International class (IPC 8-9):

B60R25/04 B60R25/10 B60R25/30 B60R25/31 B60W50/00 G08B13/196

CPC:

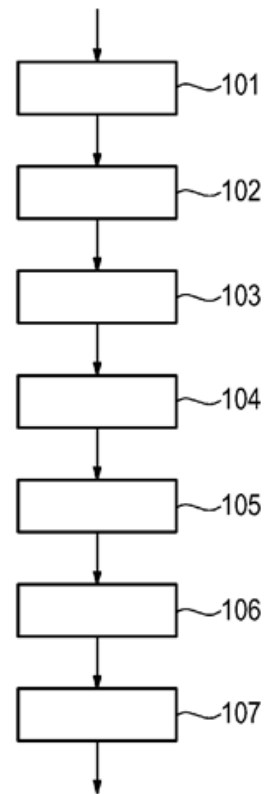
B60R2025/1013 B60R25/10 B60R25/102 B60R25/305 B60R25/31 G08B13/19602 G08B13/19613 G08B13/19647

Classification Explorer

Cited documents:

WO17015548 A1, WO17155448 A1, US2017371339 AA, WO10037338 A1, US2018056940 AA, US2016129883 AA, US2014306799 AA, US2009109008 AA,

Abstract:
A device and a method of operating a vehicle comprising detecting (101) a presence or an absence of an occupant inside the vehicle, determining (102) a vehicle parking state, detecting (103), a motion in a space surrounding the vehicle within a predetermined distance of the vehicle, capturing (104) at least one image of at least a part of the space surrounding the vehicle, detecting (105) from the at least one image a presence of a thread to the vehicle, determining (106) a reaction of the vehicle depending on the detected thread, starting (107) the determined response autonomously in case of absence of any occupant inside the vehicle and when the vehicle is in a vehicle parking state.

Fig. 1**5) Family number: 76656304** (US10486649 BA)

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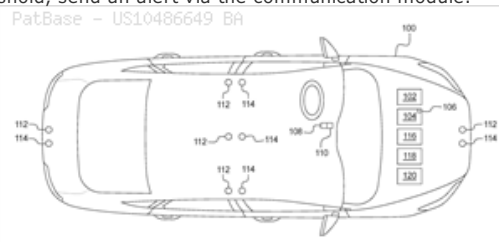
Title: VEHICLE SECURITY MONITORING IN A KEY-OFF STATE**Priority:** US20180208492 20181203

Family:	Publication number	Publication date	Application number	Application date
	■ CN111332248 A	20200626	CN201911172478	20191126
	■ DE102019132734 A1	20200604	DE201910132734	20191202
	■ US10486649 BA	20191126	US20180208492	20181203

Probable Assignee: FORD GLOBAL TECH LLC**Assignee(s):(std):** FORD GLOBAL TECH LLC**Assignee(s):** FORD GLOBAL TECHNOLOGIES LLC**Inventor(s):(std):** BENNIE BRIAN ; DIEDRICH JONATHAN ; GEHRKE MARK ; GHANNAM MAHMOUD YOUSEF**Agent(s):** EVERSLEDs SUTHERLAND US LLP; LOLLO FRANK**International class (IPC 8-9):** B60R16/03 B60R25/10 B60R25/102 B60R25/30 B60R25/40**CPC:** B60R16/03 B60R2325/10 B60R2325/20 B60R2325/202 B60R2325/205 B60R25/10 B60R25/1004 B60R25/102 B60R25/30 B60R25/40 B60R25/403[Classification Explorer](#)**Cited documents:** US9452732 BA, US9870697 BB, US9908509 BB, US2011149078 AA, US2018118166 AA, US2018154908 AA, CN104670155 B, CN107571840 A, WO201463400 A1, WO14063400 A1, CN104670155 A, US10017156 BB,**Abstract:**

Method and apparatus are disclosed for vehicle security monitoring in a key-off state. An example vehicle includes low-power sensors and high-power sensors for security monitoring, a communication module, and a controller. The controller is to, when in a key-off state, determine a first score based on the low-power sensors. The controller also is to, responsive the first score exceeding a first threshold, activate the high-power sensors and determine a second score based on the high-power sensors. The controller also is to, responsive the second score exceeding a second threshold, send an alert via the communication module.

PatBase - US10486649 BA



6) Family number: 76351862 (US2019330908 AA)

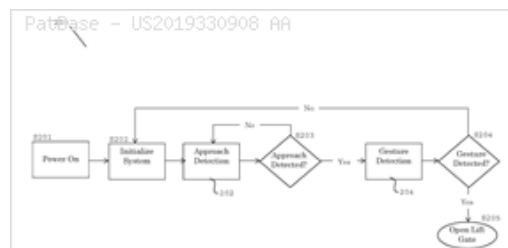
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Title: CAMERA BASED HANDS-FREE POWER LIFT GATE**Priority:** US20180966515 20180430 WO2019IB53553 20190430**Family:**

Publication number	Publication date	Application number	Application date
CA3099030 AA	20201030	CA20193099030	20190430
US2019330908 AA	20191031	US20180966515	20180430
WO19211760 A1	20191107	WO2019IB53553	20190430

Probable Assignee: GRILLS REGINALD C**Assignee(s):(std):** GRILLS REGINALD C ; MACK ADAM ; MATKIWSKY YARKO ; TOFILESU POMPILIAN ; ZSOMBORY SANDOR**Inventor(s):(std):** GRILLS REGINALD C ; MACK ADAM ; MATKIWSKY YARKO ; TOFILESU POMPILIAN ; ZSOMBORY SANDOR**Agent(s):** RIDOUT AND MAYBEE LLP**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**International class (IPC 8-9):** B60J5/10 B60Q1/00 E05F15/73 E05F15/76 G06F3/01 G06K9/00 H04N5/232**CPC:** B60J5/101 B60Q1/0076 B60Q2400/40 E05F15/611 E05F15/73 E05F15/76 E05F2015/767 E05Y2400/852 E05Y2400/858 E05Y2800/106 E05Y2900/546 G06K9/00335 G06K9/00791 H04N5/23219 H04N5/23241[Classification Explorer](#)**Cited documents:** US2017009509 AA, US9470033 BA, WO16088359 A1, US2016281410 AA, WO14089696 A1, US2015127193 AA, US2019217778 AA, US2017190314 AA, US2004046409 AA, US2019031146 AA, US2018236929 AA, US2019122056 AA, US2016323484 AA, US2019256049 AA, US2016083995 AA,**Abstract:**

A method and system for a camera based hands free power liftgate is described herein. The system may power on following a key approach and/or the doors unlocking and then initialize. If there is an approach detected, the lights may be activated and the gesture detection feature of the system may then determine whether a gesture was detected. If a gesture was detected, the liftgate may then be activated. If no gesture was detected, the lights may be activated. For example, if there is a key approach, the system may power and initialize. The system may then determine whether an approach is detected. If an approach is detected, lights of the vehicle may activate and a determination whether a gesture is detected is made. If a gesture is detected, a liftgate of the vehicle may be activated.

**7) Family number: 81240423** (WO20200742 A1)

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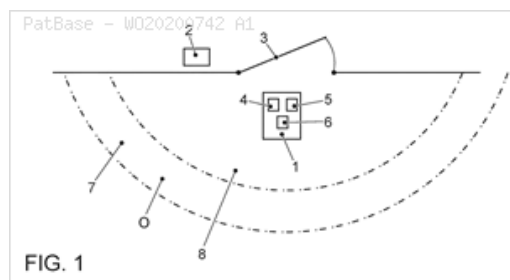
Title: COMMUNICATION METHOD BETWEEN A SELF-DRIVING VEHICLE AND A LOCKING SYSTEM, AND SELF-DRIVING VEHICLE**Priority:** DE201910204617 20190401**Family:**

Publication number	Publication date	Application number	Application date
DE102019204617 A1	20201001	DE201910204617	20190401
WO20200742 A1	20201008	WO2020EP57148	20200316

Probable Assignee: VOLKSWAGEN GROUP**Assignee(s):(std):** VOLKSWAGEN AG**Assignee(s):** VOLKSWAGEN GROUP**Inventor(s):(std):** KUNZLER ROLF ; VOGT HENNING SEBASTIAN**Inventor(s):** KUNZLER ROLF DR**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 WS ZA ZM ZW**International class (IPC 8-9):** G06Q10/08 G07C9/00**CPC:** G07C2009/0092 G07C9/00309[Classification Explorer](#)**Cited documents:** DE102015117228 A1
DE102016015444 A1
DE202015001428 U, US2018141661 AA,
DE102015209482 A1
US2017358185 AA, US2019031146 AA, WO18022468 A1,

Abstract:

The invention relates to a communication method between a self-driving vehicle (1) and a locking system (2), wherein: a control command is transmitted to the locking system (2) in order to unlock an entrance (3); the entrance secured by the locking system is opened such that the vehicle (1) can pass the entrance (3) or can set down or pick up items behind the entrance (3); the locking system (2) and/or the vehicle (1) comprise at least one sensor system (4) for detecting an environment, in order to detect persons or potentially intruding objects (O) in the environment of the entrance (3); if a potentially intruding person or a potentially intruding object (O) is detected, the entrance (3) is not unlocked or an already-unlocked entrance (3) is locked again. The invention also relates to a self-driving vehicle (1).

**8) Family number: 73987808** (CN109624920 A)

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Title: VEHICLE HIJACKING PREVENTION AND ALARMING METHOD AND EQUIPMENT AND STORAGE EQUIPMENT

Priority: CN201811509450 20181211

Publication number	Publication date	Application number	Application date
CN109624920 A	20190416	CN201811509450	20181211

Probable Assignee: WUHAN GELUOFU HYDROGEN AUTOMOBILE CO LTD

Assignee(s):(std): WUHAN GELUOFU HYDROGEN AUTOMOBILE CO LTD

Assignee(s): WUHAN GELUOFU HYDROGEN AUTOMOBILE CO ; WUHAN GROVE HYDROGEN CARS CO LTD

Inventor(s):(std): HAO YIGUO ; WANG JUNJIE ; WANG QUANBAO

International class B60R25/102 B60R25/104 B60R25/33

(IPC 8-9):

CPC: B60R25/102 B60R25/104 B60R25/33

[Classification Explorer](#)

Cited documents: US2018072263 AA, WO18044609 A1, CN107622647 A, CN1599397 A, CN2683465 Y,

Forward Citations: CN110562177 A,

Abstract:

The invention provides a vehicle hijacking prevention and alarming method and equipment and storage equipment. The vehicle hijacking prevention and alarming method is applied to a vehicle, and the vehicle comprises an alarming device, a cloud end server and terminal equipment; when the vehicle is hijacked, the alarming device gives out trigger signals and sends the trigger signals to the cloud end server, and the cloud end server gives an alarm to the terminal equipment according to the received trigger signals. The vehicle hijacking prevention and alarming equipment and the storage equipment are used for implementing the vehicle hijacking prevention and alarming method. The vehicle hijacking prevention and alarming method has the advantages that the technical scheme comprises diversified alarming modes, and the vehicle hijacking prevention and alarming equipment can adapt to different vehicle hijacking conditions, has a voice persuasion function and can persuade criminals to stop criminal acts; positioning of the vehicle is periodically sent to the cloud end server to be stored, and thus the police can rapidly acquire position information of the vehicle conveniently.

**9) Family number: 77384898** (CN110712533 A)

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Title: ELECTRIC VEHICLE AND MOTION STATE LOCKING METHOD SUITABLE FOR ELECTRIC VEHICLE

Priority: CN201911081161 20191107

Publication number	Publication date	Application number	Application date
CN110712533 A	20200121	CN201911081161	20191107

Probable Assignee: QINGDAO HISENSE MOBILE COMM

Assignee(s):(std): QINGDAO HISENSE MOBILE COMM ; QINGDAO HISENSE TELECOMMUNICATIONS TECHNOLOGY CO LTD

Assignee(s): QINGDAO HISENSE MOBILE COMMUNICATIONS TECHNOLOGY CO

Inventor(s):(std): QI CHUNSHENG

International class B60L50/50 G01S19/42

(IPC 8-9):

CPC: B60L50/50 G01S19/42 Y02T10/70

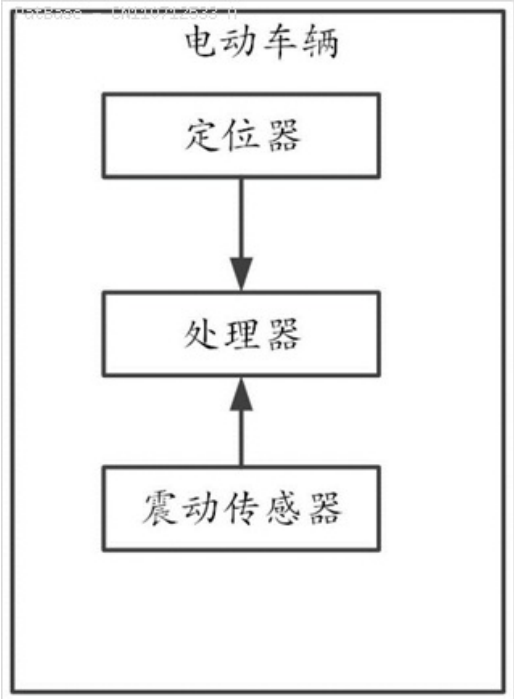
[Classification Explorer](#)

Cited documents: CN110007323 A, CN109760633 A, CN109484411 A, CN109121079 A, US2018244241 AA, KR20170055178 A, CN105438176 A,

Abstract:

The invention discloses an electric vehicle and a motion state locking method suitable for the electric vehicle. The electric vehicle comprises a positioner, a vibration sensor and a processor. The positioner is used for collecting satellite positioning signals. When it is determined that the signal strength of the satellite positioning signals is smaller than a preset threshold and it is determined through the vibration sensor that the electric vehicle is in a vibrating state, positioning data of a base station is obtained. The processor is used for determining whether the electric vehicle is in a motion state or not according to the positioning data of the

base station.



10) Family number: 75491203 (CN110120112 A) © PatBase

Title:

Priority:

Family:

Probable Assignee:

Assignee(s):(std):

Assignee(s):

Inventor(s):(std):

International class (IPC 8-9):

CPC:

Classification Explorer

Cited documents:

KEY FOR FACE RECOGNITION FOR ELECTRIC VEHICLE

CN201910292077 20190412

Publication number	Publication date	Application number	Application date
 CN110120112 A	20190813	CN201910292077	20190412

QILU INST TECH

QILU INST OF TECH ; QILU INST TECH

QILU INST OF TECHNOLOGY

HUANG LILI ; WANG YANLI ; ZHAO SHAOHUA

G07C9/00 G08B21/24

G07C9/00309 G07C9/00563 G08B21/24

[Classification Explorer](#)

US2019031146 AA, CN108819856 A, CN207902380 U, CN108340878 A, GB2558590 A1, EP3280621 A1, CN205050220 U,

Abstract:
The invention provides a key for face recognition for an electric vehicle. The key comprises an electric vehicle instrument box cover, a sound alarm, a control switch, a protective shell, a mechanical key hole, a light-fillable face recognition camera structure, an information processing installation fixing plate structure, a sealable standby battery box structure, easy-to-install sealed protective frame structure, an oil-lubricating conduit, a fixed card, an oil filter nozzle, an oil filler hole, a connection belt and a leak-proof blocking cap, wherein the sound alarm is embedded on upper left side of a front surface of the electric vehicle instrument box cover. According to the key for face recognition for the electric vehicle, the setting of the face recognition collection camera and the protective shield cover is beneficial to face recognition, and the camera is protected under the action of the protective shield cover; the setting of a support light pole and a light-filling lamp is beneficial to playing the role of supplementing light when the light is dark, thus the need for face recognition is satisfied and the electric vehicle is unlocked when the key is lost.

