# OP \$190.00 88120392

# TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 ETAS ID: TM509864

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

#### **CONVEYING PARTY DATA**

Name	Formerly	Execution Date	Entity Type
SMARTDRIVE SYSTEMS, INC.		02/08/2019	Corporation: DELAWARE

#### **RECEIVING PARTY DATA**

Name:	ORIX GROWTH CAPITAL, LLC		
Street Address:	1717 Main Street, Suite 1100		
City:	Dallas		
State/Country:	TEXAS		
Postal Code:	75201		
Entity Type:	Limited Liability Company: DELAWARE		

#### **PROPERTY NUMBERS Total: 7**

Property Type	Number	Word Mark			
Serial Number:	88120392	SMARTRECORDER			
Serial Number:	87756944	SMARTSENSE			
Serial Number:	87604924	SMARTDRIVE			
Registration Number:	5341339	SMARTDRIVE SMARTIQ			
Registration Number:	3819803	SMARTDRIVE			
Registration Number:	4154356	SMARTDRIVE			
Registration Number:	3823581	SMARTDRIVE			

### **CORRESPONDENCE DATA**

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 7037125390

**Email:** mguidry@mcguirewoods.com

Correspondent Name: Melissa Guidry
Address Line 1: 1750 Tysons Blvd

Address Line 4: Tysons, VIRGINIA 22102

ATTORNEY DOCKET NUMBER:	2067493-0038
NAME OF SUBMITTER:	Melissa Guidry
SIGNATURE:	/Melissa Guidry/

**DATE SIGNED:** 02/12/2019 **Total Attachments: 19** source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page1.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page2.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page3.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page4.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page5.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page6.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page7.tif source=Active\_112907061\_1\_[SmartDrive] Intellectual Property Security Agreement#page8.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page9.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page10.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page11.tif source=Active\_112907061\_1\_[SmartDrive] Intellectual Property Security Agreement#page12.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page13.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page14.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page15.tif source=Active\_112907061\_1\_[SmartDrive] Intellectual Property Security Agreement#page16.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page17.tif source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page18.tif

source=Active 112907061 1 [SmartDrive] Intellectual Property Security Agreement#page19.tif

#### INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this "<u>Agreement</u>") is entered into as of February 8, 2019 (the "<u>Effective Date</u>") by and between ORIX GROWTH CAPITAL, LLC, a Delaware limited liability company ("<u>Lender</u>") and SMARTDRIVE SYSTEMS, INC., a Delaware corporation ("<u>Grantor</u>").

#### **RECITALS**

- A. Lender has agreed to make certain advances of money and to extend certain financial accommodations to Grantor in the amounts and manner set forth in that certain Loan and Security Agreement by and between Lender and Grantor dated as of the date hereof (as the same may be amended, modified or supplemented from time to time, the "Loan Agreement"; capitalized terms used herein are used as defined in the Loan Agreement). Lender is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Lender a security interest in all of Grantor's Intellectual Property to secure the obligations of Grantor under the Loan Agreement.
- B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Lender a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral. The Collateral includes without limitation all Intellectual Property (including without limitation the Intellectual Property described herein).

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

#### **AGREEMENT**

- 1. To further evidence the security interest granted under the Loan Agreement, Grantor grants and pledges to Lender a security interest in all of Grantor's right, title and interest in, to and under its Intellectual Property (including without limitation those copyrights, patents, trademarks and mask works listed on Schedules A, B and C hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions, continuations, renewals, extensions and continuations-in-part thereof. Notwithstanding the foregoing, the Collateral shall not include "intent-to-use" trademarks at all times prior to the first use thereof, whether by the actual use thereof in commerce, the recording of a statement of use with the United States Patent and Trademark Office or otherwise, but only to the extent the granting of a security interest in such "intent-to-use" trademarks would be contrary to applicable law.
- 2. Grantor represents and warrants that as of the Effective Date (i) listed on <u>Schedule A</u> are all copyrights, software, computer programs, mask works, and other works of authorship owned or controlled by Grantor which are registered with the United States Copyright Office, (ii) listed on <u>Schedule B</u> hereto are all trademark registrations and pending registrations owned or controlled by Grantor, and (iii) listed on Schedule C are all patents and patent applications owned or controlled by Grantor.
- 3. Grantor shall not, hereafter, register any mask works, software, computer programs or other works of authorship subject to United States copyright protection with the United States Copyright Office without first complying with the following: (i) providing the Lender with at least five (5) days prior written notice thereof, (ii) providing Lender with a copy of the application for any such registration and (iii) executing and filing such other instruments, and taking such further actions, as the Lender may reasonably request from time to time to perfect or continue the perfection of Lender's interest in the Collateral, including without limitation the filing with the United States Copyright Office, simultaneously with the filing by Grantor of the application for any such registration, of a copy of this Agreement or a Supplement hereto in form acceptable to the Lender identifying the mask works, software, computer programs or other works of authorship being registered and confirming the grant of

a security interest therein in favor of Lender.

- 4. The security interest granted herein is granted in conjunction with the security interest granted to the Lender under the Loan Agreement. The rights and remedies of the Lender with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to the Lender as a matter of law or equity. Each right, power and remedy of the Lender provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity, shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein, and the exercise by Lender of any one or more of the rights, powers or remedies provided for in this Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Lender, of any or all other rights, powers or remedies.
- 5. This Agreement may not be modified or amended, nor may any rights hereunder be waived, except in a writing signed by the parties hereto. This Agreement and all acts, transactions, disputes and controversies arising hereunder or relating hereto, and all rights and obligations of the Lender and the Grantor, shall be governed by, and construed in accordance with, the internal laws of the State of New York without regard to conflict of laws principles, provided that the Lender shall retain all rights arising under Federal law.

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IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address of Grantor:

4790 Eastgate Mall, Suite 200 San Diego, CA 92121 Attn: Shawn Swaney, CFO SMARTDRIVE SYSTEMS, INC.

Title: Chief Financial Officer

Address of Lender:

1717 Main Street, Suite 1100 Dallas, TX 75201 Attn: General Counsel LENDER:

ORIX GROWTH GAPITAL, LLC

Name: Mark Campbell

Title: Authorized Signatory

# SCHEDULE A

COPYRIGHTS NONE.

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# SCHEDULE B

## TRADEMARKS

Mark	Filing Date	Appln. No.	Reg. No.	Reg. Date	Registrant/Owner
SMARTRECORDER	9/17/2018	88120392			SmartDrive Systems, Inc.
SMARTSENSE	1/16/2018	87756944			SmartDrive Systems, Inc.
SMARTDRIVE	9/12/2017	87604924			SmartDrive Systems, Inc.
SMARTDRIVE SMARTIQ	12/28/2015	86858929	5341339	11/21/2017	SmartDrive Systems, Inc.
SMARTDRIVE	10/21/2005	78738475	3819803	7/13/2010	SmartDrive Systems, Inc.
SMARTDRIVE	9/12/2008	77569029	4154356	6/5/2012	SmartDrive Systems, Inc.
SMARTDRIVE	9/12/2008	77569039	3823581	7/27/2010	SmartDrive Systems, Inc.

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# SCHEDULE C

## PATENTS

## REGISTERED PATENTS

TITLE	APPLN. NO.	FILING DATE	PATENT/P UB. NO.	ISSUE/PUB. DATE	ASSIGNEE
AUTONOMOUS VEHICLE OPERATOR PERFORMANCE TRACKING	15879927	25-JAN-18	10106174	23-OCT-18	SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR USING ON-BOARD RESOURCES OF INDIVIDUAL VEHICLES IN A FLEET OF VEHICLES AS A DISTRIBUTED DATA CENTER	15958636	20-APR-18	10102691	16-OCT-18	SmartDrive Systems, Inc.
MEASURING OPERATOR READINESS AND READINESS TESTING TRIGGERING IN AN AUTONOMOUS VEHICLE	15782140	12-OCT-17	10082790	25-SEP-18	SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR USING A DISTRIBUTED DATA CENTER TO CREATE MAP DATA	15958659	20-APR-18	10062281	28-AUG-18	SmartDrive Systems, Inc.
POWER MANAGEMENT SYSTEMS FOR AUTOMOTIVE VIDEO EVENT RECORDERS	15370707	6-DEC-16	10053032	21-AUG-18	SmartDrive Systems, Inc.
VEHICLE EVENT PLAYBACK APPARATUS AND METHODS	15357897	21-NOV-16	10019858	10-JUL-18	SmartDrive Systems, Inc.
SYSTEM AND METHOD FOR AGGREGATION DISPLAY AND ANALYSIS OF RAIL VEHICLE EVENT INFORMATION	15346479	8-NOV-16	9981674	29-MAY-18	SmartDrive Systems, Inc.

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TITLE	APPLN. NO.	FILING DATE	PATENT/P UB. NO.	ISSUE/PUB. DATE	ASSIGNEE
CALIBRATING SENSOR UNIT ORIENTATION FOR USE IN A VEHICLE MONITORING SYSTEM	15583854	1-MAY-17	9958473	1-MAY-18	SmartDrive Systems, Inc.
SYSTEM AND METHOD TO DETECT EXECUTION OF DRIVING MANEUVERS	15441070	23-FEB-17	9953470	24-APR-18	SmartDrive Systems, Inc.
VEHICLE EVENT RECORDERS WITH INTEGRATED WEB SERVER	15201385	1-JUL16	9942526	10-APR-18	SmartDrive Systems, Inc.
MEMORY MANAGEMENT IN EVENT RECORDING SYSTEMS	14981384	28-DEC-15	9911253	6-MAR-18	SmartDrive Systems, Inc.
RAIL VEHICLE EVENT TRIGGERING SYSTEM AND METHOD	14975304	18-DEC-15	9908546	6-MAR-18	SmartDrive Systems, Inc.
AUTONOMOUS VEHICLE OPERATOR PERFORMANCE TRACKING	15606760	26-MAY-17	9908535	6-MAR-18	SmartDrive Systems, Inc.
SYSTEM AND METHOD TO DETERMINE RESPONSIVENESS OF A DRIVER OF A VEHICLE TO FEEDBACK REGARDING DRIVING BEHAVIORS	15483825	10-APR-17	10,081,365	25-SEP-18	SmartDrive Systems, Inc.
SYSTEM AND METHOD FOR SYNTHESIZING RAIL VEHICLE EVENT INFORMATION	14592446	8-JAN-15	9902410	27-FEB-18	SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING DATE	PATENT/P UB. NO.	ISSUE/PUB. DATE	ASSIGNEE
MEASURING OPERATOR READINESS AND READINESS TESTING TRIGGERING IN AN AUTONOMOUS VEHICLE	15341714	2-NOV-16	9823657	21-NOV-17	SmartDrive Systems, Inc.
SYSTEMS AND METHOD TO TRIGGER VEHICLE EVENTS BASED ON CONTEXTUAL INFORMATION	15006066	25-JAN-16	9786104	10-OCT-17	SmartDrive Systems, Inc.
VEHICLE OPERATOR PERFORMANCE HISTORY RECORDING, SCORING AND REPORTING SYSTEMS	14529134	30-OCT-14	9761067	12-SEP-17	SmartDrive Systems, Inc.
VEHICLE EXCEPTION EVENT MANAGEMENT SYSTEMS	14516650	17-OCT-14	9738156	22-AUG-17	SmartDrive Systems, Inc.
VEHICLE EVENT PLAYBACK APPARATUS AND METHODS	13571416	10-AUG-12	9728228	8-AUG-17	SmartDrive Systems, Inc.
VEHICLE EVENT RECORDER SYSTEMS AND NETWORKS HAVING INTEGRATED CELLULAR WIRELESS COMMUNICATIONS SYSTEMS	15295932	17-OCT-16	9691195	27-JUN-17	SmartDrive Systems, Inc.
DISTRIBUTED VEHICLE EVENT RECORDER SYSTEMS HAVING A PORTABLE MEMORY DATA TRANSFER SYSTEM	14935247	6-NOV-15	9679424	13-JUN-17	SmartDrive Systems, Inc.
VEHICLE EVENT RECORDING SYSTEM AND METHOD	14676622	1-APR-15	9679420	13-JUN-17	SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING	PATENT/P	ISSUE/PUB.	ASSIGNEE
RAIL VEHICLE EVENT DETECTION AND RECORDING SYSTEM	14525416	DATE 28-OCT14	UB. NO. 9663127	DATE 30-MAY-17	SmartDrive Systems, Inc.
AUTONOMOUS VEHICLE OPERATOR PERFORMANCE TRACKING	15341737	2-NOV-16	9663118	30-MAY-17	SmartDrive Systems, Inc.
SYSTEM AND METHOD TO DETERMINE RESPONSIVENESS OF A DRIVER OF A VEHICLE TO FEEDBACK REGARDING DRIVING BEHAVIORS	15077825	22-MAR-16	9,639,804	2-MAY-17	SmartDrive Systems, Inc.
VEHICLE EVENT RECORDER SYSTEMS	12096591	3-OCT-08	9633318	25-APR-17	SmartDrive Systems, Inc.
VEHICLE FUEL CONSUMPTION MONITOR AND FEEDBACK SYSTEMS	14076511	11-NOV-13	9610955	4-APR-17	SmartDrive Systems, Inc.
SYSTEM AND METHOD TO DETECT EXECUTION OF DRIVING MANEUVERS	14486744	15-SEP-14	9594371	14-MAR-17	SmartDrive Systems, Inc.
VEHICLE EVENT RECORDER SYSTEMS AND NETWORKS HAVING INTEGRATED CELLULAR WIRELESS COMMUNICATIONS SYSTEMS	14929197	30-OCT-15	9566910	14-FEB-17	SmartDrive Systems, Inc.
POWER MANAGEMENT SYSTEMS FOR AUTOMOTIVE VIDEO EVENT RECORDERS	14177047	10-FEB-14	9554080	24-JAN-17	SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING DATE	PATENT/P UB. NO.	ISSUE/PUB. DATE	ASSIGNEE
VEHICLE EVENT RECORDER SYSTEMS AND NETWORKS HAVING INTEGRATED CELLULAR WIRELESS COMMUNICATIONS SYSTEMS	14798454	13-JUL-15	9545881	17-JAN-17	SmartDrive Systems, Inc.
VEHICLE EVENT PLAYBACK APPARATUS AND METHODS	14055833	16-OCT-13	9501878	22-NOV-16	SmartDrive Systems, Inc.
SYSTEM AND METHOD FOR AGGREGATION DISPLAY AND ANALYSIS OF RAIL VEHICLE EVENT INFORMATION	14592245	8-JAN-15	9487222	8-NOV-16	SmartDrive Systems, Inc.
VEHICLE EVENT RECORDER SYSTEMS AND NETWORKS HAVING INTEGRATED CELLULAR WIRELESS COMMUNICATIONS SYSTEMS	14944037	17-NOV-15	9472029	18-OCT-16	SmartDrive Systems, Inc.
VEHICLE EVENT RECORDERS WITH INTEGRATED WEB SERVER	14634688	27-FEB-15	9402060	26-JUL-16	SmartDrive Systems, Inc.
RAIL VEHICLE EVENT TRIGGERING SYSTEM AND METHOD	14594387	12-JAN-15	9296401	29-MAR-16	SmartDrive Systems, Inc.
MEMORY MANAGEMENT IN EVENT RECORDING SYSTEMS	14531854	3-NOV-14	9226004	29-DEC-15	SmartDrive Systems, Inc.
VEHICLE EVENT RECORDER SYSTEMS AND NETWORKS HAVING INTEGRATED CELLULAR WIRELESS COMMUNICATIONS SYSTEMS	13957810	2-AUG-13	9208129	8-DEC-15	SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING DATE	PATENT/P UB. NO.	ISSUE/PUB. DATE	ASSIGNEE
VEHICLE EVENT RECORDER SYSTEMS AND NETWORKS HAVING INTEGRATED	11377167	16-MAR-06	9201842	1-DEC-15	SmartDrive Systems, Inc.
CELLULAR WIRELESS COMMUNICATIONS SYSTEMS					
DISTRIBUTED VEHICLE EVENT RECORDER SYSTEMS HAVING A PORTABLE MEMORY DATA TRANSFER SYSTEM	14036299	25-SEP-13	9183679	10-NOV-15	SmartDrive Systems, Inc.
VEHICLE EVENT RECORDERS WITH INTEGRATED WEB SERVER	11377164	16-MAR-06	8996240	31-MAR-15	SmartDrive Systems, Inc.
VEHICLE OPERATOR PERFORMANCE HISTORY RECORDING, SCORING AND REPORTING SYSTEMS	11593659	7-NOV-06	8989959	24-MAR-15	SmartDrive Systems, Inc.
SYSTEM AND METHOD TO DETECT EXECUTION OF DRIVING MANEUVERS	14186416	21-FEB-14	8892310	18-NOV-14	SmartDrive Systems, Inc.
MEMORY MANAGEMENT IN EVENT RECORDING SYSTEMS	13734800	4-JAN-13	8880279	4-NOV-14	SmartDrive Systems, Inc.
VEHICLE EXCEPTION EVENT MANAGEMENT SYSTEMS	11595015	9-NOV-06	8868288	21-OCT-14	SmartDrive Systems, Inc.
POWER MANAGEMENT SYSTEMS FOR AUTOMOTIVE VIDEO EVENT RECORDERS	11593682	7-NOV-06	8649933	11-FEB-14	SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING	PATENT/P	ISSUE/PUB.	ASSIGNEE
DICTRIBUTED	12520212	DATE	UB. NO.	DATE	C
DISTRIBUTED	13539312	30-JUN-12	8571755	29-OCT-13	SmartDrive
VEHICLE EVENT					Systems, Inc.
RECORDER					
SYSTEMS HAVING					
A PORTABLE					
MEMORY DATA					
TRANSFER					
SYSTEM					
MEMORY	12096592	3-OCT-08	8374746	12-FEB-13	SmartDrive
MANAGEMENT IN					Systems, Inc.
EVENT					
RECORDING					
SYSTEMS					
DISTRIBUTED	11800876	8-MAY-07	8239092	7-AUG-12	SmartDrive
VEHICLE EVENT					Systems, Inc.
RECORDER					J
SYSTEMS HAVING					
A PORTABLE					
MEMORY DATA					
TRANSFER					
SYSTEM					
DISCRETIZATION	11637754	13-DEC-06	8139820	20-MAR-12	SmartDrive
FACILITIES FOR	11037734	13-DEC-00	0137620	20-WIAIC-12	Systems, Inc.
VEHICLE EVENT					Systems, me.
DATA RECORDERS					
	11296906	8-DEC-05	2007013607	14-JUN-07	SmartDrive
VEHICLE EVENT	11296906	8-DEC-03	8	14-JUN-0/	
RECORDER SYSTEMS			8		Systems, Inc.
1 5 Y 5 I E W 5					
	14540025	12 27077 14	2016014007	10 3 5 4 3 7 1 6	C .D .
SYSTEM AND	14540825	13-NOV-14	2016014087	19-MAY-16	SmartDrive
SYSTEM AND METHOD FOR	14540825	13-NOV-14	2016014087 2	19-MAY-16	SmartDrive Systems, Inc.
SYSTEM AND METHOD FOR DETECTING A	14540825	13-NOV-14		19-MAY-16	
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT	14540825	13-NOV-14		19-MAY-16	
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING	14540825	13-NOV-14		19-MAY-16	
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA			2		Systems, Inc.
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND	14540825 15151877	13-NOV-14 11-MAY-16	2 2017033039	19-MAY-16 16-NOV-17	Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA			2		Systems, Inc.
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND			2 2017033039		Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR			2 2017033039		Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT			2 2017033039		Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING			2 2017033039		Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT			2 2017033039		Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION			2 2017033039		Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT			2 2017033039		Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE	15151877	11-MAY-16	2017033039	16-NOV-17	Systems, Inc.  SmartDrive Systems, Inc.
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE SYSTEM AND	15151877	11-MAY-16	2 2017033039 7 2017020033	16-NOV-17	Systems, Inc.  SmartDrive Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE SYSTEM AND METHOD TO	15151877	11-MAY-16	2 2017033039 7 2017020033	16-NOV-17	Systems, Inc.  SmartDrive Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE SYSTEM AND METHOD TO DETECT	15151877	11-MAY-16	2 2017033039 7 2017020033	16-NOV-17	Systems, Inc.  SmartDrive Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE SYSTEM AND METHOD TO DETECT EXECUTION OF DRIVING	15151877	11-MAY-16	2 2017033039 7 2017020033	16-NOV-17	Systems, Inc.  SmartDrive Systems, Inc.  SmartDrive
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE SYSTEM AND METHOD TO DETECT EXECUTION OF DRIVING MANEUVERS	15151877 15458610	11-MAY-16	2 2017033039 7 2017020033 3	16-NOV-17	Systems, Inc.  SmartDrive Systems, Inc.  SmartDrive Systems, Inc.
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE SYSTEM AND METHOD TO DETECT EXECUTION OF DRIVING MANEUVERS VEHICLE EVENT	15151877	11-MAY-16	2 2017033039 7 2017020033 3	16-NOV-17	Systems, Inc.  SmartDrive Systems, Inc.  SmartDrive Systems, Inc.
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE SYSTEM AND METHOD TO DETECT EXECUTION OF DRIVING MANEUVERS VEHICLE EVENT RECORDING	15151877 15458610	11-MAY-16	2 2017033039 7 2017020033 3	16-NOV-17	Systems, Inc.  SmartDrive Systems, Inc.  SmartDrive Systems, Inc.
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE SYSTEM AND METHOD TO DETECT EXECUTION OF DRIVING MANEUVERS VEHICLE EVENT	15151877 15458610	11-MAY-16	2 2017033039 7 2017020033 3	16-NOV-17	Systems, Inc.  SmartDrive Systems, Inc.  SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING DATE	PATENT/P UB. NO.	ISSUE/PUB. DATE	ASSIGNEE
VEHICLE OPERATOR PERFORMANCE HISTORY RECORDING, SCORING AND REPORTING	15658136	24-JUL-17	2017032349	17-NOV-17	SmartDrive Systems, Inc.
SYSTEMS VEHICLE EXCEPTION EVENT MANAGEMENT SYSTEMS	15674915	11-AUG-17	2017036170	21-DEC-17	SmartDrive Systems, Inc.
SYSTEMS AND METHOD TO TRIGGER VEHICLE EVENTS BASED ON CONTEXTUAL INFORMATION	15727227	06-OCT-17	2018003322	01-FEB-18	SmartDrive Systems, Inc.
MEASURING OPERATOR READINESS AND READINESS TESTING TRIGGERING IN AN AUTONOMOUS VEHICLE	16138588	21-SEP-18	2019/00258 27	24-JAN-19	SmartDrive Systems, Inc.
SYSTEM AND METHOD TO DETERMINE RESPONSIVENESS OF A DRIVER OF A VEHICLE TO FEEDBACK REGARDING DRIVING BEHAVIORS	16/138,666	21-SEP-18	2019002327	24-JAN-19	SmartDrive Systems, Inc.
VEHICLE FUEL CONSUMPTION MONITOR AND FEEDBACK SYSTEMS	15478019	3-APR-17			SmartDrive Systems, Inc.
RAIL VEHICLE EVENT DETECTION AND RECORDING SYSTEM	15486951	13-APR-17			SmartDrive Systems, Inc.
DISTRIBUTED VEHICLE EVENT RECORDER SYSTEMS HAVING A PORTABLE MEMORY DATA TRANSFER SYSTEM	15592009	10-MAY-17			SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING DATE	PATENT/P UB. NO.	ISSUE/PUB. DATE	ASSIGNEE
SYSTEM AND METHOD TO DETECT EXECUTION OF DRIVING MANEUVERS	15879772	25-JAN-18	2018016589	14-JUN-18	SmartDrive Systems, Inc.
VEHICLE EVENT RECORDERS WITH INTEGRATED WEB SERVER	15881518	26-JAN-18	2018015267	31-MAY-18	SmartDrive Systems, Inc.
CALIBRATING SENSOR UNIT ORIENTATION FOR USE IN A VEHICLE MONITORING SYSTEM	15906977	27-FEB-18	2018031386 8	1-NOV-18	SmartDrive Systems, Inc.
VEHICLE EVENT PLAYBACK APPARATUS AND METHODS	15969614	2-MAY-18	2018024747	30-AUG-18	SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR COMPARING DRIVING PERFORMANCE FOR SIMULATED DRIVING	16025799	2-JUL-18			SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR GENERATING AND PROVIDING TIMELY VEHICLE EVENT INFORMATION	16025813	2-JUL-18			SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR GENERATING DATA DESCRIBING PHYSICAL SURROUNDINGS OF A VEHICLE	16025852	2-JUL-18			SmartDrive Systems, Inc.
POWER MANAGEMENT SYSTEMS FOR AUTOMOTIVE VIDEO EVENT RECORDERS	16034185	12-JUL-18	2018031935	8-NOV-18	SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR USING A DISTRIBUTED DATA CENTER TO CREATE MAP DATA	16049389	30-JUL-2018			SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING DATE	PATENT/P UB. NO.	ISSUE/PUB. DATE	ASSIGNEE
SYSTEMS AND METHODS FOR QUERYING FLEET INFORMATION STORED IN A DISTRIBUTED DATA CENTER	16058591	8-AUG-18	CB. NO.	DATE	SmartDrive Systems, Inc.
MEASURING OPERATOR READINESS AND READINESS TESTING TRIGGERING IN AN AUTONOMOUS VEHICLE	16138588	21-SEP-18			SmartDrive Systems, Inc.
SYSTEM AND METHOD TO DETERMINE RESPONSIVENESS OF A DRIVER OF A VEHICLE TO FEEDBACK REGARDING DRIVING BEHAVIORS	16138666	21-SEP18			SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR USING ON-BOARD RESOURCES OF INDIVIDUAL VEHICLES IN A FLEET OF VEHICLES AS A DISTRIBUTED DATA CENTER	16158124	11-OCT-18			SmartDrive Systems, Inc.
AUTONOMOUS VEHICLE OPERATOR PERFORMANCE TRACKING	16160451	15-OCT-18			SmartDrive Systems, Inc.
VEHICLE EVENT RECORDER SYSTEMS	PCTUS2006047042	8-DEC-06			SmartDrive Systems, Inc.
VEHICLE EVENT RECORDER SYSTEMS AND NETWORKS HAVING INTEGRATED CELLULAR WIRELESS COMMUNICATION SYSTEMS	PCTUS2007006265	12-MAR-07			SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING DATE	PATENT/P UB. NO.	ISSUE/PUB. DATE	ASSIGNEE
VEHICLE EVENT RECORDER SYSTEMS AND NETWORKS HAVING PARALLEL COMMUNICATION LINKS	PCTUS2007006536	14-MAR-07			SmartDrive Systems, Inc.
VEHICLE EVENT RECORDERS WITH INTEGRATED WEB SERVER	PCTUS2007084313	9-NOV-07			SmartDrive Systems, Inc.
MULTI-STAGE MEMORY BUFFER AND AUTOMATIC TRANSFERS IN VEHICLE EVENT RECORDING SYSTEMS	PCTUS2006047029	7-DEC-06			SmartDrive Systems, Inc.
MEMORY MANAGEMENT IN EVENT RECORDING SYSTEMS	PCTUS2006047055	7-DEC-06			SmartDrive Systems, Inc.
VEHICLE EVENT RECORDERS WITH INTEGRATED WEB SERVER	PCTUS2007006404	13-MAR-07			SmartDrive Systems, Inc.
SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA	PCTUS2015060721	13-NOV-15			SmartDrive Systems, Inc.
RAIL VEHICLE EVENT TRIGGERING SYSTEM AND METHOD	PCTUS2015066873	18-DEC-15			SmartDrive Systems, Inc.
SYSTEM AND METHOD FOR SYNTHESIZING RAIL VEHICLE EVENT INFORMATION	PCTUS2016012757	8-JAN-16			SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING DATE	PATENT/P UB. NO.	ISSUE/PUB. DATE	ASSIGNEE
VEHICLE EVENT RECORDING SYSTEM AND METHOD	PCTIB2016051863	1-APR-16			SmartDrive Systems, Inc.
SYSTEMS AND METHOD TO TRIGGER VEHICLE EVENTS BASED ON CONTEXTUAL INFORMATION	PCTIB2017050397	25-JAN-17			SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE	PCTIB2017052710	9-MAY-17			SmartDrive Systems, Inc.
AUTONOMOUS VEHICLE OPERATOR PERFORMANCE TRACKING	PCTIB2017056336	13-OCT-17			SmartDrive Systems, Inc.
MEASURING OPERATOR READINESS AND READINESS TESTING TRIGGERING IN AN AUTONOMOUS VEHICLE	PCTIB2017056337	13-OCT-17			SmartDrive Systems, Inc.
VEHICLE OPERATOR PERFORMANCE HISTORY RECORDING, SCORING AND REPORTING SYSTEMS	PCTUS2007083997	7-NOV-07			SmartDrive Systems, Inc.
POWER MANAGEMENT SYSTEMS FOR AUTOMOTIVE VIDEO EVENT RECORDERS	PCTUS2007083998	7-NOV-07			SmartDrive Systems, Inc.

TITLE	APPLN. NO.	FILING	PATENT/P	ISSUE/PUB.	ASSIGNEE
		DATE	UB. NO.	DATE	
VEHICLE	PCTUS2007084366	9-NOV-07			SmartDrive
EXCEPTION EVENT					Systems, Inc.
MANAGEMENT					
SYSTEMS					

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**RECORDED: 02/12/2019**