PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6749613

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST RELEASE (REEL/FRAME: 053983 0562)

CONVEYING PARTY DATA

Name	Execution Date
CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, AS GRANTEE	06/04/2021

RECEIVING PARTY DATA

Name:	XRS CORPORATION
Street Address:	717 N. HARWOOD STREET, SUITE 1300
City:	DALLAS
State/Country:	TEXAS
Postal Code:	75201

PROPERTY NUMBERS Total: 29

Property Type	Number
Patent Number:	7089322
Patent Number:	6938099
Patent Number:	6947737
Patent Number:	6904363
Patent Number:	7230944
Patent Number:	7068992
Patent Number:	7024199
Patent Number:	7043365
Patent Number:	7136642
Patent Number:	7162238
Patent Number:	7784707
Patent Number:	7401741
Patent Number:	7802729
Patent Number:	8626568
Patent Number:	9014943
Patent Number:	9020733
Patent Number:	9064422
Patent Number:	9390628
Patent Number:	9754499
Patent Number:	9262934

Property Type	Number
Patent Number:	9014906
Patent Number:	10380905
Patent Number:	9633568
Patent Number:	10255575
Patent Number:	10134000
Application Number:	13730206
Application Number:	14061456
Application Number:	16522148
Application Number:	16110926

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: 800-494-5225
Email: ipteam@cogencyglobal.com
Correspondent Name: STEWART WALSH
Address Line 1: 1025 CONNECTICUT AVE NW, SUITE 712
Address Line 2: COGENCY GLOBAL INC.
Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	1392723 PAT 2L B
NAME OF SUBMITTER:	KAREN S. COTTRELL
SIGNATURE:	/Karen S. Cottrell/
DATE SIGNED:	06/08/2021

Total Attachments: 19
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RELEASE OF SECURITY INTEREST IN PATENTS

This Release of Security Interest in Patents (this "Release") is effective as of June 4, 2021 by CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH ("Collateral Agent") in favor of OMNITRACS, LLC, a limited liability company organized under the laws of the State of Delaware ("Omnitracs"), XRS CORPORATION, a Minnesota corporation ("XRS"), ROADNET TECHNOLOGIES, INC., a Delaware corporation ("Roadnet") and SMARTDRIVE SYSTEMS, INC., a Delaware corporation ("SmartDrive" and together with Omnitracs, XRS and Roadnet, "Pledgors"). Capitalized terms used but not otherwise defined herein have the meaning given to them in the Security Agreement (as defined below), or, if not defined therein, in the Credit Agreement (as defined below).

WHEREAS, Omnitracs and Collateral Agent are parties to those certain Second Lien Credit Agreement, dated as of October 1, 2020 (as amended, restated, amended and restated, supplemented, waived, renewed, replaced or otherwise modified from time to time, the "Credit Agreement"), by and among Omnitracs, Omnitracs Holdings, LLC, each of the other Guarantors party thereto, the Lenders from time to time party thereto, and Collateral Agent;

WHEREAS, pursuant to the Credit Agreement, Pledgors executed a Second Lien Security Agreement dated as of October 1, 2020 (as amended, restated, amended and restated, supplemented, waived, renewed, replaced or otherwise modified from time to time, the "Security Agreement") in favor of Collateral Agent;

WHEREAS, pursuant to the Credit Agreement, (a) Omnitracs executed that certain Second Lien Patent Security Agreement dated as of October 1, 2020 (the "Omnitracs Patent Security Agreement") between Omnitracs and Collateral Agent, (b) XRS executed that certain Second Lien Patent Security Agreement dated as of October 1, 2020 (the "XRS Patent Security Agreement") between XRS and Collateral Agent, (c) Roadnet executed that certain Second Lien Patent Security Agreement dated as of October 1, 2020 (the "Roadnet Patent Security Agreement") between Roadnet and Collateral Agent and (d) SmartDrive executed that certain Second Lien Patent Security Agreement dated as of October 1, 2020 between SmartDrive and Collateral Agent (the "SmartDrive Patent Security Agreement" and together with the Omnitracs Patent Security Agreement, XRS Patent Security Agreement and Roadnet Patent Security Agreement the "Patent Security Agreements") whereby each Pledgor granted to Collateral Agent a continuing security interest in all of the Patent Collateral (as such term is defined in the applicable Patent Security Agreement) of such Pledgor, including, without limitation, the patents listed on Exhibit A through D hereto, as security for the payment or performance, as the case may be, in full of the Secured Obligations;

WHEREAS, the Omnitracs Patent Security Agreement, including the patents and patent applications listed on Exhibit A, was recorded with the patent division of the United States Patent and Trademark Office on October 6, 2020 at Reel/Frame 053983/0570;

WHEREAS, the XRS Patent Security Agreement, including the patents and patent applications listed on Exhibit B, was recorded with the patent division of the United States Patent and Trademark Office on October 6, 2020 at Reel/Frame 053983/0562;

WHEREAS, the Roadnet Patent Security Agreement, including the patents and patent applications listed on Exhibit C, was recorded with the patent division of the United States Patent and Trademark Office on October 6, 2020 at Reel/Frame 054252/0542;

WHEREAS, the SmartDrive Patent Security Agreement, including the patents and patent applications listed on Exhibit D, was recorded with the patent division of the United States Patent and Trademark Office on October 6, 2020 at Reel/Frame 054236/0435;

WHEREAS, each Pledgor has requested that the Collateral Agent release its security interest in all right, title and interest in, to and under all of the Patent Collateral.

NOW, THEREFORE, intending to be legally bound hereby and in connection with each Patent Security Agreement, Collateral Agent hereby (i) releases the continuing security interest and continuing lien upon, and terminates its security interest in, and all other rights, title and interest in and to, the Patent Collateral (as defined in each Patent Security Agreement) including, without limitation, the patents listed on Exhibit A through D hereto, without any recourse, representation or warranty, (ii) terminates each Patent Security Agreement, and (iii) re-assigns to Pledgors, any right, title or interest Collateral Agent may have in, to or under the Patent Collateral under the Credit Agreement, the Security Agreement or the Patent Security Agreements, together with the goodwill of the business symbolized thereby, and hereby authorizes Pledgors or Pledgors' authorized representative or designee to record this Release with the United States Patent and Trademark Office as evidence of such release and termination.

This Release shall be governed by, and construed and interpreted in accordance with, the laws of the State of New York.

[Signature Page Follows]

IN WITNESS WHEREOF, Grantee duly executes this Release, which is effective as of the day and year first written above.

CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, AS GRANTEE,

By: _____
Name: William O' Daly

Title: Authorized Signatory

By: _____
Name: Komal Shah

Title: Authorized Signatory

EXHIBIT A

PATENTS

Omnitracs Patent Security Agreement

Reel/Frame 053983/0570

United States Patents:

OWNER	TITLE	PATENT NUMBER
Omnitracs, LLC	Method and apparatus for dynamic address allocation in a wireless communication system	6181931
Omnitracs, LLC	Mounting arrangement for microwave power amplifier	6222741
Omnitracs, LLC	Method and apparatus for automatic event detection in a wireless communication system	6124810
Omnitracs, LLC	System and method for indicating the improper removal of a storage medium before completion of a write cycle	6772234
Omnitracs, LLC	Paperless log system and method	6317668
Omnitracs, LLC	Paperless log system and method	6526341
Omnitracs, LLC	Cargo sensing system and method	6437702
Omnitracs, LLC	Lock and release mechanism for a wireless device	7072689
Omnitracs, LLC	Battery charging system employing multi-mode low power fast charge process	6215282
Omnitracs, LLC	Battery monitoring system with low power and end-of-life messaging and shutdown	7024321
Omnitracs, LLC	Electronic locking device and method of operating same	6778068
Omnitracs, LLC	Method and apparatus for providing a proof of delivery verification for freight transportation systems	6922133
Omnitracs, LLC	Method and apparatus for high density message coding	6907253
Omnitracs, LLC	Paperless log system and method	6421590
Omnitracs, LLC	Concave reflector with phase shifted and selectively focused output energy	6512495
Omnitracs, LLC	Mobile reporting module employing timing and message consolidation to economize transmissions	6990336
Omnitracs, LLC	Method and apparatus for providing virtual capacity to a provider of services	7212984
Omnitracs, LLC	System for providing online service reports	7765297

OWNER	TITLE	PATENT NUMBER
Omnitracs, LLC	Auto-fill message fields in a communication terminal	6925308
Omnitracs, LLC	Multi-resolution frequency tracking loop system and method	7751508
Omnitracs, LLC	Method and apparatus for determining propagation delays for use in wide area networks	7363009
Omnitracs, LLC	Method and apparatus for detecting communication network delays	6810235
Omnitracs, LLC	Method and apparatus for providing a personal security system	7561028
Omnitracs, LLC	System for providing a virtual vehicle boundary	7327250
Omnitracs, LLC	Method and apparatus for providing a hazardous material alert	8115608
Omnitracs, LLC	Vehicle security system and method	8660709
Omnitracs, LLC	Method and apparatus for controlling a valve during a hazard event	7126464
Omnitracs, LLC	Asset apparency method and apparatus	8064841
Omnitracs, LLC	Methods and apparatus for detecting local maximums in a two-dimensional data set	7463899
Omnitracs, LLC	Self-correcting mobile antenna control system and method	6972724
Omnitracs, LLC	System for message delivery to field personnel	7990964
Omnitracs, LLC	Method and apparatus for detecting cargo state in a delivery vehicle	7339460
Omnitracs, LLC	System for providing dynamic group and service assignments	8706095
Omnitracs, LLC	Method and apparatus for providing a proof of delivery verification for freight transportation systems	7242279
Omnitracs, LLC	GPS radome-mounted antenna assembly	7336241
Omnitracs, LLC	Wireless system for providing critical sensor alerts for equipment	8559937
Omnitracs, LLC	Wireless system for automatic ordering of maintenance parts for equipment	9015059
Omnitracs, LLC	Battery management system for determining battery charge sufficiency for a task	7595642
Omnitracs, LLC	Method and apparatus to indicate communication is wanted or waiting	7844258
Omnitracs, LLC	Method and apparatus for interlocking communication and tracking applications in a wireless communication device	7853271
Omnitracs, LLC	Navigation data quality feedback	8024114
Omnitracs, LLC	Method and apparatus for enhanced privacy while tracking mobile workers	8892116
Omnitracs, LLC	Method and apparatus for asset geofencing	8593276

OWNER	TITLE	PATENT NUMBER
Omnitracs, LLC	Apparatus and methods for speed management and control	7660658
Omnitracs, LLC	Methods and apparatus for providing hours of service management	7616105
Omnitracs, LLC	System for providing a virtual vehicle boundary	7612668
Omnitracs, LLC	Field disturbance sensor utilizing leaky or radiating coaxial cable for a conformable antenna pattern	7714719
Omnitracs, LLC	Vehicle audio integrator	8275307
Omnitracs, LLC	Method and apparatus for providing virtual capacity to a provider of services	7711591
Omnitracs, LLC	Method and apparatus for obtaining weather information from road-going vehicles	7999702
Omnitracs, LLC	Device for sensing tractor trailer connection	7619506
Omnitracs, LLC	Compact display unit	8140137
Omnitracs, LLC	Driver notification	9628968
Omnitracs, LLC	Critical event reporting	7725216
Omnitracs, LLC	Vehicle identification system	7894826
Omnitracs, LLC	Method for determining the null point of a gyroscope	8286463
Omnitracs, LLC	Interactive control of access to services and capabilities of a mobile device	8150371
Omnitracs, LLC	Establishing and securing a unique wireless RF link between a tractor and a trailer using a wired connection	7760077
Omnitracs, LLC	Data rate selection in a constant power variable data rate two-way mobile satellite communication link	7929482
Omnitracs, LLC	Wireless device caching data proxy	8787880
Omnitracs, LLC	Reefer fuel tax reporting for the transport industry	9305405
Omnitracs, LLC	Method and apparatus for separable voice billing for business and personal airtime use	8644798
Omnitracs, LLC	Apparatus and method for measuring operational data for equipment using sensor breach durations	9235938
Omnitracs, LLC	Fluorescent dye to improve primer coverage accuracy for bonding applications	8038815
Omnitracs, LLC	System and methods for remotely upgrading software applications	8170540
Omnitracs, LLC	Mobile wireless medication management system	8538775
Omnitracs, LLC	Routing drivers to trailers effectively	8843312
Omnitracs, LLC	System and method for charging a rechargeable battery	8405361
Omnitracs, LLC	Mobile group data distribution	8005498
Omnitracs, LLC	Systems and methods for automatically searching a database to tune a frequency modulator in a mobile device	8478288

OWNER	TITLE	PATENT NUMBER
Omnitracs, LLC	Systems and methods for automatically tuning a frequency modulator in a mobile device	8027645
Omnitracs, LLC	Method of monitoring canbus information	8751098
Omnitracs, LLC	System and method for sensing cargo loads and trailer movement	8179286
Omnitracs, LLC	Method and apparatus for determining propagation delays for use in wide area networks	8078114
Omnitracs, LLC	Pourover journaling	8700574
Omnitracs, LLC	System for pairing vehicle components	8538838
Omnitracs, LLC	Context aware message presentation system	8805337
Omnitracs, LLC	Digital over-the-air keying system	9165416
Omnitracs, LLC	Method and apparatus for the distribution of configuration data	8856288
Omnitracs, LLC	Ku-band diplexer	8471649
Omnitracs, LLC	Hardware continuity loop for preventing vehicle misappropriation	8508352
Omnitracs, LLC	Ku-band coaxial to microstrip mixed dielectric PCB interface with surface mount diplexer	8736397
Omnitracs, LLC	Systems and methods for determining a speed limit violation	9536426
Omnitracs, LLC	Vehicle security system and method	9002575
Omnitracs, LLC	Wireless provisioning solution for target devices	8331923
Omnitracs, LLC	Method and apparatus for providing navigation support for private premises	8463546
Omnitracs, LLC	Asset apparency method and apparatus	8078117
Omnitracs, LLC	System and method for integrating smartphone technology into a safety management platform to improve driver safety	9688286
Omnitracs, LLC	Critical event reporting	8000843
Omnitracs, LLC	Method and apparatus to indicate communication is wanted or waiting	8874088
Omnitracs, LLC	Method and apparatus for interlocking communication and tracking applications in a wireless communication device	8396488
Omnitracs, LLC	Vehicle identification system	8868099
Omnitracs, LLC	Systems and methods for vehicle monitoring with processing interruption tolerance	8589019
Omnitracs, LLC	Fluorescent dye to improve primer coverage accuracy for bonding applications	8410992
Omnitracs, LLC	Method and apparatus for obtaining weather information from road-going vehicles	9030336
Omnitracs, LLC	Method and apparatus for determining propagation	8463194

OWNER	TITLE	PATENT NUMBER
	delays for use in wide area networks	
Omnitracs, LLC	Solar powered apparatus having a thermally decoupled solar panel for tracking a portable asset	8902590
Omnitracs, LLC	Method and apparatus for providing a hazardous material alert	8427290
Omnitracs, LLC	Interactive control of access to services and capabilities of a mobile device	8359010
Omnitracs, LLC	System and methods for remotely upgrading software applications	8594653
Omnitracs, LLC	System and method for sensing cargo loads and trailer movement	8779948
Omnitracs, LLC	Managing selective access of a user equipment to internet-based services based on transport type	10003652
Omnitracs, LLC	Systems and methods for processing operational gear data of a vehicle	8862315
Omnitracs, LLC	Systems and methods for processing location - and entity-based workflow data	9183273
Omnitracs, LLC	Systems and methods for processing vehicle data to report performance data interchangeably	9262873
Omnitracs, LLC	Method and system for collecting, analyzing and displaying fleet performance data	9189450
Omnitracs, LLC	Systems for and methods of engine derating	8897928
Omnitracs, LLC	Wireless provisioning solution for target devices	8594624
Omnitracs, LLC	System and method for generating real-time alert notifications in an asset tracking system	9147335
Omnitracs, LLC	Systems and methods for performing over-the-air activation while roaming	9713000
Omnitracs, LLC	Off-board hours-of-service (“hos”) processing	9922001
Omnitracs, LLC	System for pairing vehicle components	10242572
Omnitracs, LLC	Flexible time-based aggregated derivations for advanced analytics	9442963
Omnitracs, LLC	Systems and methods for vehicle monitoring with processing interruption tolerance	9008893
Omnitracs, LLC	Inter-network messaging for mobile computing platforms	10194275
Omnitracs, LLC	Distributed over the air programming	9454358
Omnitracs, LLC	Integration of hours of service and navigation	10415988
Omnitracs, LLC	Driver log analytics system	10504068
Omnitracs, LLC	Advanced warning system	9984573
Omnitracs, LLC	Device communication management in a communication system	10149157
Omnitracs, LLC	Vehicle parking system	9810542

OWNER	TITLE	PATENT NUMBER
Omnitracs, LLC	Tire pressure optimization system	10144253
Omnitracs, LLC	Emergency stopping for autonomous commercial vehicles	10054947
Omnitracs, LLC	Universal mount cargo status sensor device	D503350
Omnitracs, LLC	Driver interface unit (DIU)	D495322
Omnitracs, LLC	CDMA wireless untethered trailer tracking terminal	D548629
Omnitracs, LLC	CDMA wireless untethered trailer tracking terminal	D549116
Omnitracs, LLC	Structural portions of a CDMA wireless untethered trailer tracking terminal	D548630
Omnitracs, LLC	Media display unit	D551665
Omnitracs, LLC	Media display unit	D554636
Omnitracs, LLC	Media display unit	D555649
Omnitracs, LLC	Remote control device	D588554
Omnitracs, LLC	Remote control device	D589461
Omnitracs, LLC	Remote control device	D571306
Omnitracs, LLC	Remote control device	D571307
Omnitracs, LLC	Remote control device	D571308
Omnitracs, LLC	Dual transducer cargo sensor device	D581299
Omnitracs, LLC	Timeline visualizations linked with other visualizations of data in a thin client	8560946
Omnitracs, LLC	Analysis of time-based geospatial mashups using AD HOC visual queries	8230333
Omnitracs, LLC	Platform and method for analyzing real-time position and movement data	8869038
Omnitracs, LLC	Vehicle video recording system with driver privacy	10687030
Omnitracs, LLC	Vehicle and drone management system	10706381
Omnitracs, LLC	Display screen with graphical user interface	D894917
Omnitracs, LLC	Display screen with graphical user interface	D894916
Omnitracs, LLC	Display screen with transitional graphical user interface	D884005
Omnitracs, LLC	Display screen with transitional graphical user interface	D884006
Omnitracs, LLC	Display screen with graphical user interface	D884004
Omnitracs, LLC	Off-board hours-of-service ("HOS") processing	10706125
Omnitracs, LLC	Managing selective access of a user equipment to internet-based services based on transport type	10771561

United States Patent Applications:

OWNER	TITLE	APPLICATION NUMBER
Omnitracs, LLC	Communication mining analytics system	15011239
Omnitracs, LLC	Vehicle driver activity level determinations and analysis in a fleet management system	15416930
Omnitracs, LLC	Automatic truck loading and unloading system	15404003
Omnitracs, LLC	Driver log retention system	15412199
Omnitracs, LLC	Vehicle driver activity level determinations and analysis in a fleet management system	15416930
Omnitracs, LLC	Driving event assessment system	15425419
Omnitracs, LLC	Cost per mile calculation system	15436238
Omnitracs, LLC	Fleet wide video search	16105555
Omnitracs, LLC	Blockchain-based hours-of-service system	16163022
Omnitracs, LLC	System and method for managing movable objects	16273401
Omnitracs, LLC	Vehicle control system based on detention time	16279493
Omnitracs, LLC	Control system for platooning of vehicles	16431347
Omnitracs, LLC	Integration of hours of service and navigation	16533267
Omnitracs, LLC	Techniques for identifying trailers associated with a tractor using wireless signals	16707939

EXHIBIT B

PATENTS

XRS Patent Security Agreement
Reel/Frame 053983/0562

United States Patents:

OWNER	TITLE	PATENT NUMBER
XRS Corporation	System and method of aggregating data from a plurality of data generating machines	7089322
XRS Corporation	Communication system with wireless electronic mail or messaging integrated and/or associated with application program residing on remote computing device	6938099
XRS Corporation	System and method of transmitting data messages between subscriber units communicating with/between complementary/disparate networks	6947737
XRS Corporation	System for local monitoring	6904363
XRS Corporation	System and method of host routing when host computer is within a home network and/or a complementary network	7230944
XRS Corporation	System and method of polling wireless devices having a substantially fixed and/or predesignated geographic location	7068992
XRS Corporation	System and method of querying a device, checking device roaming history and/or obtaining device modem statistics when device is within a home network and/or complementary network	7024199
XRS Corporation	System for local monitoring	7043365
XRS Corporation	System and method of querying a device, checking device roaming history and/or obtaining device modem statistics when device is within a home network and/or a complementary network	7136642
XRS Corporation	System and method of querying a device, checking device roaming history and/or obtaining device modem statistics when device is within a home network and/or a complementary network	7162238
XRS Corporation	Environmental condition monitoring of a container	7784707

OWNER	TITLE	PATENT NUMBER
XRS Corporation	Portable data storage module	7401741
XRS Corporation	Portable data storage module	7802729
XRS Corporation	Fleet vehicle management systems and methods	8626568
XRS Corporation	Transportation management techniques	9014943
XRS Corporation	Vehicle data acquisition for transportation management	9020733
XRS Corporation	Data transmission for transportation management	9064422
XRS Corporation	Vehicle data and driver association for Transportation management	9390628
XRS Corporation	Communication techniques For transportation route modifications	9754499
XRS Corporation	Commercial transportation information presentation techniques	9262934
XRS Corporation	Remote distribution of software updates in a transportation management network	9014906
XRS Corporation	Network communications for transportation management	10380905
XRS Corporation	Vehicle driver evaluation techniques	9633568
XRS Corporation	Fleet vehicle management systems and methods	10255575
XRS Corporation	Fleet vehicle management systems and methods	10134000

United States Patent Applications:

OWNER	TITLE	APPLICATION NUMBER
XRS Corporation	Remote transportation management	13730206
XRS Corporation	Transportation event recorder for vehicle	14061456
XRS Corporation	Network communications for transportation management	16522148
XRS Corporation	Fleet vehicle management systems and methods	16110926

EXHIBIT C

PATENTS

Roadnet Patent Security Agreement
Reel/Frame 054252/0542

United States Patents:

OWNER	TITLE	PATENT NUMBER
Roadnet Technologies, Inc.	Real-time delivery feasibility analysis systems and methods.	6701299
Roadnet Technologies, Inc.	Systems and methods for scheduling reoccurring deliveries and pickups.	6985871
Roadnet Technologies, Inc.	Systems and methods for scheduling reoccurring deliveries and pickups.	7860738
Roadnet Technologies, Inc.	Systems and methods for routing and scheduling.	9135575
Roadnet Technologies, Inc.	Rush hour modeling for routing and scheduling.	8433511
Roadnet Technologies, Inc.	Rush hour modeling for routing and scheduling.	8768605

United States Patent Applications:

None.

EXHIBIT D

PATENTS

SmartDrive Patent Security Agreement

Reel/Frame 054236/0435

OWNER	TITLE	PATENT NUMBER
SmartDrive Systems, Inc.	Systems and methods for managing speed thresholds for vehicles	10683017
SmartDrive Systems, Inc.	Systems and methods for detecting a sitting duck scenario	10684390
SmartDrive Systems, Inc.	Vehicle exception event management systems	20190389307
SmartDrive Systems, Inc.	Autonomous vehicle operator performance tracking	10589750
SmartDrive Systems, Inc.	System and method to detect execution of driving maneuvers	10497187
SmartDrive Systems, Inc.	Autonomous vehicle operator performance tracking	10315666
SmartDrive Systems, Inc.	Systems and methods for using on-board resources of individual vehicles in a fleet of vehicles as a distributed data center	10482686
SmartDrive Systems, Inc.	Measuring operator readiness and readiness testing triggering in an autonomous vehicle	10705523
SmartDrive Systems, Inc.	Systems and methods for using a distributed data center to create map data	20190325745
SmartDrive Systems, Inc.	Power management systems for automotive video event recorders	10682969
SmartDrive Systems, Inc.	Vehicle event playback apparatus and methods	20180247471
SmartDrive Systems, Inc.	Systems and methods for using a distributed data center to create map data	10062281
SmartDrive Systems, Inc.	Systems and methods for using on-board resources of individual vehicles in a fleet of vehicles as a distributed data center	10102691
SmartDrive Systems, Inc.	Calibrating sensor unit orientation for use in a vehicle monitoring system	10712362
SmartDrive Systems, Inc.	Vehicle event recorders with	10404951

OWNER	TITLE	PATENT NUMBER
	integrated web server	
SmartDrive Systems, Inc.	Autonomous vehicle operator performance tracking	10106174
SmartDrive Systems, Inc.	System and method to detect execution of driving maneuvers	10249105
SmartDrive Systems, Inc.	Measuring operator readiness and readiness testing triggering in an autonomous vehicle	10082790
SmartDrive Systems, Inc.	Vehicle exception event management systems	10471828
SmartDrive Systems, Inc.	Vehicle operator performance history recording, scoring and reporting systems	10339732
SmartDrive Systems, Inc.	Vehicle event recording system and method	10360739
SmartDrive Systems, Inc.	Autonomous vehicle operator performance tracking	9908535
SmartDrive Systems, Inc.	Distributed vehicle event recorder systems having a portable memory data transfer system	10476933
SmartDrive Systems, Inc.	Calibrating sensor unit orientation for use in a vehicle monitoring system	9958473
SmartDrive Systems, Inc.	Rail vehicle event detection and recording system	10358154
SmartDrive Systems, Inc.	System and method to determine responsiveness of a driver of a vehicle to feedback regarding driving behaviors	10081365
SmartDrive Systems, Inc.	Vehicle fuel consumption monitor and feedback systems	10246104
SmartDrive Systems, Inc.	System and method to detect execution of driving maneuvers	10706648
SmartDrive Systems, Inc.	System and method to detect execution of driving maneuvers	9953470
SmartDrive Systems, Inc.	Power management systems for automotive video event recorders	10053032
SmartDrive Systems, Inc.	Vehicle event playback apparatus and methods	10019858
SmartDrive Systems, Inc.	System and method for aggregation display and analysis of rail vehicle event information	9981674
SmartDrive Systems, Inc.	Autonomous vehicle operator performance tracking	9663118
SmartDrive Systems, Inc.	Measuring operator readiness and readiness testing triggering in an autonomous vehicle	9823657

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SmartDrive Systems, Inc.	Vehicle event recorder systems and networks having integrated cellular wireless communications systems	9691195
SmartDrive Systems, Inc.	Vehicle event recorders with integrated web server	9942526
SmartDrive Systems, Inc.	Systems and methods for capturing and offloading different information based on event trigger type	20170330397
SmartDrive Systems, Inc.	System and method to determine responsiveness of a driver of a vehicle to feedback regarding driving behaviors	9639804
SmartDrive Systems, Inc.	Systems and method to trigger vehicle events based on contextual information	9786104
SmartDrive Systems, Inc.	Memory management in event recording systems	9911253
SmartDrive Systems, Inc.	Rail vehicle event triggering system and method	9908546
SmartDrive Systems, Inc.	Vehicle event recorder systems and networks having integrated cellular wireless communications systems	9472029
SmartDrive Systems, Inc.	Distributed vehicle event recorder systems having a portable memory data transfer system	9679424
SmartDrive Systems, Inc.	Vehicle event recorder systems and networks having integrated cellular wireless communications systems	9566910
SmartDrive Systems, Inc.	Vehicle event recorder systems and networks having integrated cellular wireless communications systems	9545881
SmartDrive Systems, Inc.	Vehicle event recording system and method	9679420
SmartDrive Systems, Inc.	Vehicle event recorders with integrated web server	9402060
SmartDrive Systems, Inc.	Rail vehicle event triggering system method	9296401
SmartDrive Systems, Inc.	System and method for synthesizing rail vehicle event information	9902410
SmartDrive Systems, Inc.	System and method for aggregation display and analysis of rail vehicle event information	9487222
SmartDrive Systems, Inc.	Memory management in event recording systems	9226004
SmartDrive Systems, Inc.	Vehicle operator performance history recording, scoring and reporting	9761067

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	systems	
SmartDrive Systems, Inc.	Rail vehicle event detection and recording system	9663127
SmartDrive Systems, Inc.	Vehicle exception event management systems	9738156
SmartDrive Systems, Inc.	System and method to detect execution of driving maneuvers	9594371
SmartDrive Systems, Inc.	System and method to detect execution of driving maneuvers	8892310
SmartDrive Systems, Inc.	Power management systems for automotive video event recorders	9554080
SmartDrive Systems, Inc.	Vehicle fuel consumption monitor and feedback systems	9610955
SmartDrive Systems, Inc.	Vehicle event playback apparatus and methods	9501878
SmartDrive Systems, Inc.	Distributed vehicle event recorder systems having a portable memory data transfer system	9183679
SmartDrive Systems, Inc.	Vehicle event recorder systems and networks having integrated cellular wireless communications systems	9208129
SmartDrive Systems, Inc.	Memory management in event recording systems	8880279
SmartDrive Systems, Inc.	Vehicle event playback apparatus and methods	9728228
SmartDrive Systems, Inc.	Distributed vehicle event recorder systems having a portable memory data transfer system	8571755
SmartDrive Systems, Inc.	Memory management in event recording systems	8374746
SmartDrive Systems, Inc.	Vehicle event recorder systems	9633318
SmartDrive Systems, Inc.	Distributed vehicle event recorder systems having a portable memory data transfer system	8239092
SmartDrive Systems, Inc.	Discretization facilities for vehicle event data recorders	8139820
SmartDrive Systems, Inc.	Vehicle exception event management systems	8868288
SmartDrive Systems, Inc.	Power management systems for automotive video event recorders	8649933
SmartDrive Systems, Inc.	Vehicle operator performance history recording, scoring and reporting systems	8989959
SmartDrive Systems, Inc.	Vehicle event recorder systems and networks having integrated cellular wireless communications systems	9201842

OWNER	TITLE	PATENT NUMBER
SmartDrive Systems, Inc.	Vehicle event recorders with integrated web server	8996240
SmartDrive Systems, Inc.	Vehicle event recorder systems	20070136078

United States Patent Applications:

OWNER	TITLE	APPLICATION NUMBER
SmartDrive Systems, Inc.	[Unpublished]	16899377
SmartDrive Systems, Inc.	[Unpublished]	16891782
SmartDrive Systems, Inc.	[Unpublished]	16891535
SmartDrive Systems, Inc.	[Unpublished]	16891486
SmartDrive Systems, Inc.	Autonomous vehicle operator performance tracking	16818500
SmartDrive Systems, Inc.	System and method to detect execution of driving maneuvers	16682894
SmartDrive Systems, Inc.	Systems and methods for using on-board resources of individual vehicles in a fleet of vehicles as a distributed data center	16676133
SmartDrive Systems, Inc.	Lane-specific recommendations	16430262
SmartDrive Systems, Inc.	Vehicle event recording system and method	16426386
SmartDrive Systems, Inc.	Systems and methods for using risk profiles for creating and deploying new vehicle event definitions to a fleet of vehicles	16400903
SmartDrive Systems, Inc.	Systems and methods for using risk profiles based on previously detected vehicle events to quantify performance of vehicle operators	16400874
SmartDrive Systems, Inc.	Systems and methods for creating and using risk profiles for fleet management of a fleet of vehicles	16400841
SmartDrive Systems, Inc.	Systems and methods for verifying whether vehicle operators are paying attention	16400806
SmartDrive Systems, Inc.	Vehicle fuel consumption monitor and feedback systems	16280922
SmartDrive Systems, Inc.	Systems and methods for determining and using posted speed limits for vehicles	16279859
SmartDrive Systems, Inc.	System and method to determine responsiveness of a driver of a vehicle to feedback regarding driving	16138666

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	behaviors	
SmartDrive Systems, Inc.	Systems and methods for querying fleet information stored in a distributed data	16058591
SmartDrive Systems, Inc.	Systems and methods for generating data describing physical surroundings of a ve...	16025852
SmartDrive Systems, Inc.	Systems and methods for generating and providing timely vehicle event information	16025813
SmartDrive Systems, Inc.	Systems and methods for comparing driving performance for simulated driving	16025799
SmartDrive Systems, Inc.	Systems and method to trigger vehicle events based on contextual information	15727227
SmartDrive Systems, Inc.	System and method for detecting a vehicle event and generating review criteria	14540825