

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6764249

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECOND LIEN PATENT SECURITY AGREEMENT
SEQUENCE:	2
CONVEYING PARTY DATA	
Name	Execution Date
OMNITRACS, LLC	06/04/2021
ROADNET TECHNOLOGIES, INC.	06/04/2021
SMARTDRIVE SYSTEMS, INC.	06/04/2021
XRS CORPORATION	06/04/2021
HYPERQUEST, LLC (F/K/A HYPERQUEST, INC.)	06/04/2021
AUDATEX NORTH AMERICA, LLC (F/K/A AUDATEX NORTH AMERICA, INC.)	06/04/2021
CLAIMS SERVICES GROUP, LLC	06/04/2021
DMEAUTOMOTIVE LLC	06/04/2021
ENSERVIO, LLC (F/K/A ENSERVIO, INC.)	06/04/2021
MOBILE PRODUCTIVITY, LLC	06/04/2021
SEE PROGRESS, LLC (F/K/A SEE PROGRESS, INC.)	06/04/2021
SOLERA HOLDINGS, LLC (F/K/A SOLERA HOLDINGS, INC.)	06/04/2021
EDRIVING FLEET LLC	06/04/2021
FINANCE EXPRESS LLC	06/04/2021
RECEIVING PARTY DATA	
Name:	ALTER DOMUS (US) LLC, AS COLLATERAL AGENT
Street Address:	225 WEST WASHINGTON STREET, 9TH FLOOR
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60606
PROPERTY NUMBERS Total: 336	
Property Type	Number
Patent Number:	7595642
Patent Number:	9984573
Patent Number:	8230333
Patent Number:	9235938
Patent Number:	7660658
Patent Number:	8078117

PATENT

Property Type	Number
Patent Number:	8064841
Patent Number:	6925308
Patent Number:	10815080
Patent Number:	8140137
Patent Number:	6512495
Patent Number:	8805337
Patent Number:	8000843
Patent Number:	7725216
Patent Number:	7929482
Patent Number:	10149157
Patent Number:	7619506
Patent Number:	9165416
Patent Number:	D884004
Patent Number:	D894916
Patent Number:	D894917
Patent Number:	D884005
Patent Number:	D884006
Patent Number:	9454358
Patent Number:	10504068
Patent Number:	9628968
Patent Number:	10957130
Patent Number:	D581299
Patent Number:	10054947
Patent Number:	7760077
Patent Number:	7714719
Patent Number:	9442963
Patent Number:	8038815
Patent Number:	8410992
Patent Number:	7336241
Patent Number:	8508352
Patent Number:	10415988
Patent Number:	8359010
Patent Number:	8150371
Patent Number:	10194275
Patent Number:	8736397
Patent Number:	8471649
Patent Number:	10003652
Patent Number:	10771561

Property Type	Number
Patent Number:	D551665
Patent Number:	D554636
Patent Number:	D555649
Patent Number:	8593276
Patent Number:	7126464
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Property Type	Number
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Property Type	Number
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Patent Number:	9902410
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Patent Number:	9633318
Patent Number:	8374746
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Property Type	Number
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Patent Number:	10796504
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Patent Number:	10106174
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Patent Number:	8073718
Patent Number:	8255205
Patent Number:	8346577
Patent Number:	8447632
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Application Number:	14144869
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Application Number:	16900559
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Application Number:	14540825
Application Number:	16025852
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Property Type	Number
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Application Number:	17175132
Application Number:	17235877
Application Number:	16899377
Application Number:	17062261
Application Number:	17079902
Application Number:	17079775
Application Number:	17080164
Application Number:	17073077
Application Number:	16110926
Application Number:	16522148
Application Number:	14061456
Application Number:	15138001
Application Number:	15670439
Application Number:	13601035
Application Number:	16684165
Application Number:	13733020
Application Number:	16590574
Application Number:	16576953
Application Number:	16682785
Application Number:	63056384

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: JAY DASILVA

Address Line 1: 1025 CONNECTICUT AVE., NW, STE. 712

Address Line 2: COGENCY GLOBAL INC.

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER: 1397659 2L PAT D

NAME OF SUBMITTER: CHRISTIAN CRAFT

SECOND LIEN PATENT SECURITY AGREEMENT

This Patent Security Agreement, dated as of June 4, 2021 (this “**Patent Security Agreement**”), is made by each signatory hereto listed under “Pledgors” (each a “**Pledgor**” and collectively, the “**Pledgors**”), in favor of Alter Domus (US) LLC, in its capacity as collateral agent for the secured parties (in such capacity, together with its successors and permitted assigns, the “**Collateral Agent**”) pursuant to that certain Second Lien Credit Agreement, dated as of June 4, 2021 (as amended, restated, amended and restated, supplemented, extended, waived, renewed, replaced, refinanced or otherwise modified from time to time, the “**Credit Agreement**”), by and among Polaris Newco, LLC, a Delaware limited liability company (“**Initial Borrower**”), Solera, LLC, a Delaware limited liability company (“**Solera**”), Omnitracs, LLC, a Delaware limited liability company (“**Omnitracs**”), and DealerSocket, LLC, a Delaware limited liability company (“**DealerSocket**”, and, together with Solera, Omnitracs, Initial Borrower and, together with any Subsidiaries of Holdings joined under the Credit Agreement as a Borrower after the Closing Date, the “**Borrowers**”), Polaris Parent, LLC, a Delaware limited liability company (“**Holdings**”), the other Credit Parties from time to time party thereto, the lenders from time to time party thereto and the several agents party thereto, including the Collateral Agent.

W I T N E S S E T H:

WHEREAS, the Pledgors are party to a Security Agreement of even date with the Credit Agreement (as amended, restated, amended and restated, supplemented, waived, renewed, replaced or otherwise modified from time to time, the “**Security Agreement**”) in favor of the Collateral Agent pursuant to which the Pledgors are required to execute and deliver this Patent Security Agreement.

NOW, THEREFORE, in consideration of the premises and to induce the Collateral Agent, for the benefit of the Secured Parties, to enter into the Credit Agreement, each Pledgor hereby agrees with the Collateral Agent as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement, or if not defined therein, in the Credit Agreement.

SECTION 2. Grant of Security Interest in Patent Collateral. As security for the payment or performance, as the case may be, in full of the Secured Obligations, each Pledgor hereby pledges and grants to the Collateral Agent for the benefit of the Secured Parties a Lien on and security interest in all of the right, title and interest of such Pledgor in, to and under all the following to the extent constituting Pledged Collateral, and in each case excluding Excluded Property (collectively, the “**Patent Collateral**”):

- (a) all Patents owned by the Pledgors including, without limitation, the United States issued patents and patent applications listed on Schedule 1 attached hereto; and
- (b) all Proceeds of any and all of the foregoing.

SECTION 3. Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Collateral Agent pursuant to the Security Agreement, and the Pledgors hereby acknowledge and affirm that the rights and remedies of the Collateral Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

SECTION 4. Recordation. Each Pledgor authorizes and requests that the Commissioner for Patents and any other applicable government officer record this Patent Security Agreement.

SECTION 5. Termination. This Patent Security Agreement shall terminate and the Lien on and security interest in the Patent Collateral shall be released upon the Payment in Full of the Secured Obligations. Upon the termination of this Patent Security Agreement, the Collateral Agent shall execute all documents, make all filings, take all other actions reasonably requested by the Pledgors to evidence and record the release of the Lien on and security interests in the Patent Collateral granted herein.

SECTION 6. Counterparts. This Patent Security Agreement may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any party hereto may execute this Patent Security Agreement by signing and delivering one or more counterparts. Delivery of an executed counterpart of this Patent Security Agreement by facsimile or other electronic means shall be effective as delivery of a manually executed counterpart of this Patent Security Agreement.

SECTION 7. Governing Law. This Patent Security Agreement shall be construed in accordance with and governed by the law of the State of New York. The terms of Section 10.09 and Section 10.10 of the Credit Agreement are incorporated herein *mutatis mutandis*.

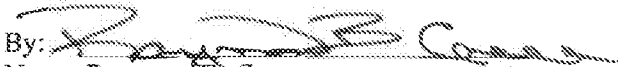
SECTION 8. Intercreditor Agreement. Notwithstanding anything herein to the contrary, the liens and security interests granted to the Collateral Agent pursuant to this Patent Security Agreement and the exercise of any right or remedy by the Collateral Agent hereunder are subject to the provisions of the Intercreditor Agreement. In the event of any conflict between the terms of the Intercreditor Agreement and the terms of this Patent Security Agreement, the terms of the Intercreditor Agreement shall govern.

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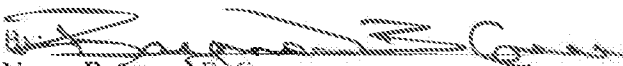
IN WITNESS WHEREOF, each Pledgor has caused this Second Lien Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

PLEDGORS:

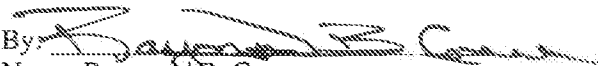
OMNITRACS, LLC,
a Delaware limited liability company

By: 
Name: Raymond B. Greer
Title: Chief Executive Officer

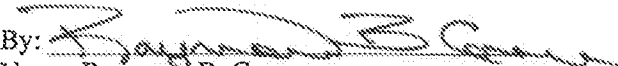
ROADNET TECHNOLOGIES, INC.,
a Delaware corporation

By: 
Name: Raymond B. Greer
Title: Chief Executive Officer

SMARTDRIVE SYSTEMS, INC.,
a Delaware corporation

By: 
Name: Raymond B. Greer
Title: Chief Executive Officer

XRS CORPORATION,
a Minnesota corporation

By: 
Name: Raymond B. Greer
Title: Chief Executive Officer

HYPERQUEST, LLC,
a Delaware limited liability company

By: _____
Name: David Babin
Title: Secretary

[Signature Page to Second Lien Patent Security Agreement]

IN WITNESS WHEREOF, each Pledgor has caused this Second Lien Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

PLEDGORS:

OMNITRACS, LLC,
a Delaware limited liability company

By: _____
Name: Raymond B. Greer
Title: Chief Executive Officer

ROADNET TECHNOLOGIES, INC.,
a Delaware corporation

By: _____
Name: Raymond B. Greer
Title: Chief Executive Officer

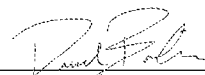
SMARTDRIVE SYSTEMS, INC.,
a Delaware corporation

By: _____
Name: Raymond B. Greer
Title: Chief Executive Officer

XRS CORPORATION,
a Minnesota corporation

By: _____
Name: Raymond B. Greer
Title: Chief Executive Officer


HYPERQUEST, LLC,
a Delaware limited liability company

By:  _____
Name: David L. Babin
Title: Secretary


[Signature Page to Second Lien Patent Security Agreement]

PLEDGORS (continued):


AUDATEX NORTH AMERICA, LLC,
a Delaware limited liability company

By: 
Name: Ron Rogozinski
Title: Chief Financial Officer

CLAIMS SERVICES GROUP, LLC,
a Delaware limited liability company

By: 
Name: Ron Rogozinski
Title: Chief Financial Officer


DMEAUTOMOTIVE LLC,
a Delaware limited liability company

By: 
Name: Ron Rogozinski
Title: Chief Financial Officer

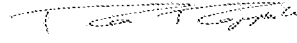
ENSERVIO, LLC,
a Delaware limited liability company

By: 
Name: Ron Rogozinski
Title: Chief Financial Officer


MOBILE PRODUCTIVITY, LLC,
a Nevada limited liability company

By: 
Name: Ron Rogozinski
Title: Chief Financial Officer

SEE PROGRESS, LLC,
a Michigan limited liability company

By: 
Name: Ron Rogozinski
Title: Chief Financial Officer


SOLERA HOLDINGS, LLC,
a Delaware limited liability company

By: 
Name: Ron Rogozinski
Title: Chief Financial Officer

[Signature Page to Second Lien Patent Security Agreement]

PLEDGORS (continued):

EDRIVING FLEET LLC,
a Delaware limited liability company

By: 
Name: Ron Rogozinski
Title: Chief Financial Officer

FINANCE EXPRESS LLC,
a Nevada limited liability company

By: _____
Name: Sejal C. Pietrzak
Title: Chief Executive Officer


[Signature Page to Second Lien Patent Security Agreement]

PLEDGORS (continued):

EDRIVING FLEET LLC,
a Delaware limited liability company

By: _____
Name: Ron Rogozinski
Title: Chief Financial Officer

FINANCE EXPRESS LLC,
a Nevada limited liability company

By:  _____
Name: Sejal C. Pietrzak
Title: Chief Executive Officer

[Signature Page to Second Lien Patent Security Agreement]

Accepted and Agreed:

ALTER DOMUS (US) LLC,
as Collateral Agent

By: 

Name: Wimalynn N. Kantaris

Title: Associate General Counsel

[Signature Page to Second Lien Patent Security Agreement]

PATENT
REEL: 056598 FRAME: 0078

SCHEDULE 1
to
PATENT SECURITY AGREEMENT

UNITED STATES ISSUED PATENTS AND PATENT APPLICATIONS

United States Issued Patents:

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
A battery management system for determining battery charge sufficiency for a task	US	Issued	11/345808	2/1/2006	7,595,642	9/29/2009	Omnitracs, LLC
Advanced warning system	US	Issued	14/935193	11/6/2015	9,984,573	5/29/2018	Omnitracs, LLC
Analysis of time-based geospatial mashups using ad hoc visual queries	US	Issued	12/005334	12/26/2007	8,230,333	7/24/2012	Omnitracs, LLC
Apparatus and method for measuring operational data for equipment using sensor breach durations	US	Issued	11/777235	7/12/2007	9,235,938	1/12/2016	Omnitracs, LLC
Apparatus and methods for speed management and control	US	Issued	11/361221	2/23/2006	7,660,658	2/9/2010	Omnitracs, LLC
Asset apparency method and apparatus	US	Issued	12/685778	1/12/2010	8,078,117	12/13/2011	Omnitracs, LLC
Asset apparency method and apparatus	US	Issued	10/782594	2/18/2004	8,064,841	11/22/2011	Omnitracs, LLC
Auto-fill message fields in a communication terminal	US	Issued	10/074140	2/11/2002	6,925,308	8/2/2005	Omnitracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Automatic truck loading and unloading system	US	Issued	15/404003	1/11/2017	10,815,080	10/27/2020	OmniTracs, LLC
Compact display unit	US	Issued	11/519319	9/11/2006	8,140,137	3/20/2012	OmniTracs, LLC
Concave reflector with phase shifted and selectively focused output energy	US	Issued	09/941316	8/28/2001	6,512,495	1/28/2003	OmniTracs, LLC
Context aware message presentation system	US	Issued	12/261237	10/30/2008	8,805,337	8/12/2014	OmniTracs, LLC
Critical event reporting	US	Issued	12/757459	4/9/2010	8,000,843	8/16/2011	OmniTracs, LLC
Critical event reporting	US	Issued	11/521841	9/14/2006	7,725,216	5/25/2010	OmniTracs, LLC
Data rate selection in a constant power variable data rate two-way mobile satellite communication link	US	Issued	11/759108	6/6/2007	7,929,482	4/19/2011	OmniTracs, LLC
Device communication management in a communication system	US	Issued	14/994381	1/13/2016	10,149,157	12/4/2018	OmniTracs, LLC
Device for sensing tractor trailer connection	US	Issued	11/510033	8/24/2006	7,619,506	11/17/2009	OmniTracs, LLC
Digital over-the-air keying system	US	Issued	12/282716	12/1/2008	9,165,416	10/20/2015	OmniTracs, LLC
Display screen with graphical user interface	US	Issued	29/612362	7/31/2017	D884004	5/12/2020	OmniTracs, LLC
Display screen with graphical user interface	US	Issued	29/612378	7/31/2017	D894916	9/1/2020	OmniTracs, LLC
Display screen with graphical user interface	US	Issued	29/612383	7/31/2017	D894917	9/1/2020	OmniTracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Display screen with transitional graphical user interface	US	Issued	29/612376	7/31/2017	D884005	5/12/2020	OmniTracs, LLC
Display screen with transitional graphical user interface	US	Issued	29/612381	7/31/2017	D884006	5/12/2020	OmniTracs, LLC
Distributed over the air programming	US	Issued	14/641131	3/6/2015	9,454,358	9/27/2016	OmniTracs, LLC
Driver log analytics system	US	Issued	14/799429	7/14/2015	10,504,068	12/10/2019	OmniTracs, LLC
Driver notification	US	Issued	11/520206	9/12/2006	9,628,968	4/18/2017	OmniTracs, LLC
Driving event assessment system	US	Issued	15/425419	2/6/2017	10,957,130	3/23/2021	OmniTracs, LLC
Dual transducer cargo sensor device	US	Issued	29/297143	11/5/2007	D581299	11/25/2008	OmniTracs, LLC
Emergency stopping for autonomous commercial vehicles	US	Issued	15/239547	8/17/2016	10,054,947	8/21/2018	OmniTracs, LLC
Establishing and securing a unique wireless rf link between a tractor and a trailer using a wired connection	US	Issued	11/758478	6/5/2007	7,760,077	7/20/2010	OmniTracs, LLC
Field disturbance sensor utilizing leaky or radiating coaxial cable for a comfortable antenna pattern	US	Issued	11/477104	6/27/2006	7,714,719	5/11/2010	OmniTracs, LLC
Flexible time-based aggregated derivations for advanced analytics	US	Issued	14/010687	8/27/2013	9,442,963	9/13/2016	OmniTracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Fluorescent dye to improve primer coverage accuracy for bonding applications	US	Issued	11/779226	7/17/2007	8,038,815	10/18/2011	OmniTracs, LLC
Fluorescent dye to improve primer coverage accuracy for bonding applications	US	Issued	13/107602	5/13/2011	8,410,992	4/2/2013	OmniTracs, LLC
GPS radome-mounted antenna assembly	US	Issued	11/228133	9/15/2005	7,336,241	2/26/2008	OmniTracs, LLC
Hardware continuity loop for preventing vehicle misappropriation	US	Issued	12/376752	2/6/2009	8,508,352	8/13/2013	OmniTracs, LLC
Integration of hours of service and navigation	US	Issued	14/794601	7/8/2015	10,415,988	9/17/2019	OmniTracs, LLC
Interactive control of access to services and capabilities of a mobile device	US	Issued	13/407977	2/29/2012	8,359,010	1/22/2013	OmniTracs, LLC
Interactive control of access to services and capabilities of a mobile device	US	Issued	11/743833	5/3/2007	8,150,371	4/3/2012	OmniTracs, LLC
Inter-network messaging for mobile computing platforms	US	Issued	14/641036	3/6/2015	10,194,275	1/29/2019	OmniTracs, LLC
Ku-band coaxial to microstrip mixed dielectric pcb interface with surface mount diplexer	US	Issued	12/376759	7/1/2010	8,736,397	5/27/2014	OmniTracs, LLC
Ku-band diplexer	US	Issued	12/376738	2/6/2009	8,471,649	6/25/2013	OmniTracs, LLC
Managing selective access of a user equipment to internet-based services based on transport type	US	Issued	13/560814	7/27/2012	10,003,652	6/19/2018	OmniTracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Managing selective access of a user equipment to internet-based services based on transport type	US	Issued	15/980862	5/16/2018	10,771,561	9/8/2020	OmniTracs, LLC
Media display unit	US	Issued	29/262215	6/27/2006	D551665	9/25/2007	OmniTracs, LLC
Media display unit	US	Issued	29/262221	6/27/2006	D554636	11/6/2007	OmniTracs, LLC
Media display unit	US	Issued	29/262266	6/27/2006	D555649	11/20/2007	OmniTracs, LLC
Method and apparatus for asset geofencing	US	Issued	11/346495	2/1/2006	8,593,276	11/26/2013	OmniTracs, LLC
Method and apparatus for controlling a valve during a hazard event	US	Issued	10/718284	11/19/2003	7,126,464	10/24/2006	OmniTracs, LLC
Method and apparatus for detecting cargo state in a delivery vehicle	US	Issued	11/070762	3/2/2005	7,339,460	3/4/2008	OmniTracs, LLC
Method and apparatus for detecting communication network delays	US	Issued	10/382194	3/4/2003	6,810,235	10/26/2004	OmniTracs, LLC
Method and apparatus for determining propagation delays for use in wide area networks	US	Issued	10/357834	2/3/2003	7,363,009	4/22/2008	OmniTracs, LLC
Method and apparatus for determining propagation delays for use in wide area networks	US	Issued	12/042127	3/4/2008	8,078,114	12/13/2011	OmniTracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Method and apparatus for enhanced privacy while tracking mobile workers	US	Issued	11/345997	2/1/2006	8,892,116	11/18/2014	OmniTracs, LLC
Method and apparatus for interlocking communication and tracking applications in a wireless communication device	US	Issued	12/942868	11/9/2010	8,396,488	3/12/2013	OmniTracs, LLC
Method and apparatus for interlocking communication and tracking applications in a wireless communication device	US	Issued	11/345843	2/1/2006	7,853,271	12/14/2010	OmniTracs, LLC
Method and apparatus for obtaining weather information from road-going vehicles	US	Issued	13/179407	7/8/2011	9,030,336	5/12/2015	OmniTracs, LLC
Method and apparatus for obtaining weather information from road-going vehicles	US	Issued	11/498971	8/2/2006	7,999,702	8/16/2011	OmniTracs, LLC
Method and apparatus for providing a hazardous material alert	US	Issued	13/371965	2/13/2012	8,427,290	4/23/2013	OmniTracs, LLC
Method and apparatus for providing a hazardous material alert	US	Issued	10/663405	9/16/2003	8,115,608	2/14/2012	OmniTracs, LLC
Method and apparatus for providing a personal security system	US	Issued	10/402582	3/27/2003	7,561,028	7/14/2009	OmniTracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Method and apparatus for providing a proof of delivery verification for freight transportation systems	US	Issued	11/111082	4/20/2005	7,242,279	7/10/2007	OmniTracs, LLC
Method and apparatus for providing navigation support for private premises	US	Issued	12/641725	12/18/2009	8,463,546	6/11/2013	OmniTracs, LLC
Method and apparatus for providing virtual capacity to a provider of services	US	Issued	10/000247	10/29/2001	7,212,984	5/1/2007	OmniTracs, LLC
Method and apparatus for providing virtual capacity to a provider of services	US	Issued	11/492630	7/24/2006	7,711,591	5/4/2010	OmniTracs, LLC
Method and apparatus for separable voice billing for business and personal airtime use	US	Issued	11/777026	7/12/2007	8,644,798	2/4/2014	OmniTracs, LLC
Method and apparatus for the distribution of configuration data	US	Issued	12/376725	2/6/2009	8,856,288	10/7/2014	OmniTracs, LLC
Method and apparatus to indicate communication is wanted or waiting	US	Issued	12/912488	10/26/2010	8,874,088	10/28/2014	OmniTracs, LLC
Method and apparatus to indicate communication is wanted or waiting	US	Issued	11/345809	2/1/2006	7,844,258	11/30/2010	OmniTracs, LLC
Method and apparatus for determining propagation delays for use in wide area networks	US	Issued	13/323482	12/12/2011	8,463,194	6/11/2013	OmniTracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Method and system for collecting, analyzing and displaying fleet performance data	US	Issued	13/623649	9/20/2012	9,189,450	11/17/2015	OmniTracs, LLC
Method for determining the null point of a gyroscope	US	Issued	11/696660	4/4/2007	8,286,463	10/16/2012	OmniTracs, LLC
Method of monitoring canbus information	US	Issued	12/020464	1/25/2008	8,751,098	6/10/2014	OmniTracs, LLC
Methods and apparatus for detecting local maximums in a two-dimensional data set	US	Issued	10/830187	4/21/2004	7,463,899	12/9/2008	OmniTracs, LLC
Methods and apparatus for providing hours of service management	US	Issued	11/370600	3/7/2006	7,616,105	11/10/2009	OmniTracs, LLC
Mobile group data distribution	US	Issued	11/859345	9/21/2007	8,005,498	8/23/2011	OmniTracs, LLC
Mobile reporting module employing timing and message consolidation to economize transmissions	US	Issued	09/997966	11/29/2001	6,990,336	1/24/2006	OmniTracs, LLC
Mobile wireless medication management system	US	Issued	11/839723	8/16/2007	8,538,775	9/17/2013	OmniTracs, LLC
Multi-resolution frequency tracking loop system and method	US	Issued	10/309545	12/3/2002	7,751,508	7/6/2010	OmniTracs, LLC
Navigation data quality feedback	US	Issued	11/345977	2/1/2006	8,024,114	9/20/2011	OmniTracs, LLC
Off-board hours-of-service ("hos") processing	US	Issued	13/789304	3/7/2013	9,922,001	3/20/2018	OmniTracs, LLC
Off-board hours-of-service ("hos") processing	US	Issued	15/891027	2/7/2018	10,706,125	7/7/2020	OmniTracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Platform and method for analyzing real-time position and movement data	US	Issued	13/267660	10/6/2011	8,869,038	10/21/2014	OmniTracs, LLC
Pourover journaling	US	Issued	12/053157	3/21/2008	8,700,574	4/15/2014	OmniTracs, LLC
Reefer fuel tax reporting for the transport industry	US	Issued	11/768798	6/26/2007	9,305,405	4/5/2016	OmniTracs, LLC
Remote control device	US	Issued	29/262347	6/28/2006	D571308	6/17/2008	OmniTracs, LLC
Remote control device	US	Issued	29/262341	6/28/2006	D571306	6/17/2008	OmniTracs, LLC
Remote control device	US	Issued	29/262340	6/28/2006	D589461	3/31/2009	OmniTracs, LLC
Remote control device	US	Issued	29/262344	6/28/2006	D571307	6/17/2008	OmniTracs, LLC
Remote control device	US	Issued	29/262339	6/28/2006	D588554	3/17/2009	OmniTracs, LLC
Routing drivers to trailers effectively	US	Issued	11/858876	9/20/2007	8,843,312	9/23/2014	OmniTracs, LLC
Self-correcting mobile antenna control system and method	US	Issued	10/864944	6/9/2004	6,972,724	12/6/2005	OmniTracs, LLC
Solar powered apparatus having a thermally decoupled solar panel for tracking a portable asset	US	Issued	13/371747	2/13/2012	8,902,590	12/2/2014	OmniTracs, LLC
System and method for charging a rechargeable battery	US	Issued	11/859074	9/21/2007	8,405,361	3/26/2013	OmniTracs, LLC
System and method for generating real-time alert	US	Issued	13/718798	12/18/2012	9,147,335	9/29/2015	OmniTracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
notifications in an asset tracking system							
System and method for integrating smartphone technology into a safety management platform to improve driver safety	US	Issued	12/704038	2/11/2010	9,688,286	6/27/2017	OmniTracs, LLC
System and method for managing movable objects	US	Issued	13/965432	8/13/2013	10,242,572	3/26/2019	OmniTracs, LLC
System and method for managing movable objects	US	Issued	16/273401	2/12/2019	10,902,723	1/26/2021	OmniTracs, LLC
System and method for sensing cargo loads and trailer movement	US	Issued	13/472288	5/15/2012	8,779,948	7/15/2014	OmniTracs, LLC
System and method for sensing cargo loads and trailer movement	US	Issued	12/021667	1/29/2008	8,179,286	5/15/2012	OmniTracs, LLC
System for message delivery to field personnel	US	Issued	10/997137	11/24/2004	7,990,964	8/2/2011	OmniTracs, LLC
System for pairing vehicle components	US	Issued	12/247095	10/7/2008	8,538,838	9/17/2013	OmniTracs, LLC
System for providing a virtual vehicle boundary	US	Issued	10/627531	7/25/2003	7,327,250	2/5/2008	OmniTracs, LLC
System for providing a virtual vehicle boundary	US	Issued	11/448344	6/6/2006	7,612,668	11/3/2009	OmniTracs, LLC
System for providing dynamic group and service assignments	US	Issued	11/097664	4/1/2005	8,706,095	4/22/2014	OmniTracs, LLC
System for providing online service reports	US	Issued	10/010587	11/13/2001	7,765,297	7/27/2010	OmniTracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Systems and method for automatically searching a database to tune a frequency modulator in a mobile device	US	Issued	11/962707	12/21/2007	8,478,288	7/2/2013	OmniTracs, LLC
Systems and methods for automatically tuning a frequency modulator in a mobile device	US	Issued	11/962727	12/21/2007	8,027,645	9/27/2011	OmniTracs, LLC
Systems and methods for determining a speed limit violation	US	Issued	12/428574	4/23/2009	9,536,426	1/3/2017	OmniTracs, LLC
Systems and methods for performing over-the-air activation while roaming	US	Issued	13/788953	3/7/2013	9,713,000	7/18/2017	OmniTracs, LLC
Systems and methods for processing location-and entity-based workflow data	US	Issued	13/623600	9/20/2012	9,183,273	11/10/2015	OmniTracs, LLC
Systems and methods for processing operational gear data of a vehicle	US	Issued	13/623588	9/20/2012	8,862,315	10/14/2014	OmniTracs, LLC
Systems and methods for processing vehicle data to report performance data interchangeably	US	Issued	13/623613	9/20/2012	9,262,873	2/16/2016	OmniTracs, LLC
Systems and methods for remotely upgrading software applications	US	Issued	13/461396	5/1/2012	8,594,653	11/26/2013	OmniTracs, LLC
Systems and methods for remotely upgrading software applications	US	Issued	11/831879	7/31/2007	8,170,540	5/1/2012	OmniTracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Systems and methods for vehicle monitoring with processing interruption tolerance	US	Issued	13/107304	5/13/2011	8,589,019	11/19/2013	OmniTracks, LLC
Systems and methods for vehicle monitoring with processing interruption tolerance	US	Issued	14/053878	10/15/2013	9,008,893	4/14/2015	OmniTracks, LLC
Systems for and methods of engine derating	US	Issued	13/628881	9/27/2012	8,897,928	11/25/2014	OmniTracks, LLC
Timeline visualizations linked with other visualizations of data in a thin client	US	Issued	11/725119	3/16/2007	8,560,946	10/15/2013	OmniTracks, LLC
Tire pressure optimization system	US	Issued	15/011202	1/29/2016	10,144,253	12/4/2018	OmniTracks, LLC
Vehicle and drone management system	US	Issued	15/642027	7/5/2017	10,706,381	7/7/2020	OmniTracks, LLC
Vehicle audio integrator	US	Issued	11/492516	7/24/2006	8,275,307	9/25/2012	OmniTracks, LLC
Vehicle identification system	US	Issued	12/986829	1/7/2011	8,868,099	10/21/2014	OmniTracks, LLC
Vehicle identification system	US	Issued	11/521976	9/14/2006	7,894,826	2/22/2011	OmniTracks, LLC
Vehicle parking system	US	Issued	15/011182	1/29/2016	9,810,542	11/7/2017	OmniTracks, LLC
Vehicle security system and method	US	Issued	10/674041	9/29/2003	8,660,709	2/25/2014	OmniTracks, LLC
Vehicle security system and method	US	Issued	12/498731	7/7/2009	9,002,575	4/7/2015	OmniTracks, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Vehicle video recording system with driver privacy	US	Issued	15/467618	3/23/2017	10,687,030	6/16/2020	Omnitracs, LLC
Wireless device caching data proxy	US	Issued	11/763164	6/14/2007	8,787,880	7/22/2014	Omnitracs, LLC
Wireless provisioning solution for target devices	US	Issued	12/506142	7/20/2009	8,331,923	12/11/2012	Omnitracs, LLC
Wireless provisioning solution for target devices	US	Issued	13/671740	11/8/2012	8,594,624	11/26/2013	Omnitracs, LLC
Wireless system for automatic ordering of maintenance parts for equipment	US	Issued	11/230759	9/19/2005	9,015,059	4/21/2015	Omnitracs, LLC
Wireless system for providing critical sensor alerts for equipment	US	Issued	11/230352	9/19/2005	8,559,937	10/15/2013	Omnitracs, LLC
Real-time delivery feasibility analysis systems and methods	US	Issued	09/811375	3/16/2001	6,701,299	3/2/2004	Roadnet Technologies, Inc.
Rush hour modeling for routing and scheduling	US	Issued	12/236306	9/23/2008	8,433,511	4/30/2013	Roadnet Technologies, Inc.
Rush hour modeling for routing and scheduling	US	Issued	13/871554	4/26/2013	8,768,605	7/1/2014	Roadnet Technologies, Inc.
Systems and methods for routing and scheduling	US	Issued	11/382405	5/9/2006	9,135,575	9/15/2015	Roadnet Technologies, Inc.
Systems and methods for scheduling reoccurring deliveries and pickups	US	Issued	10/076029	2/12/2002	6,985,871	1/10/2006	Roadnet Technologies, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Systems and methods for scheduling reoccurring deliveries and pickups	US	Issued	11/271644	11/10/2005	7,860,738	12/28/2010	Roadnet Technologies, Inc.
Systems and methods for verifying whether vehicle operators are paying attention	US	Issued	16/400,806	5/1/2019	10,807,527	10/20/2020	SmartDrive Systems, Inc.
Vehicle event recording system and method	US	Issued	16/426,386	5/30/2019	10,930,093	2/23/2021	SmartDrive Systems, Inc.
Autonomous vehicle operator performance tracking	US	Issued	16/417,604	5/20/2019	10,589,750	3/17/2020	SmartDrive Systems, Inc.
Systems and methods for using on-board resources of individual vehicles in a fleet of vehicles as a distributed data center	US	Issued	16/676,133	11/6/2019	10,937,255	3/2/2021	SmartDrive Systems, Inc.
Systems and methods for detecting a sitting duck scenario	US	Issued	16/798,218	2/21/2020	10684390	6/16/2020	SmartDrive Systems, Inc.
Systems and methods for managing speed thresholds for vehicles	US	Issued	16/798,231	2/21/2020	10683017	6/16/2020	SmartDrive Systems, Inc.
Rail vehicle event triggering system method	US	Issued	14/594,387	1/12/2015	9,296,401	3/29/2016	SmartDrive Systems, Inc.
Vehicle event recorder systems	US	Issued	11/296,906	12/8/2005	10,878,646	12/29/2020	SmartDrive Systems, Inc.
Memory management in event recording systems	US	Issued	13/734,800	1/4/2013	8,880,279	11/4/2014	SmartDrive Systems, Inc.
Vehicle event recorders with integrated web server	US	Issued	11/377,164	3/16/2006	8,996,240	3/31/2015	SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Vehicle event recorder systems and networks having integrated cellular wireless communications systems	US	Issued	11/377,167	3/16/2006	9,201,842	12/1/2015	SmartDrive Systems, Inc.
Vehicle event recorder systems and networks having integrated cellular wireless communications systems	US	Issued	13/957,810	8/2/2013	9,208,129	12/8/2015	SmartDrive Systems, Inc.
Vehicle fuel consumption monitor and feedback systems	US	Issued	14/076,511	11/11/2013	9,610,955	4/4/2017	SmartDrive Systems, Inc.
Vehicle event playback apparatus and methods	US	Issued	14/055,833	10/16/2013	9,501,878	11/22/2016	SmartDrive Systems, Inc.
Distributed vehicle event recorder systems having a portable memory data transfer system	US	Issued	14/036,299	9/25/2013	9,183,679	11/10/2015	SmartDrive Systems, Inc.
Vehicle event playback apparatus and methods	US	Issued	13/571,416	8/10/2012	9,728,228	8/8/2017	SmartDrive Systems, Inc.
Rail vehicle event detection and recording system	US	Issued	14/525,416	10/28/2014	9,663,127	5/30/2017	SmartDrive Systems, Inc.
Vehicle operator performance recording, scoring and reporting systems	US	Issued	14/529,134	10/30/2014	9,761,067	9/12/2017	SmartDrive Systems, Inc.
Vehicle exception event management systems	US	Issued	14/516,650	10/17/2014	9,738,156	8/22/2017	SmartDrive Systems, Inc.
System and method to detect execution of driving maneuvers	US	Issued	14/486,744	9/15/2014	9,594,371	3/14/2017	SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
System and method for aggregation display and analysis of rail vehicle event information	US	Issued	14/592,245	1/8/2015	9,487,222	11/8/2016	SmartDrive Systems, Inc.
System and method for synthesizing rail vehicle event information	US	Issued	14/592,446	1/8/2015	9,902,410	2/27/2018	SmartDrive Systems, Inc.
Memory management in event recording systems	US	Issued	14/531,854	11/3/2014	9,226,004	12/29/2015	SmartDrive Systems, Inc.
Vehicle event recording system and method	US	Issued	14/676,622	4/1/2015	9,679,420	6/13/2017	SmartDrive Systems, Inc.
Vehicle event recorder systems and networks having integrated cellular wireless communications systems	US	Issued	14/798,454	7/13/2015	9,545,881	1/17/2017	SmartDrive Systems, Inc.
Vehicle event recorder systems	US	Issued	12/096,591	10/3/2008	9,633,318	4/25/2017	SmartDrive Systems, Inc.
Memory management in event recording systems	US	Issued	12/096,592	10/3/2008	8,374,746	2/12/2013	SmartDrive Systems, Inc.
Vehicle operator performance recording, scoring and reporting systems	US	Issued	11/593,659	11/7/2006	8,989,959	3/24/2015	SmartDrive Systems, Inc.
Power management systems for automotive video event recorders	US	Issued	11/593,682	11/7/2006	8,649,933	2/11/2014	SmartDrive Systems, Inc.
Discretization facilities for vehicle event data recorders	US	Issued	11/637,754	12/13/2006	8,139,820	3/20/2012	SmartDrive Systems, Inc.
Distributed vehicle event recorder systems having a	US	Issued	11/800,876	5/8/2007	8,239,092	8/7/2012	SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
portable memory data transfer system							
Distributed vehicle event recorder systems having a portable memory data transfer system	US	Issued	13/539,312	6/30/2012	8,571,755	10/29/2013	SmartDrive Systems, Inc.
System and method to detect execution of driving maneuvers	US	Issued	14/186,416	2/21/2014	8,892,310	11/18/2014	SmartDrive Systems, Inc.
Vehicle exception event management systems	US	Issued	11/595,015	11/9/2006	8,868,288	10/21/2014	SmartDrive Systems, Inc.
Power management systems for automotive video event recorders	US	Issued	14/177,047	2/10/2014	9,554,080	1/24/2017	SmartDrive Systems, Inc.
Vehicle event recorders with integrated web server	US	Issued	14/634,688	2/27/2015	9,402,060	7/26/2016	SmartDrive Systems, Inc.
Distributed vehicle event recorder systems having a portable memory data transfer system	US	Issued	14/935,247	11/6/2015	9,679,424	6/13/2017	SmartDrive Systems, Inc.
Systems and method to trigger vehicle events based on contextual information	US	Issued	15/006,066	1/25/2016	9,786,104	10/10/2017	SmartDrive Systems, Inc.
Systems and methods for capturing and offloading different information based on event trigger	US	Issued	15/151,877	5/11/2016	10818109	10/27/2020	SmartDrive Systems, Inc.
System and method to determine responsiveness of a driver of a vehicle to	US	Issued	15/077,825	3/22/2016	9,639,804	5/2/2017	SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
feedback regarding driving behaviors							
Vehicle event recorder systems and networks having integrated cellular wireless communications systems	US	Issued	14/929,197	10/30/2015	9,566,910	2/14/2017	SmartDrive Systems, Inc.
Vehicle event recorder systems and networks having integrated cellular wireless communications systems	US	Issued	14/944,037	11/17/2015	9,472,029	10/18/2016	SmartDrive Systems, Inc.
Memory management in event recording systems	US	Issued	14/981,384	12/28/2015	9,911,253	3/6/2018	SmartDrive Systems, Inc.
Rail vehicle event triggering system and method	US	Issued	14/975,304	12/18/2015	9,908,546	3/6/2018	SmartDrive Systems, Inc.
Vehicle event recorders with integrated web server	US	Issued	15/201,385	7/1/2016	9,942,526	4/10/2018	SmartDrive Systems, Inc.
Calibrating sensor unit orientation for use in a vehicle monitoring system	US	Issued	15/583,854	5/1/2017	9,958,473	5/1/2018	SmartDrive Systems, Inc.
Measuring operator readiness and readiness testing triggering in an autonomous vehicle	US	Issued	15/341,714	11/2/2016	9,823,657	11/21/2017	SmartDrive Systems, Inc.
Autonomous vehicle operator performance tracking	US	Issued	15/341,737	11/2/2016	9,663,118	5/30/2017	SmartDrive Systems, Inc.
Vehicle event recorder systems and networks having integrated cellular wireless communications systems	US	Issued	15/295,932	10/17/2016	9,691,195	6/27/2017	SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Vehicle event playback apparatus and methods	US	Issued	15/357,897	11/21/2016	10,019,858	7/10/2018	SmartDrive Systems, Inc.
System and method for aggregation display and analysis of rail vehicle event information	US	Issued	15/346,479	11/8/2016	9,981,674	5/29/2018	SmartDrive Systems, Inc.
Power management systems for automotive video event recorders	US	Issued	15/370,707	12/6/2016	10,053,032	8/21/2018	SmartDrive Systems, Inc.
System and method to detect execution of driving maneuvers	US	Issued	15/441,070	2/23/2017	9,953,470	4/24/2018	SmartDrive Systems, Inc.
System and method to detect execution of driving maneuvers	US	Issued	15/458,610	3/14/2017	10706648	7/7/2020	SmartDrive Systems, Inc.
System and method to determine responsiveness of a driver of a vehicle to feedback regarding driving behaviors	US	Issued	15/483,825	4/10/2017	10,081,365	9/25/2018	SmartDrive Systems, Inc.
Rail vehicle event detection and recording system	US	Issued	15/486,951	4/13/2017	10,358,154	7/23/2019	SmartDrive Systems, Inc.
Autonomous vehicle operator performance tracking	US	Issued	15/606,760	5/26/2017	9,908,535	3/6/2018	SmartDrive Systems, Inc.
Vehicle fuel consumption monitor and feedback systems	US	Issued	15/478,019	4/3/2017	10,246,104	4/2/2019	SmartDrive Systems, Inc.
Vehicle event recording system and method	US	Issued	15/620,420	6/12/2017	10,360,739	7/23/2019	SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Distributed vehicle event recorder systems having a portable memory data transfer system	US	Issued	15/592,009	5/10/2017	10,476,933	11/12/2019	SmartDrive Systems, Inc.
Vehicle operator performance history recording, scoring and reporting systems	US	Issued	15/658,136	7/24/2017	10,339,732	7/2/2019	SmartDrive Systems, Inc.
Vehicle exception event management systems	US	Issued	15/674,915	8/11/2017	10,471,828	11/12/2019	SmartDrive Systems, Inc.
Systems and methods for using on-board resources of individual vehicles in a fleet of vehicles as a distributed data center	US	Issued	15/958,636	4/20/2018	10,102,691	10/16/2018	SmartDrive Systems, Inc.
Systems and methods for using a distributed data center to create map data	US	Issued	15/958,659	4/20/2018	10,062,281	8/28/2018	SmartDrive Systems, Inc.
Systems and method to trigger vehicle events based on contextual information	US	Issued	15/727,227	10/6/2017	10,796,504	10/6/2020	SmartDrive Systems, Inc.
Measuring operator readiness and readiness testing triggering in an autonomous vehicle	US	Issued	15/782,140	10/12/2017	10,082,790	9/25/2018	SmartDrive Systems, Inc.
Autonomous vehicle operator performance tracking	US	Issued	15/879,927	1/25/2018	10,106,174	10/23/2018	SmartDrive Systems, Inc.
System and method to detect execution of driving maneuvers	US	Issued	15/879,772	1/25/2018	10,249,105	4/2/2019	SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Vehicle event recorders with integrated web server	US	Issued	15/881,518	1/26/2018	10,404,951	9/3/2019	SmartDrive Systems, Inc.
Calibrating sensor unit orientation for use in a vehicle monitoring system	US	Issued	15/906,977	2/27/2018	10,712,362	7/14/2020	SmartDrive Systems, Inc.
Systems and methods for querying fleet information stored in a distributed data center	US	Issued	16/058,591	8/8/2018	10,789,788	9/29/2020	SmartDrive Systems, Inc.
Systems and methods for generating and providing timely vehicle event information	US	Issued	16/025,813	7/2/2018	10,818,102	10/27/2020	SmartDrive Systems, Inc.
Vehicle event playback apparatus and methods	US	Issued	15/969,614	5/2/2018	10,818,112	10/27/2020	SmartDrive Systems, Inc.
Power management systems for automotive video event recorders	US	Issued	16/034,185	7/12/2018	10,682,969	6/16/2020	SmartDrive Systems, Inc.
Systems and methods for using a distributed data center to create map data	US	Issued	16/049,389	7/30/2018	10,818,175	10/27/2020	SmartDrive Systems, Inc.
Systems and methods for using on-board resources of individual vehicles in a fleet of vehicles as a distributed data center	US	Issued	16/158,124	10/11/2018	10,482,686	11/19/2019	SmartDrive Systems, Inc.
Measuring operator readiness and readiness testing triggering in an autonomous vehicle	US	Issued	16/138,588	9/21/2018	10,705,523	7/7/2020	SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
System and method to determine responsiveness of a driver of a vehicle to feedback regarding driving behaviors.	US	Issued	16/138,666	9/21/2018	10,793,160	10/6/2020	SmartDrive Systems, Inc.
Autonomous vehicle operator performance tracking	US	Issued	16/160,451	10/15/2018	10,315,666	6/11/2019	SmartDrive Systems, Inc.
System and method to detect execution of driving maneuvers	US	Issued	16/280,903	2/2/2014	10,497,187	12/3/2019	SmartDrive Systems, Inc.
Systems and methods for detecting a sitting duck scenario	US	Issued	16/891,535	6/3/2020	10,921,487	2/16/2021	SmartDrive Systems, Inc.
Systems and methods for managing speed thresholds for vehicles	US	Issued	16/891,782	6/3/2020	10,988,146	4/27/2021	SmartDrive Systems, Inc.
Systems and methods for querying fleet information stored in a distributed data center	US	Issued	16/899,443	6/11/2020	10,930,092	2/23/2021	SmartDrive Systems, Inc.
Commercial transportation information presentation techniques	US	Issued	13/730165	12/28/2012	9,262,934	2/16/2016	XRS Corporation
Communication system with wireless electronic mail or messaging integrated and/or associated with application program residing on remote computing device	US	Issued	09/917937	7/31/2001	6,938,099	8/30/2005	XRS Corporation

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Communication techniques for transportation route modifications	US	Issued	13/730138	12/28/2012	9,754,499	9/5/2017	XRS Corporation
Data transmission for transportation management	US	Issued	13/730020	12/28/2012	9,064,422	6/23/2015	XRS Corporation
Environmental condition monitoring of a container	US	Issued	11/436381	5/18/2006	7,784,707	8/31/2010	XRS Corporation
Fleet vehicle management systems and methods	US	Issued	13/174331	6/30/2011	8,626,568	1/7/2014	XRS Corporation
Fleet vehicle management systems and methods	US	Issued	14/071382	11/4/2013	10,255,575	4/9/2019	XRS Corporation
Fleet vehicle management systems and methods	US	Issued	14/146803	1/3/2014	10,134,000	11/20/2018	XRS Corporation
Network communication for transportation management	US	Issued	13/730237	12/28/2012	10,380,905	8/13/2019	XRS Corporation
Portable data storage module	US	Issued	11/436880	5/18/2006	7,401,741	7/22/2008	XRS Corporation
Portable data storage module	US	Issued	12/145093	6/24/2008	7,802,729	9/28/2010	XRS Corporation
Remote distribution of software updates in a transportation management network	US	Issued	13/730187	12/28/2012	9,014,906	4/21/2015	XRS Corporation
Remote transportation management	US	Issued	13/730206	12/28/2012	10,922,988	2/16/2021	XRS Corporation
System and method of host routing when host computer is within a home network and/or a complementary network	US	Issued	10/440367	5/19/2003	7,230,944	6/12/2007	XRS Corporation

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
System and method of transmitting data messages between subscriber units communicating with/between complementary/disparate networks	US	Issued	09/958752	10/12/2001	6,947,737	9/20/2005	XRS Corporation
System for local monitoring	US	Issued	10/223603	8/20/2002	6,904,363	2/26/2004	XRS Corporation
System for local monitoring	US	Issued	11/141866	5/31/2005	7,043,365	9/22/2005	XRS Corporation
Transportation management techniques	US	Issued	13/729951	12/28/2012	9,014,943	4/21/2015	XRS Corporation
Vehicle data acquisition for transportation management	US	Issued	13/729987	12/28/2012	9,020,733	4/28/2015	XRS Corporation
Vehicle data and driver association for transportation management	US	Issued	13/730046	12/28/2012	9,390,628	7/12/2016	XRS Corporation
Vehicle driver evaluation techniques	US	Issued	13/730264	12/28/2012	9,633,568	4/25/2017	XRS Corporation
System and method of polling wireless devices having a substantially fixed and/or predesignated geographic location	US	Issued	10/606305	6/26/2003	7,068,992	6/27/2006	XRS Corporation
System and method of querying a device, checking device roaming history and/or obtaining device modem statistics when	US	Issued	10/614391	7/8/2003	7,024,199	4/4/2006	XRS Corporation

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
device is within a home network and/or complementary network							
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	US	Issued	11/370103	3/8/2006	7,136,642	11/14/2006	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	US	Issued	11/370104	3/8/2006	7,162,238	1/9/2007	XRS Corporation
Mobile System for Generating a Damaged Vehicle Insurance Estimate	US	Issued	14/513027	10/13/2014	10,748,216	8/18/2020	Audatex North America, LLC (f/k/a Audatex North America Inc.)
System and Method for Processing Work Products for Vehicles Via the World Wide Web	US	Issued	13/897167	5/17/2013	8,725,544	5/13/2014	Audatex North America, LLC (f/k/a Audatex North America Inc.)
System for Capturing an Image of a Damaged Vehicle	US	Issued	14/461897	8/18/2014	9,491,355	11/8/2016	Audatex North America, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
							(f/k/a Audatex North America Inc.)
Vehicle Estimating System That Utilizes Volumetric Finite Element Analysis to Provide a Predictive Estimate	US	Issued	15/209498	7/13/2016	10,438,293	10/8/2019	Audatex North America, LLC (f/k/a Audatex North America Inc.)
VIN Based Insurance Claim System	US	Issued	13/440751	4/5/2012	9,959,575	5/1/2018	Audatex North America, LLC (f/k/a Audatex North America Inc.)
VIN Based Insurance Claim System	US	Issued	15/937659	3/27/2018	10,482,541	11/19/2019	Audatex North America, LLC (f/k/a Audatex North America Inc.)
Web Based Repair Cost Estimating System	US	Issued	14/014092	8/29/2013	10,922,664	2/16/2021	Audatex North America, LLC (f/k/a Audatex North America Inc.)
SYSTEM AND METHOD FOR PROCESSING WORK PRODUCTS FOR VEHICLES VIA THE WORLD WIDE WEB	US	Issued	13/026842	2/14/2011	8,200,513	6/12/2012	Audatex North America, LLC (f/k/a Audatex North America Inc.)

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
SYSTEM AND METHOD FOR PROCESSING WORK PRODUCTS FOR VEHICLES VIA THE WORLD WIDE WEB	US	Issued	13/463628	5/3/2012	8,468,038	6/18/2013	Audatex North America, LLC (f/k/a Audatex North America Inc.)
SYSTEM AND METHOD FOR PROCESSING WORK PRODUCTS FOR VEHICLES VIA THE WORLD WIDE WEB	US	Issued	10/979926	11/1/2004	7,912,740	3/22/2011	Audatex North America, LLC (f/k/a Audatex North America Inc.)
Multiple-Platform Estimating and Automatic Quoting for Network-Based Parts Resale	US	Issued	10979777	11/2/2004	7,835,945	11/16/2010	Claims Services Group, LLC
Multiple-Platform Estimating and Automatic Quoting for Network-Based Parts Resale with Transferable Reports	US	Issued	11789808	4/25/2007	7,945,480	5/17/2011	Claims Services Group, LLC
Multiple-Platform Estimating and Automatic Quoting for Network-Based Parts Resale with Transferable Reports	US	Issued	13107505	5/13/2011	8,190,487	5/29/2012	Claims Services Group, LLC
Multiple-Platform Estimating and Automatic Quoting for Network-Based	US	Issued	13480273	5/24/2012	8,473,365	6/25/2013	Claims Services Group, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Parts Resale with Transferable Reports							
Multiple-Platform Estimating and Automatic Quoting for Network-Based Parts Resale with Transferable Reports	US	Issued	13925215	6/24/2013	8,732,032	5/20/2014	Claims Services Group, LLC
System and Method for Collection, Processing, and Distributing Information to Promote Safe Driving	US	Issued	09/951,654	09/13/2001	6,714,894	3/30/2004	eDriving FLEET LLC
Dual-Activation Financial Products	US	Issued	12/759239	4/13/2010	8,346,665	1/1/2013	Enservio, LLC (f/k/a Enservio, Inc.)
Dual-Activation Financial Products	US	Issued	13/691214	11/30/2012	8,694,432	4/8/2014	Enservio, LLC (f/k/a Enservio, Inc.)
Dual-Activation Financial Products	US	Issued	13/912568	6/7/2013	8,762,278	6/24/2014	Enservio, LLC (f/k/a Enservio, Inc.)
Systems and method for managing dealer information	US	Issued	11738203	04/20/2007	7,908,210	3/15/2011	Finance Express LLC
Inspection Reporting Including 3D Vehicle Model	US	Issued	13/245760	9/26/2011	8,443,301	5/14/2013	Mobile Productivity, LLC
Inspection Reporting Including 3D Vehicle Model	US	Issued	13/892832	5/13/2013	9,454,854	9/27/2016	Mobile Productivity, LLC
User Interface for Display of Task Specific Information	US	Issued	11/035751	1/14/2005	7,444,216	8/8/2008	Mobile Productivity, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Automatic Watching System	US	Issued	10/272069	10/16/2002	7,151,448	12/19/2006	See Progress, LLC (f/k/a See Progress, Inc.)
Automatic Watching System	US	Issued	10/695697	10/29/2003	7,202,781	4/10/2007	See Progress, LLC (f/k/a See Progress, Inc.)
On-Board Diagnostics Module	US	Issued	29/616015	9/1/2017	D865639	11/5/2019	Solera Holdings, LLC (f/k/a Solera Holdings, Inc.)
On-Board Diagnostics Module	US	Issued	29/616017	9/1/2017	D856640	11/5/2019	Solera Holdings, LLC (f/k/a Solera Holdings, Inc.)
Power Management for a Vehicle Smart Mirror System	US	Issued	16/506775	7/9/2019	10,529,264	1/7/2020	Solera Holdings, LLC (f/k/a Solera Holdings, Inc.)
Start and Stop Methods for a Vehicle Smart Mirror	US	Issued	15/927837	3/21/2018	10,482,801	11/19/2019	Solera Holdings, LLC (f/k/a Solera Holdings, Inc.)
Vehicle Smart Mirror System with Heads-Up Display	US	Issued	15/927818	3/21/2018	10,522,061	12/31/2019	Solera Holdings, LLC (f/k/a Solera Holdings, Inc.)
Vehicle Tire Monitoring Systems and Methods	US	Issued	15/725028	10/4/2017	10,657,739	5/19/2020	Solera Holdings, LLC (f/k/a Solera Holdings, Inc.)

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
HISTORICAL VEHICLE PARTS DATABASE SYSTEM	US	Issued	12/726221	3/17/2010	7,945,478	5/17/2011	HyperQuest, LLC (f/k/a HyperQuest, Inc.)
AUTOMATION OF AUDITING CLAIMS	US	Issued	12/474472	5/29/2009	8,073,718	12/6/2011	HyperQuest, LLC (f/k/a HyperQuest, Inc.)
AUTOMATION OF AUDITING CLAIMS	US	Issued	12/474482	5/29/2009	8,255,205	8/28/2012	HyperQuest, LLC (f/k/a HyperQuest, Inc.)
AUTOMATION OF AUDITING CLAIMS	US	Issued	12/474450	5/29/2009	8,346,577	1/1/2013	HyperQuest, LLC (f/k/a HyperQuest, Inc.)
AUTOMATION OF AUDITING CLAIMS	US	Issued	12/474454	5/29/2009	8,447,632	5/21/2013	HyperQuest, LLC (f/k/a HyperQuest, Inc.)
AUTOMATION OF AUDITING CLAIMS	US	Issued	13/610972	9/12/2012	8,447,638	5/21/2013	HyperQuest, LLC (f/k/a HyperQuest, Inc.)
COMPUTER SYSTEM WITH SECOND TRANSLATOR FOR VEHICLE PARTS	US	Issued	13/588253	8/17/2012	8,478,583	7/2/2013	HyperQuest, LLC (f/k/a HyperQuest, Inc.)
COMPUTER SYSTEM WITH SECOND TRANSLATOR FOR	US	Issued	13/584448	8/13/2012	8,510,101	8/13/2013	HyperQuest, LLC (f/k/a

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
VEHICLE PARTS							HyperQuest, Inc.)
AUTOMATION OF AUDITING CLAIMS	US	Issued	13/296427	11/15/2011	8,543,431	10/24/2013	HyperQuest, LLC (f/k/a HyperQuest, Inc.)
AUTOMATION OF AUDITING CLAIMS	US	Issued	13/602980	9/4/2012	8,600,782	12/3/2013	HyperQuest, LLC (f/k/a HyperQuest, Inc.)
AUTOMATION OF AUDITING CLAIMS	US	Issued	13/779403	2/27/2013	8,781,863	7/15/2014	HyperQuest, LLC (f/k/a HyperQuest, Inc.)
AUTOMATION OF AUDITING CLAIMS	US	Issued	14/144869	12/31/2013			HyperQuest, LLC (f/k/a HyperQuest, Inc.)

United States Patent Applications:

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Blockchain-based hours-of-service system	US	Published	16/163022	10/17/2018			Omnitracs, LLC
Communication mining analytics system	US	Published	15/011239	1/29/2016			Omnitracs, LLC
Control system for platooning of vehicles	US	Published	16/431347	6/4/2019			Omnitracs, LLC
Cost per mile calculation system	US	Pending	15/436238	2/17/2017			Omnitracs, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Display screen with graphical user interface	US	Pending	29/732546	4/24/2020			Omnitracs, LLC
Driver log retention system	US	Published	15/412199	1/23/2017			Omnitracs, LLC
Fleet wide video search	US	Published	16/105555	8/20/2018			Omnitracs, LLC
Integration of hours of service and navigation	US	Published	16/533267	8/6/2019			Omnitracs, LLC
Systems and methods for autonomously controlling movement of delivery vehicles	US	Published	16/447322	6/20/2019			Omnitracs, LLC
Techniques for identifying trailers associated with a tractor using wireless signals	US	Published	16/707939	12/9/2019			Omnitracs, LLC
Vehicle control system based on detention time	US	Published	16/279493	2/19/2019			Omnitracs, LLC
Vehicle driver activity level determinations and analysis in a fleet management system	US	Allowed	15/416930	1/26/2017			Omnitracs, LLC
Vehicle video recording system with driver privacy	US	Published	16/900559	6/12/2020			Omnitracs, LLC
Lane-specific recommendations	US	Pending	16/430,262	6/3/2019			SmartDrive Systems, Inc.
Vehicle exception event management systems	US	Published	16/531,896	8/5/2019			SmartDrive Systems, Inc.
System and method to detect execution of driving maneuvers	US	Pending	16/682,894	11/13/2019			SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
System and method for detecting a vehicle event and generating review criteria	US	Allowed	14/540,825	11/13/2014			SmartDrive Systems, Inc.
Systems and methods for generating data describing physical surroundings of a ve...	US	Pending	16/025,852	7/2/2018			SmartDrive Systems, Inc.
Systems and methods for comparing driving performance for simulated driving	US	Published	16/025,799	7/2/2018			SmartDrive Systems, Inc.
Systems and methods for creating and using risk profiles for fleet management of a fleet of vehicles	US	Pending	16/400,841	5/1/2019			SmartDrive Systems, Inc.
Systems and methods for using risk profiles based on previously detected vehicle operators	US	Pending	16/400,874	5/1/2019			SmartDrive Systems, Inc.
Systems and methods for using risk profiles for creating and deploying new vehicle event definitions to a fleet of vehicles	US	Pending	16/400,903	5/1/2019			SmartDrive Systems, Inc.
Systems and methods for determining and using posted speed limits for vehicles	US	Pending	16/279,859	2/19/2019			SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Vehicle fuel consumption monitor and feedback systems	US	Pending	16/280,922	2/20/2019			SmartDrive Systems, Inc.
Autonomous Vehicle Operator Performance Tracking	US	Pending	16/818,500	3/13/2020			SmartDrive Systems, Inc.
Systems and method to trigger vehicle events based on contextual information	US	Pending	16/891,486	6/3/2020			SmartDrive Systems, Inc.
[Unpublished]	US	Pending	17/175,132	2/12/2021			SmartDrive Systems, Inc.
[Unpublished]	US	Pending	17/235,877	4/20/2021			SmartDrive Systems, Inc.
Measuring operator readiness and readiness testing triggering in an autonomous vehicle	US	Pending	16/899,377	6/11/2020			SmartDrive Systems, Inc.
System and method to determine responsiveness of a driver of a vehicle to feedback regarding driving behaviors	US	Pending	17/062,261	10/2/2020			SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR CAPTURING AND OFFLOADING DIFFERENT INFORMATION BASED ON EVENT TRIGGER TYPE	US	Pending	17/079,902	10/26/2020			SmartDrive Systems, Inc.

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
SYSTEMS AND METHODS FOR GENERATING AND PROVIDING TIMELY VEHICLE EVENT INFORMATION	US	Pending	17/079,775	10/26/2020			SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR USING A DISTRIBUTED DATA CENTER TO CREATE MAP DATA	US	Pending	17/080,164	10/26/2020			SmartDrive Systems, Inc.
SYSTEMS AND METHODS FOR VERIFYING WHETHER VEHICLE OPERATORS ARE PAYING ATTENTION	US	Pending	17/073,077				SmartDrive Systems, Inc.
Fleet vehicle management systems and methods	US	Published	16/110926	8/23/2018			XRS Corporation
Network communications for transportation management	US	Published	16/522148	7/25/2019			XRS Corporation
Transportation recorder for vehicle	US	Published	14/061456	10/23/2013			XRS Corporation
Apparatus and Method for Providing a Digital Garage	US	Pending	15/138001	4/25/2016			Audatex North America, LLC (f/k/a Audatex North America Inc.)
Vehicle Partitioner	US	Published	15/670439	8/7/2017			Audatex North America, LLC

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
							(f/k/a Audatex North America Inc.)
Photo Guide for Vehicle	US	Allowed	13/601035	8/31/2012			Audatex North America, LLC (f/k/a Audatex North America Inc.)
VIN Based Insurance Claim System	US	Published	16/684165	11/14/2019			Audatex North America, LLC (f/k/a Audatex North America Inc.)
Methods, Systems, and Devices for Providing Communication Between a Vehicle Service Center and a Mobile Computing Device	US	Pending	13/733020	1/2/2013			DMEAutomotive LLC
Apparatus and Method for Combined Visual Intelligence	US	Published	16/590574	10/2/2019			Solera Holdings, LLC (f/k/a Solera Holdings, Inc.)
Apparatus and Method for Providing an Electronic User Manual	US	Published	16/576953	9/20/2019			Solera Holdings, LLC (f/k/a Solera Holdings, Inc.)
System and Method for Monitoring Battery Health	US	Published	16/682785	11/13/2019			Solera Holdings, LLC (f/k/a Solera Holdings, Inc.)

Title	Country	Status	App No.	Date Filed	Patent #	Grant Date	Owner
Vehicle number identification (vin)-based telematics device location tracking	US	Pending Provisional	63/056384	7/24/2020	N/A	N/A	OmniTracs, LLC

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