

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5573584

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
GRIDSMART TECHNOLOGIES, INC.	06/06/2019

**RECEIVING PARTY DATA**

<b>Name:</b>	CUBIC CORPORATION
<b>Street Address:</b>	9333 BALBOA AVENUE
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92123

**PROPERTY NUMBERS Total: 16**

Property Type	Number
Application Number:	16395033
Application Number:	16395807
Application Number:	16395826
Application Number:	16395853
Application Number:	16395038
Application Number:	16395878
Application Number:	16394997
Application Number:	16395079
Application Number:	16395137
Application Number:	62664031
Application Number:	16395019
Application Number:	16395088
PCT Number:	US2019029706
PCT Number:	US2019029719
PCT Number:	US2019029723
PCT Number:	US2019029710

**CORRESPONDENCE DATA**

**Fax Number:** (303)571-4321

*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.*

**PATENT**

**Phone:** 404-815-6500  
**Email:** prader@kilpatricktownsend.com  
**Correspondent Name:** KILPATRICK TOWNSEND & STOCKTON LLP  
**Address Line 1:** 1100 PEACHTREE STREET, N.E.  
**Address Line 2:** SUITE 2800  
**Address Line 4:** ATLANTA, GEORGIA 30309

<b>ATTORNEY DOCKET NUMBER:</b>	GRIDSMART - CUBIC
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<b>NAME OF SUBMITTER:</b>	PAMELA RADER
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<b>SIGNATURE:</b>	/Pamela Rader/
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<b>DATE SIGNED:</b>	06/14/2019
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**Total Attachments: 5**

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**PATENT ASSIGNMENT**

WHEREAS, as of **Gridsmart Technologies, Inc., June 6, 2019**, ("**Assignor**"), a Delaware corporation, owns (a) all rights in patents identified on the attached Schedule A, and all patent applications filed either from such patents, patent applications or provisional applications or from an application claiming priority from any of these, including divisionals, continuations, continuations-in-part, provisionals, converted provisionals, and continued prosecution applications, (b) any and all patents that have issued or in the future issue from the foregoing patent applications, including utility models, petty patents and design patents and certificates of invention, (c) any and all extensions or restorations by existing or future extension or restoration mechanisms, including revalidations, reissues, re-examinations and extensions (including any supplementary protection certificates and the like) of the foregoing patents or patent applications), and (d) any foreign counterparts of the foregoing (hereafter the "**Patents and Patent Applications**");

WHEREAS, **Cubic Corporation** ("**Assignee**"), a Delaware corporation, desires to acquire all right, title, and interest in and to the Patents and Patent Applications;

NOW, THEREFORE, as of the Effective Date, in consideration for one dollar, paid by Assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor does hereby acknowledge that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto Assignee, its successors, legal representatives, and assigns, Assignor's entire right, title, and interest in, to, and under the said Patents and Patent Applications, and including, but not limited to the right to sue for past and future damages and seek injunctive relief for:

all inventions (hereafter "Inventions") set forth in the Patents and Patent Applications;

all patents that may be granted on the Patent Applications;

all applications that the Patents and Patent Applications may claim priority to;

all applications claiming priority to the Patents and Patent Applications, including, but not limited to, all divisions, continuations, and continuations-in-part, and all Letters Patent which may be granted thereon and all reissues, reexaminations, supplemental examinations, and extensions thereof;

all applications or patents claiming the Inventions,

the right to file applications for patent on the Inventions, including, but not limited to, all rights under applicable laws; and

all rights of priority under applicable law and any applications for Letters Patent that may hereafter be filed or granted and all extensions, renewals, and reissues thereof.

ASSIGNOR DOES HEREBY authorize and request the Commissioner of Patents of the United States, and any other applicable Official foreign or domestic whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patents resulting from the Patents and Patent Applications to Assignee, its successors, legal representatives, and assigns, in accordance with the terms of this Assignment;

AND ASSIGNOR DOES HEREBY sell, assign, transfer and convey to Assignee, its successors, legal representatives, and assigns all claims for past and future damages, including, but not limited to lost profits, royalties, and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to Assignee, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Patents and Patent Applications before or after issuance; and,

AND ASSIGNOR DOES HEREBY covenant and agree that Assignor will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to Assignor respecting the Patents and Patent Applications, and testify in any legal proceeding, assist in the preparation of any other documentation relating to the Patents and Patent Applications, sign/execute all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Patents and Patent Applications, including, but not limited to, any patents or patent applications claiming priority thereto, and generally do everything possible to aid the Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Patents and Patent Applications in all countries.

**Gridsmart Technologies, Inc.**

("Assignor")

By: 

Name Printed: William Malkes

Title: Vice President &  
General Manager

**Cubic Corporation**

("Assignee")

By: \_\_\_\_\_

Name Printed: James R. Edwards

Title: Senior Vice President, General  
Counsel & Secretary

ASSIGNOR DOES HEREBY authorize and request the Commissioner of Patents of the United States, and any other applicable Official foreign or domestic whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patents resulting from the Patents and Patent Applications to Assignee, its successors, legal representatives, and assigns, in accordance with the terms of this Assignment;

AND ASSIGNOR DOES HEREBY sell, assign, transfer and convey to Assignee, its successors, legal representatives, and assigns all claims for past and future damages, including, but not limited to lost profits, royalties, and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to Assignee, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Patents and Patent Applications before or after issuance; and,

AND ASSIGNOR DOES HEREBY covenant and agree that Assignor will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to Assignor respecting the Patents and Patent Applications, and testify in any legal proceeding, assist in the preparation of any other documentation relating to the Patents and Patent Applications, sign/execute all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Patents and Patent Applications, including, but not limited to, any patents or patent applications claiming priority thereto, and generally do everything possible to aid the Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Patents and Patent Applications in all countries.

**Gridsmart Technologies, Inc.**

("Assignor")

By: \_\_\_\_\_

Name Printed: William Malkes

Title: Vice President &  
General Manager

**Cubic Corporation**

("Assignee")

By:  \_\_\_\_\_

Name Printed: James R. Edwards

Title: Senior Vice President, General  
Counsel & Secretary

**SCHEDULE A**

Cubic Ref.	KTS Matter Number	Gridsmart Ref.	Application Number	Filing Date	INVENTOR(S)	TITLE
PD904NP	077205-1138970	GRID-0012	16/395,033	4/25/2019	William S. Overstreet	MODIFYING OPERATIONAL SETTINGS OF A TRAFFIC SIGNAL
PD905NP	077205-1138971	GRID-0013	16/395,807	4/26/2019	William A. Malkes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	CORRECTING LOCATION DATA OF CONNECTED VEHICLE
PD905PCT	077205-1138984	GRID-0013	PCT/US19/29706	4/29/2019	William A. Malkes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	CORRECTING LOCATION DATA OF CONNECTED VEHICLE
PD906NP	077205-1138972	GRID-0014	16/395,826	4/26/2019	Timothy F. Gee; Jeffery R. Price	OPTIMIZING THE CONTENT OF A DIGITAL OMNIDIRECTIONAL IMAGE
PD907NP	077205-1138973	GRID-0015	16/395,853	4/26/2019	William A. Malkes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	ADAPTIVELY CONTROLLING TRAFFIC MOVEMENTS FOR PEDESTRIAN SAFETY
PD907PCT	077205-1138985	GRID-0015	PCT/US19/29719	4/29/2019	William A. Malkes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	ADAPTIVELY CONTROLLING TRAFFIC MOVEMENTS FOR PEDESTRIAN SAFETY
PD908NP	077205-1138974	GRID-0016	16/395,038	4/25/2019	William A. Malkes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	IMPROVING PEDESTRIAN WALKING ROUTES USING A SMART TRAFFIC CONTROL SYSTEM
PD909NP	077205-1138975	GRID-0017	16/395,878	4/26/2019	William A. Malkes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	OPTIMIZING EMERGENCY SERVICES LOGISTICS BASED ON SMART TRAFFIC CONTROL SYSTEM DATA
PD910NP	077205-1138976	GRID-0018	16/394,997	4/25/2019	William A. Malkes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	DETERMINING VEHICULAR INSURANCE PREMIUM ADJUSTMENTS

**PATENT**

**SCHEDULE A**

Cubic Ref.	KTS Matter Number	Gridsmart Ref.	Application Number	Filing Date	INVENTOR(S)	TITLE
PD911NP	077205-1138977	GRID-0019	16/395,079	4/25/2019	William A. Malikes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	ADAPTIVE TRAFFIC CONTROL BASED ON WEATHER CONDITIONS
PD912NP	077205-1138978	GRID-0020	16/395,137	4/25/2019	William A. Malikes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	BROADCASTING DETAILS OF OBJECTS AT AN INTERSECTION
PD912PCT	077205-1138986	GRID-0020	PCT/US19/29723	4/29/2019	William A. Malikes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	BROADCASTING DETAILS OF OBJECTS AT AN INTERSECTION
PD954PROV	077205-1138983	GRID-0021	62/664,031	4/27/2018	William A. Malikes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	SYSTEM AND A METHOD OF ELIMINATING EFFECTS OF ENVIRONMENTAL CONDITIONS ON IMAGES CAPTURED BY AN OMNIDIRECTIONAL CAMERA
PD954NP	077205-1138979	GRID-0021	16/395,019	4/25/2019	William A. Malikes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	ELIMINATING EFFECTS OF ENVIRONMENTAL CONDITIONS OF IMAGES CAPTURED BY AN OMNIDIRECTIONAL CAMERA
PD913NP	077205-1138980	GRID-0022	16/395,088	4/25/2019	William A. Malikes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	ADAPTIVELY CONTROLLING TRAFFIC MOVEMENTS FOR DRIVER SAFETY
PD913PCT	077205-1138987	GRID-0022	PCT/US19/29710	4/29/2019	William A. Malikes; William S. Overstreet; Jeffery R. Price; Michael J. Tourville	ADAPTIVELY CONTROLLING TRAFFIC MOVEMENTS FOR DRIVER SAFETY

**PATENT**