

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT7264631

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST
<b>SEQUENCE:</b>	1

**CONVEYING PARTY DATA**

Name	Execution Date
WILMINGTON TRUST, NATIONAL ASSOCIATION, AS COLLATERAL AGENT	02/18/2022

**RECEIVING PARTY DATA**

<b>Name:</b>	CHARLESTON MARINE CONTAINERS, INC.
<b>Street Address:</b>	10680 TREENA STREET
<b>Internal Address:</b>	SUITE 600
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92131
<b>Name:</b>	DIGITAL FUSION, INC.
<b>Street Address:</b>	4904 RESEARCH DRIVE NW
<b>City:</b>	HUNTSVILLE
<b>State/Country:</b>	ALABAMA
<b>Postal Code:</b>	35805
<b>Name:</b>	KRATOS INTEGRAL HOLDINGS, LLC
<b>Street Address:</b>	10680 TREENA STREET
<b>Internal Address:</b>	SUITE 600
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92131
<b>Name:</b>	KRATOS TECHNOLOGY & TRAINING SOLUTIONS, INC.
<b>Street Address:</b>	10680 TREENA STREET
<b>Internal Address:</b>	SUITE 600
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92131
<b>Name:</b>	KRATOS UNMANNED AERIAL SYSTEMS, INC. (F/K/A COMPOSITE ENGINEERING INC.)
<b>Street Address:</b>	2901 DOUGLAS BOULEVARD
<b>City:</b>	ROSEVILLE

PATENT

State/Country:	CALIFORNIA
Postal Code:	95661
Name:	SAT CORPORATION
Street Address:	380 & 388 OAKMEAD PARKWAYS
City:	SUNNYVALE
State/Country:	CALIFORNIA
Postal Code:	94085

**PROPERTY NUMBERS Total: 37**

Property Type	Number
Patent Number:	6480100
Patent Number:	6618009
Patent Number:	6864692
Patent Number:	7115969
Patent Number:	7125212
Patent Number:	7449979
Patent Number:	7340941
Patent Number:	7340491
Patent Number:	6977511
Patent Number:	7252468
Patent Number:	7489017
Patent Number:	7643791
Patent Number:	7393740
Patent Number:	7834799
Patent Number:	8242427
Patent Number:	8842042
Patent Number:	8081111
Patent Number:	8145125
Patent Number:	8068803
Patent Number:	9004408
Patent Number:	8448903
Patent Number:	9264100
Patent Number:	9130624
Patent Number:	9487309
Patent Number:	9577936
Patent Number:	9219631
Patent Number:	9996081
Patent Number:	9967021
Patent Number:	10200071

Property Type	Number
Patent Number:	D502547
Patent Number:	D536154
Patent Number:	D533978
Patent Number:	D533979
Patent Number:	D534330
Patent Number:	D546023
Patent Number:	D610124
Application Number:	15074891

**CORRESPONDENCE DATA**

**Fax Number:** (404)581-8330

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**NAME OF SUBMITTER:** MICHAEL TYDIR

**SIGNATURE:** /Michael Tydir/

**DATE SIGNED:** 04/06/2022

**Total Attachments: 22**

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## RELEASE OF SECURITY INTEREST IN PATENTS

This RELEASE OF SECURITY INTEREST IN PATENTS, dated as of February 18, 2022 (this “Release”), is made by WILMINGTON TRUST, NATIONAL ASSOCIATION, as collateral agent (in such capacity, the “Collateral Agent”), in favor of the Grantors (hereinafter defined below), as follows:

### W I T N E S S E T H

WHEREAS, pursuant to that certain Security Agreement between Collateral Agent and Grantors, dated as of November 20, 2017 (as amended, supplemented, enjoined, amended and restated or otherwise modified, the “Security Agreement”), the Grantors granted to the Collateral Agent a security interest in and to certain collateral;

WHEREAS, pursuant to the Security Agreement, Collateral Agent and Grantors entered into that certain Grant of Security Interest in Patents, dated as of November 20, 2017, among the Grantors and the Collateral Agent (the “Patent Security Agreement”), which was recorded with the United States Patent and Trademark Office on December 1, 2017, at Reel 044593/ Frame 0678;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Collateral Agent hereby agrees as follows:

1. Defined Terms. All capitalized terms used, but not otherwise defined herein, shall have the respective meanings ascribed in or otherwise referenced in the Security Agreement or the Patent Security Agreement, as applicable.

2. Release. The Collateral Agent, without representation or warranty of any kind, hereby releases, discharges, cancels and terminates all of its security interest in and continuing lien on Grantors’ patents and patent applications, including, without limitation, the patents listed on Schedule A attached hereto, and re-assigns, re-transfers and re-conveys to Grantors any and all right, title or interest the Agent may have in and to the Grantors’ patents and patent applications.

3. Further Assurances. Collateral Agent agrees to execute and deliver such further instruments and take or cause to be taken such other or further action as Grantors may reasonably request, at Grantors’ cost and expense, in order to perfect, confirm or evidence such release.

4. Governing Law. This Release shall be governed exclusively under the laws of the State of New York, without regard to conflicts of law or choice of law principles.

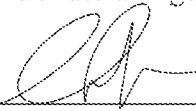
**Grantors:**

CHARLESTON MARINE CONTAINERS, INC.  
DIGITAL FUSION, INC.  
HENRY BROS. ELECTRONICS, INC.

KRATOS INTEGRAL HOLDINGS, LLC  
KRATOS TECHNOLOGY & TRAINING SOLUTIONS, INC.  
KRATOS UNMANNED AERIAL SYSTEMS, INC.  
SAT CORPORATION

IN WITNESS WHEREOF, Collateral Agent, by its duly authorized officer, has executed this Release of Security Interest in Patents as of the date first written above.

WILMINGTON TRUST, NATIONAL  
ASSOCIATION, as Collateral Agent

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

Name: Christopher Spinelli \_\_\_\_\_

Title: Vice President \_\_\_\_\_

**SCHEDULE A**

**U.S. AND FOREIGN PATENTS AND APPLICATIONS**

**KRATOS INTEGRAL HOLDINGS, LLC**

<b>Our Reference</b>	<b>Country</b>	<b>Title</b>	<b>Serial No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issued Date</b>	<b>Status</b>	<b>Pending Action</b>
119085-001SAT	United States	RADIO FREQUENCY IDENTIFICATION TAG FORMATTING METHOD	09/802,730	3/9/2001	6,480,100	11/12/2002	Issued	None/All Maintenance Fees Paid Exp: 7/10/2021
119085-002UTL	United States	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	09/955,224	9/19/2001	6,618,009	9/9/2003	Issued	None/All Maintenance Fees Paid Exp: 7/11/2020
119085-002AU1	Australia	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	200063016	7/31/2000	768011	3/11/2004	Issued	Annuity Due 7/31/2018
119085-002CA1	Canada	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	2,380,802	7/31/2000	2,380,802	12/16/2008	Issued	Annuity Due 7/31/2018
119085-002DE1	Germany	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	00949742.x	7/31/2000	60022889.4	9/28/2005	Issued	Annuity Due 7/31/2018
119085-002EP1	Europe	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	00949742.1	7/31/2000	EP1204882	9/28/2005	Issued	None/validation complete.
119085-002FR1	France	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	00949742.1	7/31/2000	EP1204882	9/28/2005	Issued	Annuity Due 7/31/2018

**PATENT**

**REEL: 059616 FRAME: 0008**



Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-002GB1	United Kingdom	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	00949742.1	7/31/2000	EP1204882	9/28/2005	Issued	Annuity Due 7/31/2018
119085-002IT1	Italy	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	00949742.1	7/31/2000	EP1204882	9/28/2005	Issued	Annuity Due 7/31/2018
119085-002JP1	Japan	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	2001-519206	7/31/2000	4782336	7/15/2011	Issued	Annuity Due 7/15/2018
119085-002KR1	Korea	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	2002-7002169	7/31/2000	0810923	2/29/2008	Issued	Annuity Due 2/28/2018
119085-002LU1	Luxembourg	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	00949742.1	7/31/2000	EP1204882	9/28/2005	Issued	Annuity Due 7/31/2018
119085-002MX1	Mexico	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	PA/a/2002/001697	7/31/2000	227908	5/19/2005	Issued	None/All Annuities Paid Exp. 07/31/2020
119085-002SG1	Singapore	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	2002005510	7/31/2000	86622	6/30/2004	Issued	Annuity Due 7/31/2018
119085-002ZA1	South Africa	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	2002/00799	7/31/2000	2002/00799	6/25/2003	Issued	Annuity Due 7/31/2018

PATENT

REEL: 059616 FRAME: 0009

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-003US1	United States	SATELLITE EPHEMERIS ERROR	12/293,186	9/16/2008	8,842,042	9/23/2015	Issued	1 <sup>st</sup> maintenance fee due 3/23/2018
119085-003AU1	Australia	SATELLITE EPHEMERIS ERROR	2007-232452	3/22/2007	2007232452	5/17/2012	Issued	Annuity Due 3/22/2018
119085-003BR1	Brazil	SATELLITE EPHEMERIS ERROR	PI0708831-0	3/22/2007	N/A	N/A	Pending	Awaiting first action. Annuity Due 3/22/2018
119085-003CA1	Canada	SATELLITE EPHEMERIS ERROR	2,645,572	3/22/2007	2645572	6/16/2015	Issued	Annuity Due 3/22/2018
119085-003EP1	Europe	SATELLITE EPHEMERIS ERROR	07732103.2	3/22/2007	2002279	6/15/2016	Issued	None/validation complete
119085-003AT1	Austria	SATELLITE EPHEMERIS ERROR	07732103.2	3/22/2007	2002279	6/15/2016	Issued	Annuity due 3/22/2018
119085-003DE1	Germany	SATELLITE EPHEMERIS ERROR	07732103.2	3/22/2007	6020070466 52.0	6/15/2016	Issued	Annuity Due 3/22/2018
119085-003ES1	Spain	SATELLITE EPHEMERIS ERROR	07732103.2	3/22/2007	2002279	6/15/2016	Issued	Annuity due 3/22/2018
119085-003FR1	France	SATELLITE EPHEMERIS ERROR	07732103.2	3/22/2007	2002279	6/15/2016	Issued	Annuity due 3/22/2018
119085-003GB2	United Kingdom	SATELLITE EPHEMERIS ERROR	07732103.2	3/22/2007	2002279	6/15/2016	Issued	Annuity due 3/22/2018
119085-003IT1	Italy	SATELLITE EPHEMERIS ERROR	07732103.2	3/22/2007	2002279	6/15/2016	Issued	Annuity due 3/22/2018
119085-003LU1	Luxembourg	SATELLITE EPHEMERIS ERROR	07732103.2	3/22/2007	2002279	6/15/2016	Issued	Annuity due 3/22/2018
119085-003KR1	Korea	SATELLITE EPHEMERIS ERROR	10-2008-7026582	3/22/2007	10-1316729	10/2/2013	Issued	Annuity due 10/02/2018
119085-003MX1	Mexico	SATELLITE EPHEMERIS ERROR	MX/a/2008/012309	3/22/2007	285558	4/11/2011	Issued	Annuity Due 3/22/2021
119085-003SG1	Singapore	SATELLITE EPHEMERIS ERROR	200807051-8	3/22/2007	146261	4/29/2011	Issued	Annuity Due 3/22/2018
119085-003ZA1	South Africa	SATELLITE EPHEMERIS ERROR	2008/08080	3/22/2007	2008/08080	6/24/2009	Issued	Annuity Due 3/22/2018
119085-005UTL	United States	INCLINATION VECTOR CONTROL WITH CONTINUOUS OR QUASI-CONTINUOUS MANEUVERS	12/930,716	1/13/2011	9,004,408	4/14/2015	Issued	1 <sup>st</sup> Maintenance Fee due 10/14/2018

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-006UTL	United States	LONGITUDE-DRIFT PHASE PLANE CONTROL WITH CONTINUOUS OR QUASI-CONTINUOUS MANEUVERS	12/931,005	1/21/2011	8,448,903	5/28/2013	Issued	2 <sup>nd</sup> Maintenance fee due 11/28/2020
119085-007US1	United States	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	12/312,159	4/28/2009	8,081,111	12/20/2011	Issued	2 <sup>nd</sup> Maintenance Fee Due 6/20/2019
119085-007EP1	Europe	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	07824344.1	10/29/2007	2076788	10/10/2012	Issued	None/validation complete.
119085-007AT1	Austria	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	AT E579190	10/29/2007	2076788	10/10/2012	Issued	Annuity Due 10/29/2018
119085-007FR1	France	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	07824344.1	10/29/2007	2076788	10/10/2012	Issued	Annuity due 10/29/2018
119085-007DE1	Germany	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	60 2007 026 042.6	10/29/2007	2076788	10/10/2012	Issued	Annuity Due 10/29/2018
119085-007ES1	Spain	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	07824344.1	10/29/2007	2076788	10/10/2012	Issued	Annuity Due 10/29/2018
119085-007GB1	United Kingdom	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	0621486.0	10/28/2006	GB2443226	8/17/2011	Issued	Annuity Due 10/28/2018

PATENT

REEL: 059616 FRAME: 0011

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-0071T1	Italy	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	3673 BE/2012	10/29/2007	2076788	10/10/2012	Issued	Annuity Due 10/29/2018
119085-007LU1	Luxembourg	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	07824344.1	10/29/2007	2076788	10/10/2012	Issued	Annuity Due 10/29/2018
119085-007EP2	Europe	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	12159261.2	10/29/2007	2466327	12/03/2014	Issued	None/validation complete.
119085-007AT2	Austria	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	12159261.	10/29/2007	699902	12/03/2014	Issued	Annuity due 10/29/2018
119085-007DE2	Germany	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	60 2007 039 593.3	10/29/2007	2466327	12/03/2014	Issued	Annuity due 10/29/2018
119085-007ES2	Spain	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	12159261.2	10/29/2007	2466327	12/03/2014	Issued	Annuity due 10/29/2018
119085-007FR2	France	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	12159261.2	10/29/2007	2466327	12/03/2014	Issued	Annuity due 10/29/2018
119085-007GB2	United Kingdom	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	12159261.2	10/29/2007	2466327	12/03/2014	Issued	Annuity due 10/29/2018

PATENT

REEL: 059616 FRAME: 0012

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-0071T2	Italy	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	12159261.2	10/29/2007	2466327	12/03/2014	Issued	Annuity due 10/29/2018
119085-007LU2	Luxembourg	METHOD AND APPARATUS FOR LOCATING THE SOURCE OF AN UNKNOWN SIGNAL	12159261.2	10/29/2007	2466327	12/03/2014	Issued	Annuity due 10/29/2018
119085-011UT1	United States	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	13/843,393	3/15/2013	9,130,624	09/08/2015	Granted	1 <sup>st</sup> maintenance fee due 03/08/2019
119085-011CP1	United States	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	14/602,073	1/21/2015	9,219,631	12/22/2015	Granted	Reissue deadline 12/22/2017 1 <sup>st</sup> maintenance fee due 06/22/2019
119085-011AU1	Australia	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	2013317835	09/20/2013	N/A	N/A	Pending	Annuity due 09/20/2018
119085-011CA1	Canada	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	2885222	09/20/2013	N/A	N/A	Pending	Annuity due 9/20/2018; Examination request deadline 9/20/2018
119085-011EP1	Europe	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	13771715.3	09/20/2013	2898601	09/14/2016	Granted	None/validation formalities complete.
119085-011AT1	Austria	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	13771715.3	09/20/2013	2898601	09/14/2016	Granted	Annuity due 9/20/2019

PATENT

REEL: 059616 FRAME: 0013

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-011DE1	Germany	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	13771715.3	09/20/2013	6020130116 74.3	09/14/2016	Granted	Annuity due 9/20/2018
119085-011ES1	Spain	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	13771715.3	09/20/2013	2898601	09/14/2016	Granted	Annuity due 9/20/2018
119085-011FR1	France	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	13771715.3	09/20/2013	2898601	09/14/2016	Granted	Annuity due 9/20/2018
119085-011GB1	United Kingdom	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	13771715.3	09/20/2013	2898601	09/14/2016	Granted	Annuity due 9/20/2018
119085-011IT1	Italy	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	13771715.3	09/20/2013	2898601	09/14/2016	Granted	Annuity due 9/20/2018
119085-011LU1	Luxembourg	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	13771715.3	09/20/2013	2898601	09/14/2016	Granted	Annuity due 9/20/2018
119085-011JP1	Japan	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	2015-533226	09/20/2013	N/A	N/A	Pending	Awaiting patent office communication
119085-011SG1	Singapore	ENVELOPE FEEDBACK INTERFERENCE REDUCTION AND DATA THROUGHPUT MAXIMIZATION	1120150148 4V	09/20/2013	201601	12/15/2015	Granted	Annuity due 9/20/2018

PATENT

REEL: 059616 FRAME: 0014

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-012UT1	United States	ECCENTRICITY CONTROL FOR GEOSYNCHRONOUS SATELLITES	14/282,717	5/20/2014	9,487,309	11/08/2016	Granted	Reissue deadline 11/08/2018 1st maintenance fee due 05/08/2020
119085-012AU1	Australia	ECCENTRICITY CONTROL FOR GEOSYNCHRONOUS SATELLITES	2014268743	05/20/2014	N/A	N/A	Pending	Acceptance Deadline 2/17/2018 Voluntary Amendment deadline 5/20/2019 Annuity due 5/20/2018
119085-012CA1	Canada	ECCENTRICITY CONTROL FOR GEOSYNCHRONOUS SATELLITES	2911417	05/20/2014			Published	Annuity due 5/20/2018 Examination request deadline 05/20/2019
119085-012EP1	Europe	ECCENTRICITY CONTROL FOR GEOSYNCHRONOUS SATELLITES	14748001.6	05/20/2014			Published	Annuity due 5/20/2018 Awaiting patent office communication
119085-012IL1	Israel	ECCENTRICITY CONTROL FOR GEOSYNCHRONOUS SATELLITES	241851	05/20/2014			Pending	Response to Pre-Examination Notice due 04/05/2018
119085-012JP1	Japan	ECCENTRICITY CONTROL FOR GEOSYNCHRONOUS SATELLITES	2016-515003	05/20/2014			Pending	Awaiting patent office communication
119085-012SG1	Singapore	ECCENTRICITY CONTROL FOR GEOSYNCHRONOUS SATELLITES	11201507850	05/20/2014		3/08/2017	Granted	Annuity due 05/20/2018
119085-015AU1	Australia	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	2015248234	1/22/2015			Pending	Annuity due 1/22/2019 Awaiting patent office communication

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-015BR1	Brazil	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	BR112016015926-8	1/22/2015			Pending	Annuity due 1/22/2019 Request for Examination due 1/22/2018
119085-015CA1	Canada	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	2,936,825	1/22/2015			Pending	Annuity due 1/22/2019 Request for Examination due 1/22/2020
119085-015EP1	Europe	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	15750482.0	1/22/2015	3097673	9/13/2017	Granted	None/validation formalities
119085-015AT1	Austria	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	15750482.0	1/22/2015	3097673	9/13/2017	Granted	Annuity due 1/22/2018
119085-015DE1	Germany	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	15750482.0	1/22/2015	3097673	9/13/2017	Granted	Annuity due 1/22/2018
119085-015ES1	Spain	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	15750482.0	1/22/2015	3097673	9/13/2017	Granted	Annuity due 1/22/2018
119085-015FR1	France	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	15750482.0	1/22/2015	3097673	9/13/2017	Granted	Annuity due 1/22/2018
119085-015GB1	United Kingdom	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	15750482.0	1/22/2015	3097673	9/13/2017	Granted	Annuity due 1/22/2018
119085-015IT1	Italy	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	15750482.0	1/22/2015	3097673	9/13/2017	Granted	Annuity due 1/22/2018

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Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-015LU1	Luxembourg	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	15750482.0	1/22/2015	3097673	9/13/2017	Granted	Annuity due 1/22/2018
119085-015IL1	Israel	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	246126	1/22/2015			Pending	Awaiting first action
119085-015JP1	Japan	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	2016-544545	1/22/2015			Pending	Request for Examination due 1/22/2018
119085-015SG1	Singapore	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	1120160473 5Y	1/22/2015			Pending	Supplementary Examination due 7/23/2018
119085-015ZA1	South Africa	SYSTEM AND METHOD FOR INCREASING SPOT BEAM SATELLITE BANDWIDTH	2016/04378	1/22/2015			Pending	Annuity due 1/22/2019
119085-016UT1	United States	PACKETIZED RADIO FREQUENCY TRANSPORT SYSTEM	14/509,710	10/08/2014	9,577,936	1/21/2017	Granted	Reissue deadline 2/21/2019 1 <sup>st</sup> maintenance fee due 08/21/2020
119085-016AU1	Australia	PACKETIZED RADIO FREQUENCY TRANSPORT SYSTEM	2015223504	2/3/2015			Pending	Awaiting patent office communication Annuity due 2/3/2019
119085-016BR1	Brazil	PACKETIZED RADIO FREQUENCY TRANSPORT SYSTEM	BR11201601 94454	2/3/2015			Pending	Request for Examination 2/3/2018 Annuity due 2/3/2019
119085-016CA1	Canada	PACKETIZED RADIO FREQUENCY TRANSPORT SYSTEM	2,939,868	2/3/2015			Pending	Request for Examination due 2/3/2020 Annuity due 2/3/2019

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-016EP1	Europe	PACKETIZED RADIO FREQUENCY TRANSPORT SYSTEM	15705755.5	2/3/2015			Pending	Annuity due 2/3/2019;
119085-016IL1	Israel	PACKETIZED RADIO FREQUENCY TRANSPORT SYSTEM	247154	2/3/2015			Pending	Awaiting first action
119085-016JP1	Japan	PACKETIZED RADIO FREQUENCY TRANSPORT SYSTEM	2016-553637	2/3/2015			Pending	Awaiting patent office communication
119085-016SG1	Singapore	PACKETIZED RADIO FREQUENCY TRANSPORT SYSTEM	11201606453S	2/3/2015			Pending	Supplementary Examination due 8/27/2018
119085-016ZA1	South Africa	PACKETIZED RADIO FREQUENCY TRANSPORT SYSTEM	2016/06033	2/3/2015			Pending	Annuity due 2/03/2019; Awaiting Notice of Allowance
119085-017TU1	United States	SYSTEM AND METHOD FOR SIGNAL CANCELLATION IN SATELLITE COMMUNICATION	15/649,408	7/13/2017			Pending	Awaiting office action
119085-017WO1	WIPO	SYSTEM AND METHOD FOR SIGNAL CANCELLATION IN SATELLITE COMMUNICATION	PCT/US2017/042132	7/14/2017			Pending	Awaiting Search Report
119085-018UT1	United States	SYSTEM AND METHOD FOR INTERFERENCE REDUCTION IN RADIO COMMUNICATIONS	15/670,996	8/07/2017			Pending	Awaiting office action; Foreign Filing due 8/07/2018
119085-019PV1	United States	SYSTEM AND METHOD FOR OPTIMIZING SATELLITE GATEWAY DIVERSITY	62/532,859	7/14/2017			Pending	Foreign Filing and US Utility Filing due 7/14/2018
119085-020PV1	United States	SYSTEM AND METHOD FOR OPTIMIZING SATELLITE GATEWAY DIVERSITY	62/575,270	10/20/2017			Pending	Foreign Filing and US Utility Filing due 10/20/2018 Foreign Filing and US Utility Filing due

Out Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-AVT001	United States	COUPLED RESONATOR FILTERS FORMED BY MICROMACHINING	10/534,289	4/24/2006	7,449,979	11/11/2008	Issued	3 <sup>RD</sup> Maintenance Fee Due 5/11/2020

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**SAT CORPORATION**

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-001SAT	United States	RADIO FREQUENCY IDENTIFICATION TAG FORMATTING METHOD	09/802,730	3/9/2001	6,480,100	11/12/2002	Issued	None/All Maintenance Fees Paid Exp: 7/10/2021

**PATENT**

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**KRATOS TECHNOLOGY & TRAINING SOLUTIONS, INC.**

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
120571-SIC001	United States	METHODS AND APPARATUS FOR DATA PRESERVATION AND SOFTWARE DISTRIBUTION WITHIN AN ENTERPRISE SYSTEM	10/831,322	4/26/2004	7,340,491	3/4/2008	Issued	3 <sup>rd</sup> Maintenance Fee Due 9/4/2019

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**KRATOS TECHNOLOGY & TRAINING SOLUTIONS, INC. – Patents licensed to Seacoast Science  
(Seacoast representative responsible for maintenance fees)**

<b>Our Reference</b>	<b>Country</b>	<b>Title</b>	<b>Serial No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issued Date</b>	<b>Status</b>	<b>Pending Action</b>
120571-KTT03	United States	SENSOR HAVING IMPROVED SENSITIVITY	10/177,133	6/20/2002	6,864,692	3/8/2005	Issued	All maintenance fees paid.
120571-KTT04	United States	SENSOR AND SENSOR ARRAY HAVING IMPROVED SELECTIVITY	11/082,634	3/18/2005	6,977,511	12/20/2005	Issued	All maintenance fees paid.
120571-KTT06	United States	Fixed parallel plate MEMS capacitor and microsensor array and method of making same	10/242,966	9/13/2002	7,115,969	10/3/2006	Issued	3 <sup>rd</sup> Maintenance fee due 4/3/2018
120571-KTT07	United States	FIXED PARALLEL PLATE MEMS CAPACITOR MICROSENSOR ARRAY	11/542,741	10/2/2006	7,489,017	2/10/2009	Issued	3 <sup>rd</sup> Maintenance fee due 8/10/2020
120571-KTT08	United States	Methods for making fixed parallel plate MEMS capacitor microsensors and microsensor arrays	11/725,609	3/20/2007	7,393,740	7/1/2008	Issued	3 <sup>rd</sup> Maintenance fee due 1/1/2020
120571-KTT09	United States	Dense thin film-based chemical sensors and methods for making and using same	10/677,908	10/1/2003	7,340,941	3/11/2008	Issued	3 <sup>rd</sup> Maintenance Fee Due 9/11/2019

**CHARLESTON MARINE CONTAINERS, INC.**

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119693-CMC006	United States	METHOD AND DEVICE FOR ADAPTING A CARGO CONTAINER TO DIRECTLY INTERFACE WITH AN AIRCRAFT CARGO BAY	10/427,994	5/2/2003	7,125,212	10/24/2006	Issued	3 <sup>rd</sup> Maintenance Fee Due 4/24/2018
119693-CMC6DV	United States	METHOD AND DEVICE FOR ADAPTING A CARGO CONTAINER TO DIRECTLY INTERFACE WITH AN AIRCRAFT CARGO BAY	11/396,600	4/4/2006	7,252,468	8/7/2007	Issued	3 <sup>rd</sup> Maintenance Fee Due 2/7/2019
119693-CMC001	United States	CONTAINER	29/215,585	10/22/2004	D536,154	1/30/2007	Issued	Expires 1/30/2021
119693-CMC002	United States	CONTAINER (QUADCON II)	29/222,225	1/28/2005	D534,330	12/26/2006	Issued	Expires 12/26/2020
119693-CMC003	United States	SHIPPING CONTAINER	29/195,318	12/10/2003	D502,547	3/1/2005	Issued	Expires 3/1/2019
119693-CMC004	United States	CONTAINER (TRICON III)	29/222,224	1/28/2005	D533,979	12/19/2006	Issued	Expires 12/19/2020
119693-CMC005	United States	CONTAINER	29/227,909	4/18/2005	D546,023	7/3/2007	Issued	Expires 7/3/2021
119693-CM6DES3	United States	CONTAINER (TRICON IV)	29/222,223	1/28/2005	D533,978	12/19/2006	Issued	Expires 12/19/2020

**PATENT**

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## HENRY BROS. ELECTRONICS, INC.

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119086-001CON	United States	METHOD AND APPARATUS FOR OPTIMIZING SIGNAL PROCESSING	12/621,788	11/19/2009	8,068,803	11/29/2011	Issued	2 <sup>nd</sup> Maintenance Fee Due 5/29/2019
119086-002DES	United States	EMERGENCY COMMUNICATION CONTROLLER AND CONSOLE	29/283,457	8/15/2007	D610,124	2/16/2010	Issued	Expires 2/16/2024
119086-003UTL	United States	EMERGENCY COMMUNICATIONS CONTROLLER AND CONSOLE	12/337,864	12/18/2008	8,145,125	3/27/2012	Issued	2nd Maintenance Fee Due 9/27/2019
119086-003CON	United States	EMERGENCY COMMUNICATIONS CONTROLLER AND CONSOLE	13/409,535	3/1/2012	9,264,100	2/16/2016	Granted	Reissue Deadline 2/16/2018 1 <sup>st</sup> Maintenance Fee Due 8/16/2019

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**DIGITAL FUSION, INC.**

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
120570-001UT1	United States	SYSTEM AND METHOD FOR OPTICALLY CO-REGISTERING PIXELS	12/190,447	8/12/2008	8,242,427	8/14/2012	Issued	2 <sup>nd</sup> maintenance fee due 2/14/2020

**PATENT**

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**KRATOS UNMANNED AERIAL SYSTEMS, INC. (F/ K/ A COMPOSITE ENGINEERING, INC.)**

<b>Our Reference</b>	<b>Country</b>	<b>Title</b>	<b>Serial No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issued Date</b>	<b>Status</b>	<b>Pending Action</b>
120158-001 UTL	United States	SYSTEM AND METHOD FOR FABRICATING COMPOSITE LAMINATE STRUCTURES WITH CO-LAMINATED RADAR ABSORBING MATERIAL	12/154,601	5/23/2008	7,834,799	11/16/2010	Issued	1 <sup>st</sup> maintenance fee due 5/16/2018

**PATENT**

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