

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM727194

<b>SUBMISSION TYPE:</b>	RESUBMISSION
<b>NATURE OF CONVEYANCE:</b>	Release of Amended and Restated Intellectual Property Security Agreement recorded at Reel/Frame 6252/0122
<b>RESUBMIT DOCUMENT ID:</b>	900678735
<b>SEQUENCE:</b>	1

## CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
Truist Bank, successor by merger to SunTrust Bank, as Collateral Agent and Administrative Agent		02/18/2022	Banking Corporation: NORTH CAROLINA

## RECEIVING PARTY DATA

<b>Name:</b>	Kratos Defense & Security 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>Entity Type:</b>	Corporation: DELAWARE
<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>Entity Type:</b>	Corporation: CALIFORNIA
<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>Entity Type:</b>	Corporation: DELAWARE
<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>Entity Type:</b>	Limited Liability Company: MARYLAND
<b>Name:</b>	SAT Corporation
<b>Street Address:</b>	380 & 388 Oakmead Parkways
<b>City:</b>	Sunnyvale
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94085
<b>Entity Type:</b>	Corporation: CALIFORNIA
<b>Name:</b>	Kratos Communications, Inc. (f/k/a Newpoint Technologies, Inc.)
<b>Street Address:</b>	25 Buttrick Road
<b>Internal Address:</b>	Unit 1, Building B
<b>City:</b>	Londonderry
<b>State/Country:</b>	NEW HAMPSHIRE
<b>Postal Code:</b>	03053
<b>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	SecureInfo Corporation
<b>Street Address:</b>	4795 Meadow Wood Lane
<b>Internal Address:</b>	Suite 220
<b>City:</b>	Chantilly
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	20151
<b>Entity Type:</b>	Corporation: DELAWARE
<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
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95661
<b>Entity Type:</b>	Corporation: CALIFORNIA
<b>Name:</b>	General Microwave Corporation
<b>Street Address:</b>	227A Michael Drive
<b>City:</b>	Syosset
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	11791
<b>Entity Type:</b>	Corporation: NEW YORK
<b>Name:</b>	Florida Turbine Technologies, Inc.
<b>Street Address:</b>	1701 Military Trail
<b>Internal Address:</b>	Suite 110, 120, 130

<b>City:</b>	Jupiter
<b>State/Country:</b>	FLORIDA
<b>Postal Code:</b>	33458
<b>Entity Type:</b>	Corporation: FLORIDA
<b>Name:</b>	Ai Metrix, Inc.
<b>Street Address:</b>	One Kingstown Towne Center, 5971 Kingstowne Village Parkway
<b>City:</b>	Alexandria
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	22315
<b>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	Micro Systems, Inc.
<b>Street Address:</b>	35 Hill Avenue
<b>City:</b>	Fort Walton Beach
<b>State/Country:</b>	FLORIDA
<b>Postal Code:</b>	32548
<b>Entity Type:</b>	Corporation: FLORIDA
<b>Name:</b>	Avetc Systems, Inc.
<b>Street Address:</b>	4795 Meadow Wood Lane
<b>Internal Address:</b>	Suite 220
<b>City:</b>	Chantilly
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	20151
<b>Entity Type:</b>	Corporation: VIRGINIA
<b>Name:</b>	BSC Partners, 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>Entity Type:</b>	Limited Liability Company: NEW YORK
<b>Name:</b>	Carksbad ISI, 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>Entity Type:</b>	Corporation: MARYLAND
<b>Name:</b>	Dallastown Realty I, LLC
<b>Street Address:</b>	490 East Locust Street

<b>City:</b>	Dallastown
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	17313
<b>Entity Type:</b>	Limited Liability Company: DELAWARE
<b>Name:</b>	Dallastown Realty II, LLC
<b>Street Address:</b>	490 East Locust Street
<b>City:</b>	Dallastown
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	17313
<b>Entity Type:</b>	Limited Liability Company: DELAWARE
<b>Name:</b>	DFI Realty, 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>Entity Type:</b>	Limited Liability Company: FLORIDA
<b>Name:</b>	Digital Fusion Solutions, Inc.
<b>Street Address:</b>	4904 Research Drive NW
<b>City:</b>	Huntsville
<b>State/Country:</b>	ALABAMA
<b>Postal Code:</b>	35805
<b>Entity Type:</b>	Corporation: FLORIDA
<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>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	DTI Associates, 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>Entity Type:</b>	Corporation: VIRGINIA
<b>Name:</b>	General Microwave Israel Corporation
<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>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	Gichner Systems Group, Inc.
<b>Street Address:</b>	490 East Locust Street
<b>City:</b>	Dallastown
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	17313
<b>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	Gichner Systems International, Inc.
<b>Street Address:</b>	490 East Locust Street
<b>City:</b>	Dallastown
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	17313
<b>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	Haverstick Consulting, 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>Entity Type:</b>	Corporation: INDIANA
<b>Name:</b>	Haverstick Government 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>Entity Type:</b>	Corporation: OHIO
<b>Name:</b>	HGS Holding, 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>Entity Type:</b>	Corporation: INDIANA
<b>Name:</b>	Kratos Defense & Rocket Support Services, 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>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	Kratos Integral Systems International, Inc
<b>Street Address:</b>	5200 Philadelphia Way
<b>City:</b>	Lanham
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20706
<b>Entity Type:</b>	Corporation: CALIFORNIA
<b>Name:</b>	Kratos Space & Missile Defense Systems, 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>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	Kratos Systems and Solutions, Inc.
<b>Street Address:</b>	4795 Meadow Wood Lane
<b>Internal Address:</b>	Suite 220
<b>City:</b>	Chantilly
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	20151
<b>Entity Type:</b>	Corporation: VIRGINIA
<b>Name:</b>	Kratos Unmanned Systems Solutions, Inc.
<b>Street Address:</b>	490 East Locust Street
<b>City:</b>	Dallastown
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	17313
<b>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	LVDM, Inc.
<b>Street Address:</b>	4795 Meadow Wood Lane
<b>Internal Address:</b>	Suite 220
<b>City:</b>	Chantilly
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	20151
<b>Entity Type:</b>	Corporation: NEVADA
<b>Name:</b>	Madison Research Corporation

<b>Street Address:</b>	4904 Research Drive NW
<b>City:</b>	Huntsville
<b>State/Country:</b>	ALABAMA
<b>Postal Code:</b>	35805
<b>Entity Type:</b>	Corporation: ALABAMA
<b>Name:</b>	MSI Acquisition Corp.
<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>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	Polexis, 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>Entity Type:</b>	Corporation: CALIFORNIA
<b>Name:</b>	Reality Based IT Services Ltd.
<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>Entity Type:</b>	Corporation: MARYLAND
<b>Name:</b>	Rocket Support Services, LLC
<b>Street Address:</b>	2409 Peppermill Dr.
<b>Internal Address:</b>	Suite A
<b>City:</b>	Glen Burnie
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20161-3267
<b>Entity Type:</b>	Limited Liability Company: INDIANA
<b>Name:</b>	SCT Acquisition, 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>Entity Type:</b>	Limited Liability Company: DELAWARE
<b>Name:</b>	Shadow I, 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>Entity Type:</b>	Corporation: CALIFORNIA
<b>Name:</b>	Shadow II, 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>Entity Type:</b>	Corporation: CALIFORNIA
<b>Name:</b>	Summit Research Corporation
<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>Entity Type:</b>	Corporation: ALABAMA
<b>Name:</b>	FTT America, LLC
<b>Street Address:</b>	1701 Military Trail
<b>Internal Address:</b>	Suite 110, 120, 130
<b>City:</b>	Jupiter
<b>State/Country:</b>	FLORIDA
<b>Postal Code:</b>	33458
<b>Entity Type:</b>	Limited Liability Company: DELAWARE
<b>Name:</b>	KTT Core, Inc.
<b>Street Address:</b>	1701 Military Trail
<b>Internal Address:</b>	Suite 110, 120, 130
<b>City:</b>	Jupiter
<b>State/Country:</b>	FLORIDA
<b>Postal Code:</b>	33458
<b>Entity Type:</b>	Corporation: DELAWARE
<b>Name:</b>	Consolidated Turbine Specialists LLC
<b>Street Address:</b>	24323 S. 385th West Avenue
<b>City:</b>	Bristow



<b>State/Country:</b>	OKLAHOMA
<b>Postal Code:</b>	74010
<b>Entity Type:</b>	Limited Liability Company: OKLAHOMA

**PROPERTY NUMBERS Total: 55**

<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>
<b>Registration Number:</b>	3623711	KRATOS
<b>Registration Number:</b>	3715806	KRATOS DEFENSE & SECURITY SOLUTIONS
<b>Registration Number:</b>	3664225	KRATOS DEFENSE & SECURITY SOLUTIONS
<b>Registration Number:</b>	3785199	KRATOS DEFENSE & SECURITY SOLUTIONS
<b>Registration Number:</b>	3592181	KRATOS DEFENSE & SECURITY SOLUTIONS
<b>Registration Number:</b>	3592182	KRATOS DEFENSE & SECURITY SOLUTIONS
<b>Registration Number:</b>	3627791	KRATOS DEFENSE & SECURITY SOLUTIONS
<b>Registration Number:</b>	3640405	KRATOS
<b>Registration Number:</b>	3623755	FROM STRENGTH TO SUCCESS
<b>Registration Number:</b>	3640404	KRATOS DEFENSE
<b>Registration Number:</b>	3983805	KRATOS
<b>Registration Number:</b>	4269259	KRATOS INTEGRAL SYSTEMS INTERNATIONAL
<b>Registration Number:</b>	4898840	CYBERC4
<b>Registration Number:</b>	4337948	LUMISTAR
<b>Registration Number:</b>	4474718	EPOCH
<b>Registration Number:</b>	4477628	EPOCH IPS
<b>Registration Number:</b>	4477629	EPOCH T&C
<b>Registration Number:</b>	4765022	QUANTUMCMD
<b>Registration Number:</b>	4863590	QUANTUM COMMAND
<b>Registration Number:</b>	4765070	SPECTRALNET
<b>Registration Number:</b>	3123564	TRICOLD
<b>Registration Number:</b>	2854549	LSA
<b>Registration Number:</b>	4442102	COMPASS
<b>Registration Number:</b>	2718505	SATID
<b>Registration Number:</b>	2408731	ABE
<b>Registration Number:</b>	4034045	RT LOGIC AN INTEGRAL SYSTEMS COMPANY
<b>Registration Number:</b>	5240617	RT LOGIC
<b>Registration Number:</b>	4185208	RT LOGIC
<b>Registration Number:</b>	2603866	TELEMETRIX
<b>Registration Number:</b>	3993807	WEBIC
<b>Registration Number:</b>	4034314	INTEGRAL SYSTEMS
<b>Registration Number:</b>	4059075	TRUENORTH
<b>Registration Number:</b>	2673042	MONICS

Property Type	Number	Word Mark
Registration Number:	3597999	SAT-DSA
Registration Number:	2727623	SIGMON
Registration Number:	2328161	NEWPOINT
Registration Number:	2325495	NEWPOINT COMPASS
Registration Number:	2328160	NEWPOINT
Registration Number:	2970216	SECUREINFO
Registration Number:	3494758	SECUREINFO RMS
Registration Number:	3494757	SECUREINFO THE INFORMATION ASSURANCE EXP
Registration Number:	4342498	CEI
Registration Number:	4566219	CEI
Registration Number:	4446261	CEI
Registration Number:	4357228	COMPOSITE ENGINEERING INC.
Registration Number:	2867365	DOPPLER VUE
Registration Number:	3170480	
Registration Number:	3170447	NEURALSTAR
Serial Number:	86790953	M-PAK
Serial Number:	86790988	M-PAK DRIVERLESS TECHNOLOGY
Serial Number:	86969817	WOLF-PAK
Serial Number:	86969692	AIR, LAND, AND SEA WOLF-PAK SWARMING TEC
Registration Number:	1883355	RF RADIATION BADGE
Registration Number:	1313267	RAHAM
Registration Number:	0787130	GENERAL MICROWAVE

**CORRESPONDENCE DATA**

**Fax Number:** 4045818330

*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:** 4045818136

**Email:** mtydir@jonesday.com

**Correspondent Name:** Michael Tydir, Jones Day

**Address Line 1:** 1221 Peachtree Street, NE

**Address Line 2:** Suite 400

**Address Line 4:** Atlanta, GEORGIA 30361

**NAME OF SUBMITTER:** Michael Tydir

**SIGNATURE:** /Michael Tydir/

**DATE SIGNED:** 05/11/2022

**Total Attachments: 100**

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**RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY**

**THIS RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY** (this “Release”) is made this 18th day of February, 2022, by TRUIST BANK, successor by merger to SunTrust Bank, as collateral agent and administrative agent (in such capacities, “Agent”).

**WHEREAS**, reference is made to a certain Amended and Restated Intellectual Property Security Agreement, dated as of November 20, 2017 and recorded with the United States Patent and Trademark Office on December 7, 2017, at **Reel 044742 Frame 0845** (as amended, restated, amended and restated, supplemented and/or modified to date, including as supplemented by that certain Supplement No. 1 to Amended and Restated Intellectual Property Security Agreement, dated as of March 1, 2019, the “IP Security Agreement”), by each of the parties identified on the signature pages thereto as “Grantors” (collectively, the “Grantors”), in favor of Agent for the benefit of the Lenders. Capitalized terms used herein and not otherwise defined shall have the meanings ascribed thereto in the IP Security Agreement.

**WHEREAS**, under the IP Security Agreement, Grantors granted to Agent for the benefit of the Lenders, a continuing security interest in all of the right, title and interest of Grantors in and to the Collateral identified therein, including, but not limited to, the Collateral set forth on Schedule I attached hereto (the “Released Collateral”).

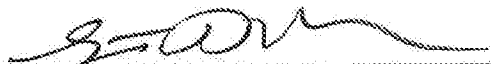
**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Agent hereby releases any and all liens on, and its security interest in and to the Released Collateral, and authorizes the recordation of this Release by Grantors or their designee with the United States Patent and Trademark Office.

This Release shall be governed by and construed in accordance with the laws of the State of New York without regard to conflicts of law principles.

**[SIGNATURE PAGE FOLLOWS]**

IN WITNESS WHEREOF, Agent has caused this Release to be duly executed by its authorized officer as of the day and year first written above.

TRUIST BANK

By:   
Name: Steve Metts  
Title: Director

[SIGNATURE PAGE TO RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY]

#155871263

TRADEMARK  
REEL: 007715 FRAME: 0473



**SCHEDULE I**

[Attached]



**TRADEMARKS****KRATOS DEFENSE & SECURITY SOLUTIONS, INC.**

<b>APPLICANT/ FILE NO.</b>	<b>COUNTRY</b>	<b>MARK</b>	<b>CLASS/SERVICES</b>	<b>Serial No. Filing Date</b>	<b>Reg. No. Issue Date</b>	<b>STATUS</b>
120575-03US01 120575-1H	U.S.	KRATOS	42 = See attached Description "A"	77/248,392 8/6/07	3,623,711 5/19/09	Renewal due between 5/19/18 and 5/19/19
120575-06US05 120575-1G	U.S.	KRATOS DEFENSE & SECURITY SOLUTIONS	42 = See attached Description "A"	77/248,414 8/6/07	3,715,806 11/24/09	Renewal due between 11/24/18 and 11/24/19
120575-06US04 120575-1F	U.S.	KRATOS DEFENSE & SECURITY SOLUTIONS	9 = Home, office and building automation and security systems comprising wireless and wired controllers, controlled devices, software and computer hardware for lighting, HV/AC, security, safety and other home, office and building monitoring and control applications; building security systems comprising hardware and software for providing picture, video, alarm status, building plans, environmental, access and security information to a remote station	77/248,426 8/6/07	3,664,225 8/4/09	Renewal due between 8/4/18 and 8/4/19
120575-06US03 120575-1E	U.S.	KRATOS DEFENSE & SECURITY SOLUTIONS	37 = Installation of security systems	77/248,436 8/6/07	3,785,199 5/4/10	Renewal due between 5/4/19 and 5/4/20

APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120575-06US02 120575-1D	U.S.	KRATOS DEFENSE & SECURITY SOLUTIONS	38 = Telecommunication services, namely, providing building environmental, access and security information to a remote system	77/248,442 8/6/07	3,592,181 3/17/09	Renewal due between 3/17/18 and 3/17/19
120575-06US01 120575-1C	U.S.	KRATOS DEFENSE & SECURITY SOLUTIONS	45 = Control of building environmental, access and security systems; monitoring building environmental, access and security systems	77/248,457 8/6/07	3,592,182 3/17/09	Renewal due between 3/17/18 and 3/17/19
120575-07US01 120575-1I	U.S.	KRATOS DEFENSE & SECURITY SOLUTIONS and Design 	42 = See attached Description "B"	77/267,720 8/29/07	3,627,791 5/26/09	Renewal due between 5/26/18 and 5/26/19
120575-04US01 120575-1J	U.S.	KRATOS and Design 	42 = See attached Description "B"	77/267,714 8/29/07	3,640,405 6/16/09	Renewal due between 6/16/18 and 6/16/19
120575-02US01 120575-1K	U.S.	FROM STRENGTH TO SUCCESS	42 = See attached Description "B"	77/267,704 8/29/07	3,623,755 5/19/09	Renewal due between 5/19/18 and 5/19/19

APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120575-05US01 120575-1L	U.S.	KRATOS DEFENSE	42 = See attached Description "B"	77/267,680 8/29/07	3,640,404 6/16/09	Renewal due between 6/16/18 and 6/16/19
120575-03US01 120575-1N	U.S.	KRATOS	35 = Business services, namely, business management in the public and private sectors in the fields of strategic messaging and communications; business consulting services in the public and private sectors in the fields of strategic messaging and communications, providing strategic outreach services in branding, crisis response, market research and speech writing; business planning and development of electronic communications networks; advertising communications dissemination planning; publications development, namely, publication of publicity texts and	85/015,106 4/15/10	3,983,805 6/28/11	Renewal due between 6/28/20 and 6/28/21

APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
			<p>consultation of publication of publicity texts; electronic marketing services, namely, creative marketing design services; consultation for business consultation in the field of marketing, advertising and promoting the goods, services or reputation of other in the fields of branding, crisis response, and market research; conference and event planning for business purposes; business services, namely, communications program implementation and management services, data analysis, evaluation and statistical reporting on effectiveness of messaging and communications initiatives; advertising copywriting</p>			

APPLICANT/ FILE NO.	COUNTR Y	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120575-08US01 120575-1	U.S.	KRATOS INTEGRAL SYSTEMS INTERNATIONAL	42 = Database development, graphic design services; website design and development services; planning and development of electronic communications networks; technical writing  37 = Integrated technology solutions for satellite communications-interfaced systems, namely, installation of satellite ground systems for computer hardware and telecommunications hardware for satellite command and control, data processing, simulation, integration and testing, tracking applications, ground equipment monitoring and control, flight software validation and analysis; Installation and maintenance of computer hardware for satellite ground systems	85/430,662 9/23/11	4,269,259 1/1/13	8&15 Affidavits due between 1/1/18 and 1/1/19; Renewal due between 1/1/22 and 1/1/23

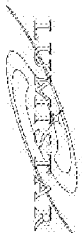
APPLICANT/ FILE NO.	COUNTR Y	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
			<p>42 = Design for others  of computer hardware and software for  satellite ground systems; installation and  maintenance of computer software for  satellite ground systems; engineering  services; providing mission critical  engineering, communications and  information technology services,  including developing and implementing  safeguards and controls for computer and  communications network security by  restricting access to and by computer  networks to and of undesired web sites,  media and individuals and facilities,  planning for continuing operations and  disaster recovery for computer networks,  administration of computer system  networks in operations centers in the</p>			

APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
Kratos Defense & Security Solutions, Inc. 120575-01US01 120575-1	U.S.	CYBERC4	<p>fields of military defense, commercial communications service providers, intelligence, surveillance, reconnaissance, homeland security, avionics and space programs to governmental agencies; providing design, development and integration of computer networks; computer and telecommunications network engineering and consulting services for enterprise solutions and integration</p> <p>9 - Computer programs for computer security; computer hardware containing computer security software; cyber security computer hardware and software to protect computer networks against unauthorized intrusion, data theft, compromise,</p>	85/613,591 5/1/12	4,898,840 2/9/16	Section 8&15 Affidavits due between 2/9/21 and 2/9/22; Renewal due between 2/9/25 and 2/9/26

APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
			<p>infiltration and corruption by hackers, and other risks as it relates to computer security; cyber security appliances, namely, computer hardware and software combinations for protecting computer networks against unauthorized intrusion, data theft, compromise, infiltration and corruption by hackers, and other risks relating to computer security, for providing real-time Security Information Event Management (SIEM) for satellite networks for use in providing situational awareness across network and security devices, for providing real-time monitoring and recording and built-in alerting for use in protecting against insider threats, for providing cyber security hardware and software that</p>			



APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
			<p>passes secure information across classified and unclassified network domains, and for providing computer hardware and software combinations that reverse engineer internet protocol out of an RF link; cyber security software and software incorporating algorithms for use in harden system configuration against tampering</p> <p>42 - Computer security service, namely providing real-time Security Information Event Management (SIEM) for satellite networks for use in providing situational awareness across network and security devices</p>			

<p>Kratos Defense &amp; Security Solutions, Inc. 120575-1</p>	<p>U.S.</p>		<p>40 - Custom  manufacture of board-level telemetry products, namely, receivers and down converter boards, demodulators, bit sync and decom boards, diversity combiner boards, display boards, dynamic data simulator boards, portable receivers, bit synchronizers, airborne receivers, test transmitters with simulators, and test antennas</p> <p>42 - Custom design and development of board-level telemetry products, namely, receivers and down converter boards, demodulators, bit sync and decom boards, diversity combiner boards, display boards, dynamic data simulator boards, portable receivers, bit synchronizers, airborne receivers, test transmitters with simulators, test</p>	<p>85/720,402 9/4/12</p>	<p>4,337,948 5/21/13</p>	<p>Section 8&amp;15 Affidavits due between 5/21/18 and 5/21/19; Renewal due between 5/21/22 and 5/21/23</p>
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APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
			antennas, and data processing software to display real time flight test operations			

**Service Descriptions**

Description "A" - Engineering services; consulting in the fields of engineering for weapons systems development, information technology services, computer and telecommunications network engineering, and design and inspection of fire alarm system and sprinkler suppression systems; on-line system management services that allow users to remotely view, monitor, program, operate and control electrical systems, environmental, access and security systems in homes, offices and buildings

Description "B" - Engineering services; providing mission critical engineering and information technology services, namely, software application design, development, implementation and maintenance to meet customer needs, developing and implementing safeguards and controls for computer network security by restricting access to and by computer networks to and of undesired web sites, media and individuals and facilities, planning for continuing operations and disaster recovery for computer networks, administration of computer system networks in operations centers for the government, customizing computer software for email systems for the customer and application service provider, namely, hosting databases, all in the fields of military defense, intelligence, surveillance, reconnaissance, homeland security, weapon systems support and maintenance, avionics and space programs to governmental agencies; providing design, development and integration of computer networks; consulting in the fields of engineering for weapons systems development, information technology services primarily directed to military defense, intelligence, surveillance, reconnaissance, homeland security, weapon systems support and maintenance, avionics and space programs, computer and telecommunications network engineering and consulting services for enterprise solutions and integration, namely, design and inspection of fire alarm system and sprinkler suppression systems; on-line system management services that allow users to remotely view, monitor, program, operate and control electrical systems, environmental, access and security systems in homes, offices and buildings

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

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Technology & Training Solutions, Inc.	CTM	SPECTRALNET	9 - Computer hardware and software combinations, namely, computer processors, network gateway devices and signal processing software and firmware libraries which capture, ingest, and process analog spectrum (radio frequency (RF), intermediate frequency (IF), and baseband signals) into data samples, optionally record or play back the sampled data locally, and transport the data samples over a local or wide-area network using industry-standard internet protocol (IP) or fiber interfaces to process the sampled data digitally or reconstruct it back into its native analog formats at the remote destination.	012024634 7/30/13	012024634 12/26/13	Renewal due 7/30/23

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Technology & Training Solutions, Inc.	CTM	EPOCH	9 - Computer software for operating satellites, for operating satellite ground systems, and for operating a variety of satellite applications, namely, satellite command and control, ground equipment monitoring and control, tracking, telemetry display and analysis, simulation, scheduling and planning, payload monitoring, control, data processing, satellite database management, satellite and payload integration and test, orbit analysis, data archive, trending and statistical analysis	12797957 4/16/14	12797957 9/9/14	Renewal due 4/16/24
Kratos Technology & Training Solutions, Inc.	CTM	EPOCH IPS	9 - Computer software for operating satellites, for operating satellite ground systems, and for operating a variety of satellite applications, namely, satellite command and control, ground equipment monitoring and control, tracking, telemetry display and analysis, simulation, scheduling and planning, payload monitoring, control, data processing, satellite database management, satellite and payload integration and test, orbit analysis, data archive, trending and statistical analysis	12798047 4/16/14	12798047 9/9/14	Renewal due 4/16/24

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Technology & Training Solutions, Inc.	CTM	EPOCH T&C	9 - Computer software for operating satellites, for operating satellite ground systems, and for operating a variety of satellite applications, namely, satellite command and control, ground equipment monitoring and control, tracking, telemetry display and analysis, simulation, scheduling and planning, payload monitoring, control, data processing, satellite database management, satellite and payload integration and test, orbit analysis, data archive, trending and statistical analysis	12797999 4/16/14	12797999 9/9/14	Renewal due 4/16/24
Kratos Technology & Training Solutions, Inc.	U.S.	EPOCH	9 - Computer software for operating satellites, for operating satellite ground systems, and for operating a variety of satellite applications, namely, satellite command and control, ground equipment monitoring and control, tracking, telemetry display and analysis, simulation, scheduling and planning, payload monitoring, control, data processing, satellite database management, satellite and payload integration and test, orbit analysis, data archive, trending and statistical analysis	85/958,352 6/12/13 USE	4474718 1/28/14	Section 8&15 due between 1/28/19 and 1/28/20; Renewal due between 1/28/23 and 1/28/24

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Technology & Training Solutions, Inc.	U.S.	EPOCH IPS	9 - Computer software for operating satellites, for operating satellite ground systems, and for operating a variety of satellite applications, namely, satellite command and control, ground equipment monitoring and control, tracking, telemetry display and analysis, simulation, scheduling and planning, payload monitoring, control, data processing, satellite database management, satellite and payload integration and test, orbit analysis, data archive, trending and statistical analysis	85/958,358 6/12/13	4,477,628 2/4/14	Section 8&15 due between 2/4/19 and 2/4/20; Renewal due between 2/4/23 and 2/4/24
Kratos Technology & Training Solutions, Inc.	U.S.	EPOCH T&C	9 - Computer software for operating satellites, for operating satellite ground systems, and for operating a variety of satellite applications, namely, satellite command and control, ground equipment monitoring and control, tracking, telemetry display and analysis, simulation, scheduling and planning, payload monitoring, control, data processing, satellite database management, satellite and payload integration and test, orbit analysis, data archive, trending and statistical analysis	85/958,364 6/12/13	4,477,629 2/4/14	Section 8&15 due between 2/4/19 and 2/4/20; Renewal due between 2/4/23 and 2/4/24

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Technology & Training Solutions, Inc.	U.S.	QUANTUMCMD	9 - Computer hardware, namely, servers, and computer software and integrated computer hardware and software combinations, all for satellite command and control and related ground system functionality for operating satellites and automation for unattended management and control of satellites, managing ground segment and space segment data exchange while performing satellite operations; orbital analysis of satellites, simulation and training for satellite command and control operators, control of satellite cryptographic devices and satellite mission data processing	85/959,550 6/13/13	4,765,022 6/30/15	Section 8&15 due between 6/30/20 and 6/30/21; Renewal due between 6/30/24 and 6/30/25



APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Technology & Training Solutions, Inc.	U.S.	QUANTUM COMMAND	9 - Computer hardware, namely, servers, and computer software and integrated computer hardware and software combinations, all for satellite command and control and related ground system functionality for operating satellites and automation for unattended management and control of satellites, managing ground segment and space segment data exchange while performing satellite operations; orbital analysis of satellites, simulation and training for satellite command and control operators, control of satellite cryptographic devices and satellite mission data processing	85/959,574 6/13/13	4,863,590 12/1/15	Section 8&15 due between 12/1/20 and 12/1/21; Renewal due between 12/1/24 and 12/1/25  First use: 1/31/14

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Technology & Training Solutions, Inc.	U.S.	SPECTRALNET	9 - Computer hardware and software combinations, namely, computer processors, network gateway devices and signal processing software and firmware libraries which capture, ingest, and process analog spectrum (radio frequency (RF), intermediate frequency (IF), and baseband signals) into data samples, optionally record or play back the sampled data locally, and transport the data samples over a local or wide-area network using industry-standard internet protocol (IP) or fiber interfaces to process the sampled data digitally or reconstruct it back into its native analog formats at the remote destination.	86/022,838 7/29/13 ITU	4,765,070 6/30/15	Section 8&15 due between 6/30/20 and 6/30/21; Renewal due between 6/30/24 and 6/30/25  First use: 1/31/14

CHARLESTON MARINE CONTAINERS, INC.

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Charleston Marine Containers, Inc. 119693-1	U.S.	TRICOLD	11 - Refrigerated freight containers	78/693,295 8/16/05	3,123,564 8/1/06	2 <sup>nd</sup> Renewal due between 8/1/25 and 8/1/26
Charleston Marine Containers, Inc.	U.S.	LSA	6 - Metal cargo containers and metal locks therefor	86/415,497 5/15/02	2,854,549 6/15/04	2 <sup>nd</sup> Renewal due between 6/15/23 and 6/15/24

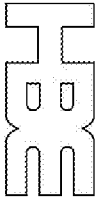
**TRADEMARK**

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**HENRY BROS. ELECTRONICS, INC.**

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Henry Bros. Electronics, Inc.	U.S.	HBE	37 - Installation and maintenance of electronic security systems 42 - Design of electronic security systems for others 45 - Consultation in the field of electronic security systems	78/643,380 6/3/05	3103708 6/13/06	2 <sup>nd</sup> Renewal due between 6/13/25 and 6/13/26

**TRADEMARK**

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Henry Bros. Electronics, Inc.	U.S.		<p>9 - Home, office and building automation and security systems comprising wireless and wired controllers, controlled electric devices in the nature of software and computer hardware for controlling and monitoring lighting, HVAC, security, safety and other home, office and building monitoring and control applications; building security systems comprising hardware and software for providing picture, video, alarm status, building plans, environmental, access and security information to a remote station</p> <p>37 - Installation and maintenance of security systems</p> <p>38 - Telecommunication services, namely, providing access to pictures, video, alarm status, building plans and other building and security information at a remote station</p> <p>45 - Control of building environmental, access and security systems; monitoring building environmental, access and security systems; Consultation in the field of electronic security systems</p>	85/586,633 4/2/12 (USE)	4,285,247 2/5/13	Section 8&15 Affidavits due between 2/5/18 and 2/5/19; Renewal due between 2/5/22 and 2/5/23



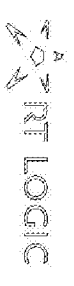
**TRADEMARK**

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**KRATOS INTEGRAL HOLDINGS, LLC.**


APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Integral Holdings, LLC	U.S.	<b>COMPASS</b>	9- Computer programs, namely computer operating software for use in collecting data, device monitoring and control for use in computer network management and wireless communications networks management	85197879 12/14/10	4,442,102 12/3/13	Section 8&15 due between 12/3/18 and 12/3/19; Renewal due between 12/3/22 and 12/3/23
Kratos Integral Holdings, LLC	U.S.	SATID	9 - electronic equipment, namely computer hardware and computer software, for detection and location of transmitters via satellites  42 - consulting services, namely technical analysis and evaluation of satellites, satellite systems and communication systems; scientific research and product development relating to satellites, satellite systems and communication systems; locating interfering transmitters by analyzing satellite relayed signals for the purpose of locating an interfering transmitter	76198559 1/24/01	2,718,505 5/27/03	2 <sup>nd</sup> Renewal due between 5/27/22 and 5/27/23

**TRADEMARK**

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Integral Holdings, LLC 01US01	U.S.	 RT LOGIC and Design	9 - Satellite ground system software for display and analysis data from satellites, satellite subsystems and payloads, ground equipment, and test equipment and instrumentation	75886786 1/5/00	2,408,731 11/28/00	2 <sup>nd</sup> Renewal due between 11/28/19 and 11/28/20
Kratos Integral Holdings, LLC	U.S.	 RT LOGIC	40 - Custom manufacture of advanced signal processing units in the satellite ground operations and satellite factory test marketplaces	85197882 12/14/10	4,034,045 10/4/11	Section 8&15 Affidavits due between 10/4/16 and 10/4/17; Renewal due between 10/4/20 and 10/4/21
Kratos Integral Holdings, LLC 01US01	U.S.	 RT LOGIC and Design	9 -Frequency converters, modems, data processors, satellite transmitters and receivers, multiplexers 40 -Custom manufacture of advanced signal processing units in the satellite ground operations and satellite factory test marketplaces 42 - Scientific and technological services, namely, scientific research, analysis, testing and research and design relating thereto for others in the field of	87246009 11/22/16	5,240,617 7/11/17	Will allow cancellation and refiling  Section 8&15 due between 7/11/22 and 7/11/23; Renewal due between 7/11/26 and 7/11/27  2(f) in part claimed First use 3/26/97  Claim Reg. 4185208, 4034045

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Integral Holdings, LLC	U.S.	RT LOGIC	<p>signal processing systems for the space and aerospace communications industry; scientific and technological services, namely, research and design in the field of signal processing systems for the space and aerospace communications industry; scientific and technological industrial analysis and research services for others in the field of signal processing systems for the space and aerospace communications industry</p> <p>9- frequency converters, modems, data processors, satellite transmitters and receivers, multiplexers</p> <p>40- custom manufacture of advanced signal processing units in the satellite ground operations and satellite factory test marketplaces</p> <p>42- scientific and technological services and research and design relating thereto for others in the field of signal processing systems for the space and aerospace communications industry; industrial analysis and research services for others in the field of signal processing systems for the space and</p>	85/349,043 6/17/2011	4,185,208 8/7/12	Renewal due between 8/7/21 and 8/7/22  Integral Systems, Inc. 6721 Columbia Gateway Drive Columbia, Maryland 21046  Maryland Corp.





APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Integral Holdings, LLC	U.S.	TELEMETRIX	9 - electrical device used to deliver enabling solutions that are open, robust and flexible namely, advanced signal processing including demodulation, bit synchronization and removal of convolutional encoding that provide ground antenna site telemetry command IF and baseband signal processing functions for space-ground link system SGLS or non-SGLS requirements; direct support for the Air Force Satellite Control Network (AFSCN) and center telemetry and command processing products	76/161,079 11/8/00	2,603,866 8/6/02	2 <sup>nd</sup> Renewal due between 8/6/21 and 8/6/22
Kratos Integral Holdings, LLC	U.S.	WEBIC	9 - Web based computer application program that combines data from multiple networked systems into a single user interface through a browser-based thin client	85200149 12/16/10	3993807 7/12/11	Renewal due between 7/12/20 and 7/12/21
Kratos Integral Holdings, LLC	U.S.		37 - Integrated technology solutions for satellite communications-interfaced systems, namely, installation of satellite ground systems for computer hardware and telecommunications hardware	85/240,475 2/11/11	4,034,314 10/4/11	<b>Section 8&amp;15 Affidavits due between 10/4/16 and 10/4/17; Renewal due between 10/4/20 and 10/4/21</b>

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
			<p>for satellite command and control, data processing, simulation, integration and testing, tracking applications, ground equipment monitoring and control, flight software validation and analysis;            Installation and maintenance of computer hardware for satellite ground systems</p> <p>42 - Design for others of computer hardware and software for satellite ground systems;            installation and maintenance of computer software for satellite ground systems</p>			<p>Being discussed with client</p>




**TRADEMARK**

**REEL: 007715 FRAME: 0500**

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Integral Holdings, LLC	U.S.	 (Color)	9 - Computer programs, namely, computer operating software to monitor and control solutions for configuration management, system notification and operator access for use in computer network management and wireless communications networks management	85/241,119 2/13/11	4,059,075 11/22/11	Section 8&15 Affidavits due between 11/22/16 and 11/22/17; Renewal due between 11/22/20 and 11/22/21
Kratos Integral Holdings, LLC	CTM		37 - Integrated technology solutions for satellite communications-interfaced systems, namely, installation of satellite ground systems for computer hardware and telecommunications hardware for satellite command and control, data processing, simulation, integration and testing, tracking applications, ground equipment monitoring and control, flight software validation and analysis; Installation and maintenance of computer hardware for satellite ground systems	10045052 6/14/11	10045052 11/15/11	Renewal due 6/14/21
			42 - Design for others of computer hardware and software for satellite ground systems;			

TRADEMARK

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APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Integral Holdings, LLC	CTM		40 - Custom manufacture of advanced signal processing units in the satellite ground operations and satellite factory test marketplaces	10044981 6/14/11	10044981 11/15/11	Renewal due 6/14/21
Kratos Integral Holdings, LLC	CTM		9 - Computer programs, namely computer operating software for use in collecting data, device monitoring and control for use in computer network management and wireless communications networks management	10044964 6/14/11	10044964 11/15/11	Renewal due 6/14/21
Kratos Integral Holdings, LLC	CTM	 Color	9 - Computer programs, namely, computer operating software to monitor and control solutions for configuration management, system notification and operator access for use in computer network management and wireless communications networks management	10072023 6/23/2011	10072023 12/13/11	Renewal due 6/23/21
Kratos Integral Holdings, LLC	CTM	WEBIC	9 - Web based computer application program that combines data from multiple networked systems into a single user interface through a browser-based thin client	10045061 6/14/2011	10045061 11/15/11	Renewal due 6/14/21

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Kratos Integral Holdings, LLC	Singapore	SATID	9 - Satellite systems; electronic equipment and software for satellites, satellite systems and communication systems; electronic equipment and software for detection and location of transmitters via satellites	T0100710J 9/27/00	T0100710J 9/27/00	Renewal due 9/27/20
Kratos Integral Holdings, LLC	Singapore	SATID	42 - Technical analysis and evaluation of satellites, satellite systems and communication systems; scientific research and development relating to satellites, satellite systems and communication systems; detection and location of transmitters via satellites	T0100711I 9/27/00	T0100711I 9/27/00	Renewal due 9/27/20
Kratos Integral Holdings, LLC	UK	SATID	9 - Satellite systems; electronic equipment and software for satellites, satellite systems and communication systems; electronic equipment and software for detection and location of transmitters via satellites  42 - Technical analysis and evaluation of satellites, satellite systems and communication systems; scientific research and development relating to satellites, satellite systems and communication systems;	2246672 9/27/00	2246672 3/30/01	Renewal due 9/27/20

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
			detection and location of transmitters via satellites			

**SAT CORPORATION**


APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
SAT Corporation	U.S.	MONICS	9 - Computer programs for measuring signal parameters, searching for unexpected signals, providing alarms for signal changes, remote instrumentation control, creation of online databases for signal parameters, signal frequency management, signal interference capture and location, surveillance of signal spectrums and locations, comparisons of signals to industry standards, storage of signals, communication signal monitoring, satellite payload monitoring, RF and IF frequency uplink and downlink measurements, signal carrier and transponder monitoring, generation of reports on all of the foregoing, all for use in the field of satellite communications	76/245,440 4/23/01	2,673,042 1/7/03	2 <sup>nd</sup> Renewal due between 1/7/22 and 1/7/23

**TRADEMARK**

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
SAT Corporation	U.S.	SAT-DSA	9 - Computer programs for measuring signal parameters, searching for unexpected signals, providing alarms for signal changes, remote instrumentation control, creation of online databases for signal parameters, signal frequency management, signal interference capture and location, surveillance of signal spectrums and locations, comparisons of signals to industry standards, storage of signals, communication signal monitoring, satellite payload monitoring, RF and IF frequency uplink and downlink measurements, signal carrier and transponder monitoring, generation of reports on all of the foregoing, all for use in the field of satellite communications	77/549,477 8/18/08	3,597,999 3/31/09	Renewal due between 3/31/18 and 3/31/19
SAT Corporation	U.S.	SIGMON	9 - computer programs for automatic signal monitoring of satellite communication systems	76/091,683 7/17/00	2,727,623 6/17/03	2 <sup>nd</sup> Renewal due between 6/17/22 and 6/17/23



**KRATOS COMMUNICATIONS, INC. (f/k/a NEWPOINT TECHNOLOGIES, INC.)**

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
Newpoint Technologies, Inc.	U.S.	NEWPOINT	9 - computer programs, namely, computer operating software for collecting data, for device monitoring and control, and for use in computer network management and wireless communications networks management	75521745 7/20/98	2328161 3/14/00	2 <sup>nd</sup> Renewal due between 3/14/19 and 3/14/20
Newpoint Technologies, Inc.	U.S.	NEWPOINT COMPASS	9 - computer programs, namely, computer operating software for use in collecting data, device monitoring and control for use in computer network management and wireless communications networks management	75521626 7/20/98	2325495 3/7/00	2 <sup>nd</sup> Renewal due between 3/7/19 and 3/7/20
Newpoint Technologies, Inc.	U.S.		9 - computer programs, namely, computer operating software for collecting data, for device monitoring and control, and for use in computer network management and wireless communications networks management	75521741 7/20/98	2328160 3/14/00	2 <sup>nd</sup> Renewal due between 3/14/19 and 3/14/20

**TRADEMARK**

**REEL: 007715 FRAME: 0507**

**SECUREINFO CORPORATION**

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
SecureInfo Corporation	CTM	COMPLIANCEAUT HORITY	<p>9 - Computers, computer hardware and computer software, parts and fittings for all the aforesaid goods; computer peripherals; integrated circuits; electronic publications (downloadable); computer hardware and computer software for database management, computer programs; computer software and publications in electronic form (downloadable) supplied on-line from databases, from facilities provided on a global computer network or the Internet; interactive computer software; apparatus for searching electronic information from a global computer</p>		4699575 10/20/05	Grant date: 10/9/06 Renew registration by 10/20/15  10/15/15 Client instructions not renewing

**TRADEMARK**

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
			<p>network or the Internet; computer software for enterprise vulnerability management/remediation and security accreditation/certification, namely software for assessing and correcting computer network vulnerabilities and for automating, managing and monitoring regulatory compliance, risk management, corporate governance and security accreditation/certification</p> <p>16 - Paper, cardboard and goods made from these materials, not included in other classes; printed matter; bookbinding material; photographs; stationery; adhesives for stationery and household purposes; instructional and teaching material (except apparatus); plastic materials for</p>			

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
			packaging (not included in other classes); printed publications; periodicals; journals; books; booklets; manuals; instructional manuals; leaflets; advertising and promotional material; pamphlets; catalogues; brochures; magazines; newsletters; newsletters featuring information on computer software; printed matter, namely newsletters, briefings and instructional materials featuring computers, computer networks, telecommunications, storage networks, networking, wireless applications, industrial and automotive controls, medical devices and technology; user guides for computer integrated circuits, programmable logic devices,			

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
			reconfigurable logic devices, and computer software  42 - Computer  hardware and software consulting services; computer programming; support and consultation services for managing computer systems, databases and applications; graphic design for the compilation of web pages on the Internet; information relating to computer hardware or software provided on line from a global computer network or the Internet; creating and maintaining web-sites; hosting the web-sites of others; information technology services, namely, consultation in the filed of assessing, correcting and managing			

APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
SecureInfo Corporation	CTM	SECUREINFO and Design	Class 9, 38, 42 computer network vulnerabilities and security operations, regulatory compliance, risk management, corporate governance, network certification/accreditation and cyber		4385357 6/16/06	Renew registration by 4/12/25

SecureInfo Corporation	U.S.	SECUREINFO	<p>9 - computer software for enterprise vulnerability management/remediation and security accreditation/certification, namely, software for assessing and correcting computer network vulnerabilities and for automating, managing and monitoring regulatory compliance, risk management, corporate governance and security accreditation/certification</p> <p>42 - information technology services, namely, consultation in the field of assessing, correcting and managing computer network vulnerabilities and security operations, regulatory compliance, risk management, corporate governance, network certification/accreditation and cyber security</p>	78350315 1/11/04	2970216 7/19/05	<p>Second Renewal due between 7/19/24 and 7/19/25</p> <p>First Use 9/9/97</p>
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APPLICANT/ REGISTRANT	COUNTRY	MARK	CLASS	SERIAL NO./ FILE DATE:	REG. NO./ ISSUE DATE	STATUS
SecureInfo Corporation	U.S.	SECUREINFO RMS	9 - computer software for enterprise vulnerability management/remediation and security accreditation/certification, namely, software for assessing and correcting computer network vulnerabilities and for automating, managing and monitoring regulatory compliance, risk management, corporate governance and security accreditation/certification	77/216,009 2/26/07	3,494,758 9/2/08	<b>Renewal due between 9/2/17 and 9/2/18</b>  First use: 5/2007  9/14/17 reminder to CL

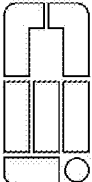


SecureInfo Corporation	U.S.		<p>9 - computer software for enterprise vulnerability management/remediation and security accreditation/certification, namely, software for assessing and correcting computer network vulnerabilities and for automating, managing and monitoring regulatory compliance, risk management, corporate governance and security accreditation/certification</p> <p>42 - information technology services, namely, consultation in the field of assessing, correcting and managing computer network vulnerabilities and security operations, regulatory compliance, risk management, corporate governance, network certification/accreditation and cyber security</p>	77/216,006 6/26/07	3,494,757 9/2/08	<p><b>Renewal due between 9/2/17 and 9/2/18</b></p> <p>First use: 5/2007 (Cl. 9) 3/2007 (Cl. 42)</p> <p>9/14/17 reminder to CL</p>
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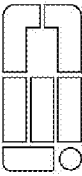
**SECUREINFO CORPORATION**

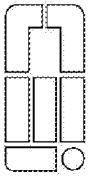
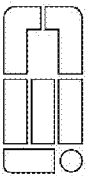
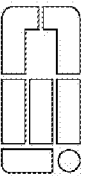
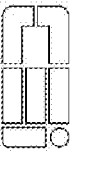
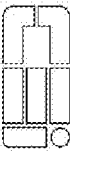
APPLICANT/ REGISTRANT	COUNTRY	NAME OF COPYRIGHT APPLICATION	REG. NO./ ISSUE DATE
SecureInfo Corporation	U.S.	RISK MANAGEMENT SYSTEM (RMS) SCREEN DISPLAY	VAu635-116 10/19/05
SecureInfo Corporation	U.S.	RISK MANAGEMENT SYSTEM (RMS) SQL DATABASE	TXu1-209-282 5/18/05
SecureInfo Corporation	U.S.	RISK MANAGEMENT SYSTEM (RMS) VER 3 2 06 02 WITH CONTENT	TXu1 209-211 5/16/05
SecureInfo Corporation	U.S.	RMS 3 2 06 QUICKSTART GUIDE	TXu1-209-292 5/27/05

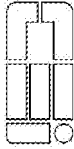
**COMPOSITE ENGINEERING INC.**

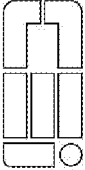
APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120158-1	U.S.	CEI	40 - Manufacture of metal, plastic and fiber-reinforced parts to order	85/747,163 10/5/12	4,342,498 5/28/13	Section 8 and 15 Affidavit due between 5/28/18 and 5/28/19; Renewal due between 5/28/22 and 5/28/23
120158-1	U.S.		<p>6 - Devices for launching aerial targets, aerial drones and UAVs, namely metal rocket launching platforms</p> <p>9 - Radio-controlled aerial targets; flight control electronics and avionics in the nature of flight control stations comprised of computers, command panels, namely hardware panel in the nature of an electric control panel with electric toggle switches and flight stick in the nature of computer hardware, RF receivers and transmitters, UHF antenna kits composed of UHF antennas, ultra high frequency (UHF) and global positioning satellite (GPS) antennas, radio frequency (RF) cables, tripods, computer network switches, uninterruptable power supply, and software for operation of ground control station and components, all for command and ground control of aerial target systems; flight control electronics and avionics, namely computers, RF cable, ethernet cable, transponders, auto pilot controls in the nature of electronic controllers for aerial vehicles, aerial</p>	85/747,193 10/5/12	4,566,219 7/15/14	Section 8 and 15 Affidavit due between 7/15/19 and 7/15/20; Renewal due between 7/15/23 and 7/15/24

APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
			<p>targets, and drones; power line conditioners, power management unit in the nature of electronic controllers for aerial vehicles, aerial targets, and drones; and integrated flight controller in the nature of electronic controllers for aerial vehicles, aerial targets and drones, and software for command and ground control of aerial target systems</p> <p>12 - Aerial drones in the nature of unmanned aerial vehicles (UAVs); unmanned aerial vehicles (UAVs); devices for launching aerial targets, aerial drones and UAVs, namely, launch trailers</p> <p>13 - Devices for launching aerial targets, aerial drones and unmanned aerial vehicles (UAVs), namely expendable rocket launchers, launching systems in the nature of rocket launchers and pneumatic rocket launchers, pneumatic target launchers for aerial targets, aerial drones and unmanned aerial vehicles (UAVs), launch rails in the nature of rocket launchers, pneumatic rocket launchers</p>			

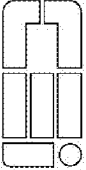
APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120158-1	U.S.		<p>37 - Installation, repair and maintenance and operation of aerial target systems, aerial targets and target drones; Mission support services, namely refurbishing of aerial targets and target drones</p> <p>39 - Mission support services, namely launching and recovery of aerial targets and target drones</p> <p>40 -Manufacture of metals, plastic and fiber-reinforced parts to order; custom fabrication and assembly of fiberglass reinforced plastic products for others, namely, high performance aerial targets and target drones</p> <p>42 - Technology consultation and research in the field of aerospace engineering and high performance aerial target systems, turnkey target presentations, unmanned aerial systems development, advanced composites solutions for aerial targets, aerial target drones, and command and ground control systems</p>	<p>85/747.313 10/5/12</p>	<p>4,446,261 12/10/13</p>	<p>Section 8 and 15 Affidavit due between 12/10/18 and 12/10/19; Renewal due between 12/10/22 and 12/10/23</p>
120158-1	U.S.	COMPOSITE ENGINEERING INC.	<p>40 - Manufacture of metals, plastic and fiber-reinforced parts to order; custom fabrication and assembly of fiberglass reinforced plastic products for others, namely high performance aerial targets and target drones</p>	<p>85/747.365 10/5/12</p>	<p>4,357,228 6/25/13</p>	<p>Section 8&amp;15 due between 6/25/18 and 6/26/19; Renewal due between 6/25/22 and 6/25/23</p>

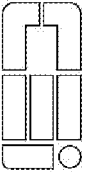
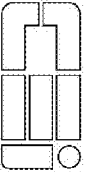
APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120158-1	Australia		42	1509035 10/10/12	1519035 10/10/12	Renewal due 10/10/22
120158-1	Indonesia		37 – Installation, repair and maintenance of systems of air targets, targets in the air and shoot target (target drones); mission support services, namely deployment, launch, recovery and renewal return targets in the air and shoot target (target drones)	J00.2012.052684 11/1/12	IDM00046650 4 3/25/15	Renewal due 11/1/22
120158-1	Indonesia		42 - Technology consultation and research in the field of aerospace engineering and high performance air target system, the target presentation ready (turnkey), the development of unmanned aerial systems, advanced composite solutions for airborne targets, target shooting in the air (aerial drone targets), and command control systems and control systems on land	J00.2012.052687 11/1/12	IDM00046651 3/25/15	Renewal due 11/1/22
120158-1	Japan		13, 37, 42	2012-081744 1010/12	5625198 10/25/13	Renewal due 10/25/23
120158-1	Malaysia		37 - Installation, repair and maintenance of aerial target systems, aerial targets and target drones	2012057968 10/11/12	2012057968 10/11/2012	Renewal due 10/11/22

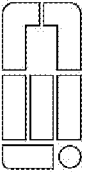
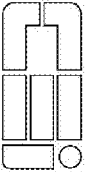
APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120158-1	Malaysia		42 - Technology consultation and research in the field of aerospace engineering and high performance aerial target systems, turnkey target presentations, unmanned aerial systems development, advanced composites solutions for aerial targets, aerial target drones, and command and ground control systems	2012057965 10/11/12	2012057965 9/10/13	Renewal due 10/11/22

APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120158-1	S. Korea		37, 42	41-2012- 0033538 10/9/12	41-0266372 8/16/13	Renewal due 8/16/23




120158-1	Taiwan		<p>6 - Devices for launching aerial targets, aerial drones and UAVs, namely metal launching platforms, metal launch rails.</p> <p>9 - Flight control electronics and avionics, namely flight control stations and electronics for command and ground control of aerial target systems.</p> <p>12 - Aerial targets, aerial drones, and unmanned aerial vehicles (UAVs)..</p> <p>13- Devices for launching aerial targets, aerial drones and UAVs, namely tow launchers for weapons, payloads for missiles, pneumatic launchers for weapons.</p> <p>19- Devices for launching aerial targets, aerial drones and UAVs, namely non-metal launching platforms, non-metal launch rails.</p> <p>37 - Installation, repair, maintenance, recovery and refurbishing of aerial target hardware systems, aerial targets and target drones.</p> <p>42 - Technology consultation and research in the field of aerospace engineering and high performance aerial target systems, turnkey target presentations, unmanned aerial systems development, advanced composites solutions for aerial targets, aerial target drones, and command and ground control systems; installation, maintenance and update of aerial targets and target drones software systems.</p>	101057704 10/11/12	1664305 9/1/14	Renewal due 8/31/24
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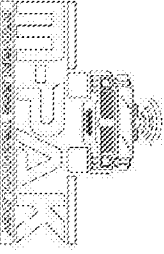
APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120158-1	Thailand		13	866195 10/11/12	Kor384861 9/8/14	Renewal due 10/10/22
120158-1	Thailand		37	866196 10/11/12	Bor62587 7/3/14	Renewal due 10/10/22

APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120158-1	Thailand		40	866197 10/11/12	Bor62588 7/3/14	Renewal due 10/10/22
120158-1	Thailand		42	866198 10/11/12	Bor62589 7/3/14	Renewal due 10/10/22


**AI METRIX, INC.**

APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
120253-03US01	U.S.	DOPPLER VUE	9 - Computer software for monitoring and graphically depicting the performance of communications networks and components thereof	76/410,893 5/23/02	2,867,365 7/27/04	Second Renewal due between 7/27/23 and 7/27/24
120253-02US01	U.S.		9 - Telecommunications software for use in the distribution and management of data across a network	76/650,168 11/4/05	3,170,480 11/14/06	2 <sup>nd</sup> Renewal due between 11/14/25 and 11/14/26
120253-01US01	U.S.	NEURALSTAR	9 - Telecommunications software for use in distribution management of data across a network	76/639,104 5/20/05	3,170,447 11/14/06	2 <sup>nd</sup> Renewal due between 11/14/25 and 11/14/26  USPTO records incorrectly list Registrant as CA corp. instead of DE corp

**MICRO SYSTEMS, INC.**

APPLICANT / FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
122882-01US01	U.S.	M-PAK	9 - Ground vehicle automation kits for the remote control operation and autonomous GPS path following control of unmanned vehicles comprising electronic steering actuators, navigation modules, electronic actuators, and location, speed, and radar sensors for use in training, mining, construction, tactical operations, weapons evaluation, and security related applications	86/790,953 10/16/15		10/10/17 Statement of Use accepted First Use CL 9: 11//30/16 First Use CL 37: 3/18/17 (deleted)
122882-02US01	U.S.	M-PAK DRIVERLESS TECHNOLOGY and Design  Drawing page amended to: 	9 - Ground vehicle automation kits for the remote control operation and autonomous GPS path following control of unmanned vehicles comprising electronic steering actuators, navigation modules, electronic actuators, and location, speed, and radar sensors for use in training, mining, construction, tactical operations, weapons evaluation, and security related applications	86/790,988 10/16/15		10/10/17 Statement of Use accepted First Use CL 9: 11//30/16 First Use CL 37: 3/18/17 (deleted)

APPLICANT / FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
122882-03US01	U.S.	WOLF-PAK	9 - Radiofrequency (RF) communication and ranging systems comprised of software and microprocessors, radio transceivers, radio transponders, and radar, to transmit and receive communications and ranging information for collision avoidance among a plurality of swarming vehicles, namely unmanned land vehicles, unmanned aircraft, and unmanned seaborne vessels, the swarming vehicles including a leader vehicle and multiple follower vehicles	86/969,817 4/8/16 TTU		11/1/16 Notice of Allowance; 10/2/17 Extension 2 filed and deleted class 37; <b>Statement of Use or 3<sup>rd</sup> extension due 5/1/18</b>

APPLICANT / FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
122882-04US01	U.S.	AIR, LAND, AND SEA WOLF-PAK SWARMING TECHNOLOGY and Design 	<p>9 - Radiofrequency (RF) communication and ranging systems comprised of software and microprocessors, radio transceivers, radio transponders, and radar; to transmit and receive communications and ranging information for collision avoidance among a plurality of swarming vehicles, namely unmanned land vehicles, unmanned aircraft, and unmanned seaborne vessels, the swarming vehicles including a leader vehicle and multiple follower vehicles</p> <p>37 - Installation, maintenance, and repair of apparatus for unmanned vehicle swarming operations; unmanned vehicle customization services, namely installation of unmanned vehicle swarming technology kits to provide communications and ranging information for collision avoidance among a plurality of vehicles in swarming operations</p>	86/969,692 4/8/16 TTU		9/5/17 Published for opposition

**GENERAL MICROWAVE CORPORATION**

APPLICANT/ FILE NO.	COUNTRY	MARK	CLASS/SERVICES	Serial No. Filing Date	Reg. No. Issue Date	STATUS
	U.S.	RF RADIATION BADGE & design	US Class 026. Radiation dosimeters, namely electronic radiation monitors for personal use	74373896 3/31/93	1,883,355 3/14/93	Issued and active
	U.S.	RAHAM	US Classes 021, 026. Radiation Hazard Meters, Meter Cases, and Wire Interconnecting Cables Therefor	73459793 1/6/84	1,313,267 1/8/85	Issued and active
	U.S.	GENERAL MICROWAVE	US Class 026. Microwave measuring equipment, instruments, and components- namely, power meters, power levelers, bolometers, bolometer and thermistor mounts, noise generators, noise figure meters, signal generators, voltmeters, microwave tuners and detector mounts, standing wave indicators, slotted lines, frequency meters, calorimeters, sliding terminations, and signal samplers	72182792 12/11/63	787,130 3/23/65	Issued and active



U.S. and Foreign Copyrights and Applications  
As of October 30, 2017

**SECUREINFO CORPORATION**

COUNTRY	TITLE OF COPYRIGHT	REG. NO.	ISSUE DATE
U.S.	RISK MANAGEMENT SYSTEM (RMS) SCREEN DISPLAY	V <u>Au</u> 000635116	10/18/05
U.S.	RISK MANAGEMENT SYSTEM (RMS) SQL DATABASE	TX <u>u</u> 001209282	5/18/05
U.S.	RISK MANAGEMENT SYSTEM (RMS) VER 3 2 06 02 WITH CONTENT	TX <u>u</u> 001209211	5/16/05
U.S.	RMS 3 2 06 QUICKSTART GUIDE	TX <u>u</u> 001209292	5/27/05
U.S.	RISK MANAGEMENT SYSTEM (RMS) PHASE I OUTPUT	TX <u>u</u> 001159806	10/18/05

**DEFENSE SYSTEMS, INC.**

COUNTRY	TITLE OF COPYRIGHT	REG. NO.	ISSUE DATE
U.S.	OPSEC training plan	TX <u>u</u> 000602108	10/28/93

**MADISON RESEARCH CORPORATION**

COUNTRY	TITLE OF COPYRIGHT	REG. NO.	ISSUE DATE
U.S.	INSIGHT	TX00004607020	8/5/97

**SUMMIT RESEARCH CORPORATION**

COUNTRY	TITLE OF COPYRIGHT	REG. NO.	ISSUE DATE
U.S.	Charts : v2.1.	TXu001071666	10/15/02

**SAT CORPORATION**

COUNTRY	TITLE OF COPYRIGHT	REG. NO.	ISSUE DATE
U.S.	E4900 software	TX00005620254	2/3/02

**GENERAL MICROWAVE CORPORATION**

COUNTRY	TITLE OF COPYRIGHT	REG. NO.	ISSUE DATE
U.S.	General Microwave : full line catalog components and instruments : G32	TX00003219165	6/19/92

**MICRO SYSTEMS, INC.**

COUNTRY	TITLE OF COPYRIGHT	REG. NO.	ISSUE DATE
U.S.	[905-873 data concentrator program]	TXu0002416003	10/31/88
U.S.	MARC : marketing and reorder control system	TXu000307295	12/18/87
U.S.	"Mort" mortgage qualification system	TXu000191860	3/27/85

**KRATOS DEFENSE & SECURITY SOLUTIONS, INC. (f/k/a WIRELESS FACILITIES, INC.)**

COUNTRY	TITLE OF COPYRIGHT	REG. NO.	ISSUE DATE
U.S.	NetOptimizer	TXu000937012	2/10/00
U.S.	NetStats : v2.30a / programmed by Artem Koltsov	TXu000937013	2/10/00
U.S.	NetView v3.0	TXu000811915	12/3/97

**Kratos Entity Patent Status Chart**  
**Status of U.S. & Foreign Patents and Applications<sup>1</sup>**  
**As of October 30, 2017**

**KRATOS INTEGRAL HOLDINGS, LLC**

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
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.

<sup>1</sup> Add patents owned by Avtec System, Inc., General Microwave Corp., General Microwave Israel Corp. and Real Time Logic, Inc.

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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
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 Annunities 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

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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
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

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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
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
119085-007UST1	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

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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
119085-007IT1	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



Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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
119085-007IT2	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.

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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
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

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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
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 1 <sup>st</sup> 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	1120150785 0	05/20/2014		3/08/2017	Granted	Annuity due 05/20/2018

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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
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

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-0151T1	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
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	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	BR1120160194454	2/3/2015			Pending	Request for Examination 2/3/2018 Annuity due 2/3/2019

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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
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

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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
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

**SAT CORPORATION**

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119085-001 SAT	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



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

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
120571-SI C001	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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<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

## HENRY BROS. ELECTRONICS, INC.

Off. 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	2 <sup>nd</sup> 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

**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

**Kratos Unmanned Aerial Systems, Inc. (f/ k/ a Composite Engineering, Inc.)**

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
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

**GICHNER SYSTEMS GROUP, INC.**

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119706-003UT1	United States	SMART SHELTER: H-NETWORK	15/074,891	3/18/2016			Pending	Awaiting first action.

**MICRO SYSTEMS, INC.**

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
122882-001 UT1	United States	AUTONOMOUS VEHICLE APPLIQUE	15/066,943	3/10/2016			Pending	Office Action Response due 12/27/2017
122882-002 UT1	United States	SYSTEM AND METHOD FOR OPERATING UNMANNED VEHICLE SWARMS	15/482,349	4/7/2017			Pending	Awaiting first action; Response to Missing Parts due, 3rd Extension, Filing Fees due 11/20/2017



**SECUREINFO CORPORATION**

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	3rd Maintenance Fee Due 9/4/2019

**TRADEMARK**

**REEL: 007715 FRAME: 0555**

**AIRORLITE COMMUNICATIONS, INC.**

Our Reference	Country	Title	Serial No.	Filing Date	Patent No.	Issued Date	Status	Pending Action
119086-001UTL	United States	METHOD AND APPARATUS FOR OPTIMIZING SIGNAL PROCESSING	11/652,805	1/12/2007	7,643,791	1/5/2010	Issued	Final Deadline for the 2nd Mfee is January 5, 2018
119086-001CON	United States	METHOD AND APPARATUS FOR OPTIMIZING SIGNAL PROCESSING	12/621,788	11/19/2009	8,068,803	11/29/2011	Issued	2nd Maintenance Fee Due 5/29/2019
119086-002DES	United States	EMERGENCY COMMUNICATION CONTROLLER AND CONSOLE	D/238,457	8/15/2007	D610,124	2/16/2010	Issued	DESIGN PAT EXPIRES 2/16/2024

**(i) Patent Information of the Acquired Companies:**

Patent#	Appl. No.	Filing Date	Patent #	Issue Date	Owner	Title
22115-1820N	110243.782	10/8/2008	7497996	3/3/2009	FTT Inc.	Multi-Metered Film Coated Blade Tip
22115-18P0E	10771882	5/4/2012	EP2468830	10/8/2014	FTT Inc.	Bearingless Floating Wind Turbine
22115-18P0K	10771882	5/4/2012	EP2468830	10/8/2014	FTT Inc.	Bearingless Floating Wind Turbine
22115-18P0P	10771882	5/4/2012	EP2468830	10/8/2014	FTT Inc.	Bearingless Floating Wind Turbine
22115-18P0S	10771882	5/4/2012	EP2468830	10/8/2014	FTT Inc.	Bearingless Floating Wind Turbine
22115-18P0R	10771882	5/4/2012	EP2468830	10/8/2014	FTT Inc.	Bearingless Floating Wind Turbine
22115-18P0B	10771882	5/4/2012	EP2468830	10/8/2014	FTT Inc.	Bearingless Floating Wind Turbine
22115-18P0G	10771882	5/4/2012	EP2468830	10/8/2014	FTT Inc.	Bearingless Floating Wind Turbine
22115-20CAP0A	2014247	12/8/2015			FTT Inc.	Process For Testing A Compressor Of A Combustor Of A Gas Turbine Engine Using A Large Compressed Air Storage Reservoir. E.U.
22115-20CAP0B	17306700.7	11/8/2017			FTT Inc.	Process For Testing A Compressor Of A Combustor Of A Gas Turbine Engine Using A Large Compressed Air Storage Reservoir. E.U.
22115-20P0U		9/28/2013	AU2012237974	11/28/2015	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0R	1120136252044	9/28/2013			FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0K		9/27/2013	CA2552908	8/21/2018	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0N		11/28/2013	ZL2012066252044.6	3/25/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0Z	20120712183	3/15/2012	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0E	WQ2012134824 602012031993.7	3/28/2012			FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0K	20120712183	3/15/2012	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0F		7/11/2014	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0F	20120712183	3/15/2012	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0S		9/12/2017	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0E	20120712183	3/15/2012	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0N	20120712183	3/15/2012	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0U	20120712183	3/15/2012	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0K	20120712183	3/15/2012	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0L	20120712183	3/15/2012	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0P	20120712183	3/15/2012	EP2691757	5/3/2017	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-20P0E	14608.308	11/13/2013	8652803	12/1/2015	FTT Inc.	Apparatus And Process For Testing An Industrial Gas Turbine Engine And Components Thereof
22115-24P0H	20140752888	7/28/2014	EP3058178		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. E.U.
22115-24P0N			ZL201480099748.4		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. China
22115-24P0E	20140752888	7/28/2014	EP3058178		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. E.U.
22115-24P0F	20140752888	7/28/2014	EP3058178		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. E.U.
22115-24P0S	20140752888	7/28/2014	EP3058178		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. E.U.
22115-24P0R	20140752888	7/28/2014	EP3058178		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. E.U.
22115-24P0B	20140752888	7/28/2014	EP3058178		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. E.U.
22115-24P0G	20140752888	7/28/2014	EP3058178		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. E.U.
22115-24P0T	20140752888	7/28/2014	EP3058178		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. E.U.
22115-24P0P	20140752888	7/28/2014	EP3058178		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. E.U.
22115-24P0R	20140752888	7/28/2014	EP3058178		FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling. E.U.
22115-25P0N	20148001688.30	9/11/2014	ZL201480051988.3	10/29/2017	FTT Inc.	High Pressure Ratio Twin Spool Industrial Gas Turbine Engine
22115-25P0P	14772839	3/10/2019			FTT Inc.	High Pressure Ratio Twin Spool Industrial Gas Turbine Engine
22115-25P0K	201687004610.00	3/11/2019			FTT Inc.	High Pressure Ratio Twin Spool Industrial Gas Turbine Engine
22115-25P0J	2016-024934	4/15/2016	8658913.00	8/22/2018	FTT Inc.	High Pressure Ratio Twin Spool Industrial Gas Turbine Engine

22115-25PXR	20167090658	4/3/2016	1678241.00	7/18/2018	FTT Inc.	High Pressure Ratio Twin Spool Industrial Gas Turbine Engine
22115-25PUS	45921.521	3/11/2016			FTT Inc.	High Pressure Ratio Twin Spool Industrial Gas Turbine Engine
22115-26PCK	6162976913	8/4/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-26PCN	261688020316.00	8/30/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-26PEP	18721275.20	8/30/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-26PFI	201727028792.00	8/11/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-26PFR	133603140030508000.00	8/30/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-26PJP	2017-561386	8/7/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-26PJR	10-2017-7024460	8/31/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-26PJK	NK2017010201	8/7/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-26PRL	2017131217.00	8/5/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-26PQA	317382364.00	8/8/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-26PUS	13549050	8/4/2017			FTT Inc.	Apparatus And Process Of Retrofitting A Combined Cycle Power Plant
22115-27PEP	18710889.70	9/28/2018			FTT Inc.	Turbine Last Stage Rotor Blade With Fixed Driven Cooling Air
22115-27PWS	PCTUS181021217	3/7/2018			FTT Inc.	Turbine Last Stage Rotor Blade With Fixed Driven Cooling Air
22115-28PEP	16710365.00	9/28/2018			FTT Inc.	Turbine Stator Vane With Inset And Flexible Seal
22115-28PWS	PCTUS181020945	3/4/2018			FTT Inc.	Turbine Stator Vane With Inset And Flexible Seal
22115-28PWO	PCTUS181040368	7/28/2018			FTT Inc.	Turboscharger With Oil-Free Hydrostatic Bearing
22115-30FOE	162018214476.00	8/4/2016			FTT Inc.	
22115-32PAG	2018352459.00	4/30/2018			FTT Inc.	CAES Combustor Test Facility
22115-32PCA	3078984.00	4/18/2018			FTT Inc.	CAES Combustor Test Facility
22115-32PCN	201669269755.40	5/28/2018			FTT Inc.	CAES Combustor Test Facility
22115-32PEP	16779262.10	4/30/2018			FTT Inc.	CAES Combustor Test Facility
22115-32PIN	2016337019589.00	4/7/2018			FTT Inc.	CAES Combustor Test Facility
22115-32PMDN		8/7/2018			FTT Inc.	CAES Combustor Test Facility
22115-32PUS	15739410	3/30/2018			FTT Inc.	CAES Combustor Test Facility
22115-33PBL	BR112018010024.6	7/23/2018			FTT Inc.	Turbopump With A Single Piece Housing And A Smooth Enamel Glass Surface
22115-33PEP	17702233.10	7/31/2018			FTT Inc.	Turbopump With A Single Piece Housing And A Smooth Enamel Glass Surface
22115-33PCK	1653429164580002	7/23/2018			FTT Inc.	Turbopump With A Single Piece Housing And A Smooth Enamel Glass Surface
22115-33PMDN		8/7/2018			FTT Inc.	Turbopump With A Single Piece Housing And A Smooth Enamel Glass Surface
22115-33PUS	PCTUS20161072067	7/23/2018			FTT Inc.	Turbopump With A Single Piece Housing And A Smooth Enamel Glass Surface
22115-33PWS	PCTUS20171014239	1/29/2017			FTT Inc.	Turbopump With A Single Piece Housing And A Smooth Enamel Glass Surface
22115-34PCN					FTT Inc.	Industrial Gas Turbine Engine With First And Second Stage Rotor Cooling
22115-34PEP					FTT Inc.	Industrial Gas Turbine Engine With First And Second Stage Rotor Cooling
22115-34PIN					FTT Inc.	Industrial Gas Turbine Engine With First And Second Stage Rotor Cooling
22115-34PJP					FTT Inc.	Industrial Gas Turbine Engine With First And Second Stage Rotor Cooling
22115-34PJR					FTT Inc.	Industrial Gas Turbine Engine With First And Second Stage Rotor Cooling
22115-34PUS					FTT Inc.	Industrial Gas Turbine Engine With First And Second Stage Rotor Cooling
22115-34PWS	PCTUS20171173820	3/6/2017			FTT Inc.	Industrial Gas Turbine Engine With First And Second Stage Rotor Cooling
22115-36PUS	PCTUS2016084376	10/17/2016			FTT Inc.	High Pressure Compressor Effluxor For An Industrial Gas Turbine Engine
22115-36PWO	PCTUS2017128152	4/24/2017			FTT Inc.	High Pressure Compressor Effluxor For An Industrial Gas Turbine Engine
22115-38PCN					FTT Inc.	Process For Retrofitting An Industrial Gas Turbine Engine For Increased Power And Efficiency
22115-38PEP					FTT Inc.	Process For Retrofitting An Industrial Gas Turbine Engine For Increased Power And Efficiency
22115-38PJR					FTT Inc.	Process For Retrofitting An Industrial Gas Turbine Engine For Increased Power And Efficiency
22115-38PUS	PCTUS20181015890	11/14/2018			FTT Inc.	Process For Retrofitting An Industrial Gas Turbine Engine For Increased Power And Efficiency
22115-38PWS	PCTUS2017102708	3/15/2017			FTT Inc.	Process For Retrofitting An Industrial Gas Turbine Engine For Increased Power And Efficiency
22115-37PCN					FTT Inc.	Twin Spool Industrial Gas Turbine Engine With Variable Inlet Guide Vanes
22115-37PJR					FTT Inc.	Twin Spool Industrial Gas Turbine Engine With Variable Inlet Guide Vanes
22115-37PWO	PCTUS2017128401	4/25/2017			FTT Inc.	Twin Spool Industrial Gas Turbine Engine With Variable Inlet Guide Vanes
22115-38PWO					FTT Inc.	
22115-39PWS	PCTUS2017105558	6/1/2017			FTT Inc.	Turbine Stator Vane With Multiple Outer Diameter Pressure Feeds
22115-40PWS	PCTUS2017071148	8/18/2017			FTT Inc.	Turbine Stator Vane With Closed-Loop Sequential Engagement Cooling Inlet
22115-41PWS	PCTUS2017102259	8/18/2017			FTT Inc.	Cooled Combustor Case With Over-Pressurized Cooling Air
22115-43PWO	PCTUS2017046584	8/2/2016			FTT Inc.	Blade Outer Air Seal With Cooled Non-Symmetric Curved Teeth
22115-44PWO	PCTUS2017103248	8/1/2017			FTT Inc.	High Pressure Ratio Twin Spool Industrial Gas Turbine Engine With Dual Flow High Speed Compressor
22115-45PWO	PCTUS2017150395	9/18/2017			FTT Inc.	Apparatus And Process For Testing A Large Compressor Using A Case Facility
22115-46PWO	PCTUS2017105130	10/8/2017			FTT Inc.	Raw Seal For A Turbine

22115-47PWS	PCTUS201702024	6/3/2017			FTT inc.	Advanced Lean Burn Injector Igniter System
22115-46PWS	PCTUS20170202225	8/19/2017			FTT inc.	Apparatus And Process For Coowering An Aero Gas Turbine Engine Into An Industrial Gas Turbine Engine For Electric Power Production
22115-46PWS	PCTUS201708162	12/22/2017			FTT inc.	Blade Outer Air Seal With Coated Non-Symmetric Grooved Teeth
22115-50PWO	PCTUS201708096	10/30/2017			FTT inc.	Apparatus And Process For Removing Support Structure From A 3D Printed Part
22115-61PWO	PCTUS2018101716	10/26/2018			FTT inc.	Turbinecharged Gas Turbine Engine With Electric Power Generation For Small Aircraft Electric Propulsion
22115-63PWO	PCTUS2018080747	8/21/2018			FTT inc.	Apparatus And Process For Refining Features In An Additive Manufactured Part
22115-803F	11081_315	3/18/2005	7385556	11/27/2007	FTT inc.	Lowinlet Transonicflow Airfoil W Jacket
22115-81J	10346_257	8/22/2003	8871606	2/22/2005	FTT inc.	Talored Abcachment Mechanism For Compressor Airfoil
22115-81J	10346_338	10/14/2003	7_174_797	2/13/2007	FTT inc.	High Temperature & Pressure Testing Facility
EP7083	PCTUS20110571956	10/26/2011	EP2653196		FTT inc.	Large Floating Vertical Axis Wind Turbine
EP7102	PCTUS2012020231 Invent PT2012EP03631689A	5/27/2013			FTT inc.	Apparatus For Testing An Industrial Gas Turbine
F1604R	13067_704	1/17/2011	8478121	7/2/2013	FTT inc.	Ring Segment For Industrial Gas Turbine
F1608R	13027_779	6/22/2010	9478122	7/2/2013	FTT inc.	Boas With Circumferentially Cooled Teeth
F1608R	13027_775	6/23/2010	9473997	12/24/2013	FTT inc.	Turbine Blade With Trailing Edge Coating
F1611R	13049_371	11/17/2009	8777588	7/16/2014	FTT inc.	Turbine Vane With Impingement Cooling Inset
F1613R	13032_975	8/02/2010	9045180	10/1/2013	FTT inc.	Turbine Blade With Showerhead Film Cooling Holes
F1617R	13033_655	9/28/2011	8840437	2/4/2014	FTT inc.	Mini Sized Combined Cycle Power Plant
F1619R	13042_676	4/13/2010	8432048	4/30/2013	FTT inc.	Hybrid Engine With A Gas Turbine Engine
F1620R	13087_633	7/11/2010	8582355	3/18/2013	FTT inc.	High Response Air Angle Probe
F1622R	13083_043	4/25/2011			FTT inc.	Process For Maching A Fluid Film Beading Using Cst
F1623R	13052_319	2/24/2011	8622396	1/21/2014	FTT inc.	Turbine Vane With Endwall Cooling
F1626R	13070_998	11/22/2010	8889707	12/9/2013	FTT inc.	Process For Analyzing A Labyrinth Seal For Pactor
F1631R	13026_426	12/30/2009	8230653	8/28/2012	FTT inc.	Hybrid Propeller Rocket Engine
F1635R	13115_038	8/17/2010	8737601	6/24/2014	FTT inc.	Industrial Turbine Stator Vane
F1638R	13086_800	4/12/2011	8897488	1/18/2014	FTT inc.	Power Plant For Use
F1639R	13188_075	3/21/2011	8628296	1/14/2014	FTT inc.	Turbine Rotor Blade With Serpentine Cooling
F1642R	13078_752	7/18/2010	8788045	4/28/2014	FTT inc.	Turbine Blade With Multi-Vortex Tip Cooling Channels
F1645R	13113_020	8/10/2011	8670924	10/28/2014	FTT inc.	Industrial Turbine Stator Vane
F1680R	13025_856	9/8/2011	8884441	10/21/2014	FTT inc.	Rocket Engine Testpump
F1689R	13067_476	4/7/2010	8291810	8/11/2012	FTT inc.	Turbine Airfoil Ceramic Core With Strain Relief Slot
F1106R	13048_946	1/28/2012	8894487	10/21/2014	FTT inc.	Turbine Blade Serpentine Flow Cooling
F1108R	13173_380	5/18/2010	8371178	2/12/2013	FTT inc.	Turbopump With Rotor Torque Sensor
F1114R	13040_404	2/20/2012	8951848	10/7/2014	FTT inc.	Turbine Blade With Showerhead Film Cooling Slots
F1118R	13041_850	8/14/2008	8322886	12/4/2012	FTT inc.	Air Cooled Turbine Airfoil With Sequential Impingement Cooling
F1127R	13044_987	1/26/2011	8641362	2/4/2014	FTT inc.	Turbine Exhaust Cylinder And Shaft Cooling
F1128R	14033_226	11/20/2014	1068947	5/22/2017	FTT inc.	Multiple Wall Impingement Plate For Sequential Impingement Cooling Of An Etrusnal
F1126R	13021_848	10/30/2011	8841288	9/30/2013	FTT inc.	Variable Bypass Ratio Augmented Gas Turbine Engine
F1134R	13456_342	4/27/2012	8878475	1/14/2014	FTT inc.	Turbine Blade With Radial Cooling Passage Having Continuous Discrete Turbulence Mixers
F1136CP	13026_378	2/18/2009	8197537	5/1/2012	FTT inc.	Air Cooled Turbine Airfoil With Sequential Impingement Cooling
F1143R	13051_804	11/18/2011	8734108	8/27/2014	FTT inc.	Turbine Blade With Impingement Cooling Cavities And Platform Cooling Channels Connected In Series
F1146R	13037_318	5/21/2011	8758811	8/24/2014	FTT inc.	Turbine Exhaust Cylinder Cooling With Heat Shield
F1150R	13018_489	12/10/2011	8777571	7/16/2014	FTT inc.	Turbine Airfoil With Canted Diffusion Flow Cooling Slot
F1152R	13018_820	3/22/2012	8413458	4/8/2013	FTT inc.	Method For Debating A Defect On An Operating Turbine Rotor Blade
F1156R	13036_714	11/26/2012	8878788	3/25/2014	FTT inc.	Turbine Blade With Near Wall Cooling Channels
F1157R	13036_728	9/29/2012	8900403	8/8/2013	FTT inc.	Turbine Blade With Counter Flowing Near Wall Cooling Channels
F1164P2_P01					FTT inc.	Core Combustor Test Facility
F1167R	13086_801	10/20/2010	8598578	10/19/2013	FTT inc.	Spring Loaded Complier Seal For High Temperature Use
F1168R	13077_280	3/22/2012	9228437	1/12/2016	FTT inc.	Turbine Airfoil With Pressure Side Trailing Edge Cooling Slots
F1188R	13012_880	3/8/2012	9174426	11/3/2015	FTT inc.	Shrouded Centrifugal Impeller For High Speed Use
F1171R	13047_277	10/27/2010	8441265	4/8/2013	FTT inc.	Turbine Stator Vane With Near Wall Integrated Micro Cooling Channels
F1176C	15096_264	3/5/2016			FTT inc.	Liquid Rocket Engine With Mercedes Cooling
F1186R	13015_662	3/15/2013	8994828	7/18/2016	FTT inc.	Circulating Fluidized Bed Cooling For An Industrial Gas Turbine Engine
F1201CP	14011_211	10/10/2014	8911746	4/4/2017	FTT inc.	Sequential Cooling Inset For Turbine Stator Vane
F1201D	14176_738	2/19/2014	8976484	1/14/2014	FTT inc.	Sequential Cooling Inset For Turbine Stator Vane
F1201R	13688_083	5/18/2011	8564828	4/12/2014	FTT inc.	Sequential Cooling Inset For Turbine Stator Vane
F1211C	15080_259	5/3/2017			FTT inc.	Rim Seal For A Turbine
F1211C_P01					FTT inc.	Rim Seal For A Turbine

F1215R	43972,968	8/13/2012	8006587	12/1/2015	FTT Inc.	Extendable Nozzle For Rocket Engine
F1215R	43925,261	5/22/2012	8006405	8/8/2013	FTT Inc.	Industrial Stator Vane With Sequential Impingement Cooling Inserts
F1222C	18192,827	8/14/2018			FTT Inc.	Ram Air Turbine For High Mach Flight Speed Aircraft
F1222R	13622,463	8/18/2012			FTT Inc.	Ram Air Turbine For High Mach Flight Speed Aircraft
F1230CIP	14450,044	8/4/2014	8552827	5/31/2015	FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling
F1230CIP PCT					FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling
F1235P PCT					FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling
F1235R	64955,962	10/16/2013	8788377	7/28/2014	FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling
F1235R PCT					FTT Inc.	Gas Turbine Engine With Liquid Metal Cooling
F1235R	13952,508	10/16/2012	8891587	11/11/2014	FTT Inc.	Method For Testing Variable Cooling Geometries In A Turbine Vane
F1238R	13684,489	10/31/2012	9264159	12/1/2015	FTT Inc.	IR Detection Of Small Cracks During Fatigue Testing
F1240R	13687,000	11/28/2012	9467932	8/22/2015	FTT Inc.	Turbine Rotor Blade With Tip Cooling
F1247H	13881,848	11/20/2012	9109491	8/18/2015	FTT Inc.	Turbine Blade With Micro Sized Near Wall Cooling Channels
F1257D2	15120,057	7/1/2016	9884798	3/28/2017	FTT Inc.	Process For Testing A Compressor Or A Combustor Of A Gas Turbine Engine Using A Large Compressed Air Storage Reservoir
F1257D3	15120,102	7/1/2016	9854181	5/18/2017	FTT Inc.	Process For Testing A Compressor Or A Combustor Of A Gas Turbine Engine Using A Large Compressed Air Storage Reservoir
F1257D4	15120,125	7/1/2016	9850584	11/22/2016	FTT Inc.	Process For Testing A Compressor Or A Combustor Of A Gas Turbine Engine Using A Large Compressed Air Storage Reservoir
F1257R	14934,218	11/8/2015	9410888	8/9/2016	FTT Inc.	Process For Testing A Compressor Or A Combustor Of A Gas Turbine Engine Using A Large Compressed Air Storage Reservoir
F1268C	18135,515	10/10/2018			FTT Inc.	Gas Turbine Engine Component With Wireless Micro Sensors
F1287R	13792,883	3/11/2015	9175826	11/3/2015	FTT Inc.	Split Ring Floating Air Riding Seal For A Turbine
F1270R	14101,701	12/10/2013	9421935	8/22/2016	FTT Inc.	Process For Forming An Air Cooled Turbine Airfoil
F1272R	14030,102	8/18/2013	9880954	11/22/2016	FTT Inc.	Turbine With Radial Acting Seal
F1283R	14955,354	10/26/2013	9416614	8/16/2016	FTT Inc.	Finishing Air Riding Seal For A Turbine
F1285R PCT					FTT Inc.	Rim Seal For A Split Case Turbine
F1300C	18246,803	8/25/2016			FTT Inc.	Airborne High Power Density Turbo-Alternator
F1301CIP	15704,345	8/14/2017			FTT Inc.	Laser Gun With A Turbine Driven Generator
F1302R	15810,702	8/1/2017			FTT Inc.	Floating Air Seal With Robustness Magnet For A Turbine
F1304 PCT					FTT Inc.	Gas Turbine Engine With Turbine Cooling And Combustor Air Preheating
F1309P PCT					FTT Inc.	High Pressure Ratio Two Speed Industrial Gas Turbine Engine
F1310R	14512,076	10/10/2016	9870151	11/7/2017	FTT Inc.	Turbine Last Stage Rotor Blade With Forward Driven Cooling Air
F1310R PCT					FTT Inc.	Turbine Last Stage Rotor Blade With Forward Driven Cooling Air
F1315R	14245,128	4/4/2014	9540952	1/10/2017	FTT Inc.	Turbocharger With Oil-Free Hydrostatic Bearing
F1315R PCT					FTT Inc.	Turbocharger With Oil-Free Hydrostatic Bearing
F1317R	14534,489	11/4/2014	9511725	4/4/2017	FTT Inc.	Turbine Stator Vane With Insert And Flexible Seal
F1317R PCT					FTT Inc.	Turbine Stator Vane With Insert And Flexible Seal
F1318RTC	15870,417	5/3/2016			FTT Inc.	Turbine Airfoil With Leading Edge Cooling Circuit
F1321R	15143,656	5/2/2016	10024190	7/17/2018	FTT Inc.	Apparatus And Process For Forming An Air Cooled Turbine Airfoil With A Cooling Air Channel And Discharge Slot In A Thin Wall
F1326R	14746,317	8/18/2015	9732622	8/15/2017	FTT Inc.	Self-Balancing Air Riding Seal For A Turbine
F1335R	14165,555	1/24/2014	8894488	10/21/2014	FTT Inc.	Turbine Rotor Blade With Super Cooling
F1334R	14730,528	8/15/2015	9771821	3/28/2017	FTT Inc.	Turbine Interstage Seal With Self-Balancing Capability
F1336R	14730,088	7/6/2015	9584798	7/18/2016	FTT Inc.	Air Riding Seal For A Turbine
F1344C	15704,683	8/14/2017	10022290	8/25/2018	FTT Inc.	Advanced Lean Burn Injector Igniter System
F1344R	14814,215	2/4/2015	9822977	11/21/2017	FTT Inc.	Advanced Lean Burn Injector Igniter System
F1344R PCT					FTT Inc.	Advanced Lean Burn Injector Igniter System
F1346C	15067,868	12/2/2013			FTT Inc.	Small Turbine Stator Vane With Impingement Cooling Insert
F1348R	14291,518	5/30/2014	8591628	2/28/2017	FTT Inc.	Small Turbine Stator Vane With Impingement Cooling Insert
F1358R	14925,507	2/18/2015	8788458	7/18/2017	FTT Inc.	Sensor For Detecting Hydrate Accumulation In A Static Clean Line
F1381R	18130,429	10/10/2018			FTT Inc.	Apparatus And Process For Installing Instrumentation On Thin-Wall Materials
F1387CIP	15182,322	5/11/2017			FTT Inc.	Superconducting Electric Boost Pump For Nuclear Thermal Propulsion
F1371R	14882,393	10/14/2015			FTT Inc.	Apparatus And Process For Automatically Detecting A Defect In A Sonic Interfered Inspection Data
F1375R	14549,492	11/20/2014	9732921	8/15/2017	FTT Inc.	Air Riding Seal With Purge Cavities
F1380R	15235,486	10/27/2018			FTT Inc.	High Temperature Air Cooled Sensor For Turbine Exhaust
F1381R	14967,848	1/28/2015	10054995	8/21/2018	FTT Inc.	Turbocharger With Oil-Free Hydrostatic Bearing
F1381R PCT					FTT Inc.	Turbocharger With Oil-Free Hydrostatic Bearing
F1382R	14548,388	11/20/2014	9684072	5/8/2018	FTT Inc.	Liquid Rocket Engine With Hybrid Electric Motor Driven Pump
F1383C2	15691,801	2/8/2018			FTT Inc.	Integrally Bladed Rotor With Cooling Circuit Having Dirt Separation Features
F1388H	14854,119	8/15/2015	10191211	12/11/2018	FTT Inc.	Apparatus And Process For Converting An Aero Gas Turbine Engine Into An Industrial Gas Turbine Engine For Electric Power Production
F1388R PCT					FTT Inc.	Apparatus And Process For Converting An Aero Gas Turbine Engine Into An Industrial Gas Turbine Engine For Electric Power Production

F1386R	45156,946	5/22/2019			FTT Inc.	Small Gas Turbine Engine With Heat Pipe Cooled Bearing
F1381R	45227,176	6/3/2016			FTT Inc.	Two Stage Axial Flow Compressor For Low Emissions
F1382R	45052,292	4/8/2016			FTT Inc.	High Pressure Ratio Twin Spool Industrial Gas Turbine Engine With Dual Flow Compressor
F1382R PCT					FTT Inc.	High Pressure Ratio Twin Spool Industrial Gas Turbine Engine With Dual Flow Compressor
F1383H	45087,579	3/11/2016			FTT Inc.	Air Holding Seal Spring System For Small Diameters
F1384H	45283,497	6/13/2016			FTT Inc.	Low Swirl Burner With Liquid Fuel Injection
F1385A	45278,106	6/28/2016			FTT Inc.	Low Swirl Burner With Radial Inlets
F1386C	45386,972	2/1/2016			FTT Inc.	Powder Seed Fusion Of Gamma-Phase Precipitation Hardened Alloys
F1386R	45146,056	5/4/2016			FTT Inc.	High Pressure Compressor Diffuser For An Industrial Gas Turbine Engine
F1406R	45131,110	4/18/2019			FTT Inc.	Turbine Rotor Cooling Air Stable Collectors
F1401R	45137,280	4/25/2016			FTT Inc.	Low Pressure Compressor Diffuser And Cooling Flow Bleed For An Industrial Gas Turbine Engine
F1402H	45173,773	8/8/2019			FTT Inc.	Apparatus And Process For Manufacturing A Centrifugal Pump With A Rotor Within A Single Piece Housing
F1409R	44825,819	7/22/2015	10096293	8/28/2018	FTT Inc.	Apparatus And Process For Refining Features In An Additive Manufactured Part
F1409R PCT					FTT Inc.	Apparatus And Process For Refining Features In An Additive Manufactured Part
F1409R	45137,268	4/25/2016			FTT Inc.	Twin Spool Industrial Gas Turbine Engine With Variable Inlet Guide Vanes
F1409R PCT					FTT Inc.	Twin Spool Industrial Gas Turbine Engine With Variable Inlet Guide Vanes
F1414R	45074,158	3/18/2016			FTT Inc.	Single Stage Twin Steam Compressor
F1419D	46164,308	8/17/2016			FTT Inc.	Process For Repairing A Worn Carbide-Coated Steel Surface Of A Sprag Clutch
F1419H	45338,672	10/31/2016	10023748	8/21/2019	FTT Inc.	Process For Repairing A Worn Carbide-Coated Steel Surface Of A Sprag Clutch
F1425C	46155,811	10/10/2018			FTT Inc.	Apparatus And Process For Forming A Composite Spine And Shell Turbine Rotor Blade
F1426R	45174,051	9/8/2016			FTT Inc.	Variable Low Turbine Vane With Air Rotation Axis
F1426R PCT					FTT Inc.	Variable Low Turbine Vane With Air Rotation Axis
F1426R	45006,946	1/29/2019	9596550	11/29/2016	FTT Inc.	Turbine Rotor Blade Of The Spine And Shell Construction
F1432R	44994,469	1/8/2016	9943281	9/9/2017	FTT Inc.	Process Of Forming A Metal Part From A Metal Powder Using A Laser To Melt The Metal Powder Over A Support Surface That Can Be Easily Removed After The Metal Part Has Been Formed
F1433R	45255,210	8/9/2016			FTT Inc.	Turbine Stator Vane With Closed-Loop Sequential Impingement Cooling Inlet
F1433R PCT					FTT Inc.	Turbine Stator Vane With Closed-Loop Sequential Impingement Cooling Inlet
F1434H	45370,017	12/8/2016			FTT Inc.	Compressor Rotor Blade With Blade Tip Vortex Generator
F1435H	45283,499	6/13/2016			FTT Inc.	Hybrid Hydrostatic Magnetic Bearing For Pump Applications
F1439R	45053,008	2/26/2016			FTT Inc.	Apparatus And Process For Determining A Convective Heat Transfer Coefficient Between A Moving Fluid And A Bounding Surface
F1438R	45227,091	6/3/2016			FTT Inc.	Turbopump With A Single Piece Housing And A Smooth Enamel Glass Surface
F1438R PCT					FTT Inc.	Turbopump With A Single Piece Housing And A Smooth Enamel Glass Surface
F1442R	46190,228	8/23/2016	9826678	11/29/2017	FTT Inc.	Apparatus And Process For Removing Support Structures From A 3D Printed Part
F1442R PCT					FTT Inc.	Apparatus And Process For Removing Support Structures From A 3D Printed Part
F1443P PCT					FTT Inc.	Industrial Gas Turbine Engine With High Pressure Cooling Air Delivery Through The Compressor
F1444P PCT					FTT Inc.	High Pressure Cooling Air Return Ducting For Turbine Thrust Balance
F1445R	45405,497	1/13/2017			FTT Inc.	Turbine Stator Vane With Multiple Oil Pressure Feeds
F1445R PCT					FTT Inc.	Turbine Stator Vane With Multiple Oil Pressure Feeds
F1446R PCT					FTT Inc.	Blade Outer Air Seal With Coated Non-Symmetric Curved Teeth
F1447P PCT					FTT Inc.	Industrial Gas Turbine Engine With Thrust Balance And Leak Management Between A Generator And The Compressor
F1448R	46190,232	11/10/2016			FTT Inc.	Cooled Compressor Case With Over-Pressurized Cooling Air
F1448R PCT					FTT Inc.	Cooled Compressor Case With Over-Pressurized Cooling Air
F1489P PCT					FTT Inc.	Self-Supporting Rotor Disk With Staggered And Angled Cooling Supply Holes
F1451P PCT					FTT Inc.	Turbine Rotor PadDED Mini-Disk And Multi-Blade Cooling Supply
F1452P PCT					FTT Inc.	Gas Turbine Rotor Semi-Closed Loop Cooling Rotor
F1455R	45157,268	5/17/2019			FTT Inc.	Process For Retrofitting An Industrial Gas Turbine Engine For Increased Power And Efficiency
F1455R PCT					FTT Inc.	Process For Retrofitting An Industrial Gas Turbine Engine For Increased Power And Efficiency
F1457R	46435,352	2/15/2017			FTT Inc.	Turbine Airfoil With Thin Leading Edge Cooling Circuit
F1458H	45131,609	4/18/2016			FTT Inc.	Industrial Gas Turbine Engine With Turbine Jetair Cooling
F1458H PCT					FTT Inc.	Industrial Gas Turbine Engine With Turbine Jetair Cooling
F1481HA	45248,572	4/26/2016			FTT Inc.	Process For Joining Bodies Connected By Additive Manufactured Support Structure Through The Use Of High Ultrasound
F1452R	45286,765	1/5/2017			FTT Inc.	Apparatus And Process For Re-Using A Retired Main-Shaft Gas Turbine Engine That Is Ready For Overhaul For An Unseen-Rated Mission
F1484R	45444,374	2/28/2017			FTT Inc.	Twin Spool Industrial Gas Turbine Engine Low Pressure Compressor With Diffuser
F1484R PCT					FTT Inc.	Twin Spool Industrial Gas Turbine Engine Low Pressure Compressor With Diffuser
F1486R	45286,227	8/2/2016			FTT Inc.	Air Cooled Turbine Rotor Blade For Closed Loop Cooling
F1486R PCT					FTT Inc.	Air Cooled Turbine Rotor Blade For Closed Loop Cooling
F1487H	45590,122	8/9/2017			FTT Inc.	Power Plant For Unmanned Aerial Vehicle
F1488H	45600,822	5/23/2017	9653335	1/9/2018	FTT Inc.	Aircraft With Gas Turbine Engine Having Outer Bypass Elements Removed

F1476R	45216,966	7/22/2019	8897413	3/30/2018	FTT Inc.	Process For Launching A Cruise Missile From An Aircraft
F1471R	45205,905	7/7/2016	10024470	7/17/2018	FTT Inc.	Integrally Bladed Rotor With Bore Entry Cooling Holes
F1473R	15395,344	5/12/2017			FTT Inc.	Robust Bell Allowers For Fuel Injectors
F1475R	15375,799	12/12/2016			FTT Inc.	Multiple Stage Pressure Balanced Hypersonic Heater
F1477H	15365,479	5/24/2017	10031648	7/24/2018	FTT Inc.	High Temperature High Pressure Non-Vitiated Heater
F1478R	15152,481	10/15/2016			FTT Inc.	Integrated Vaporizer Combustor
F1479R	15147,347	10/27/2017			FTT Inc.	Apparatus And Process Of Forming A Thin Walled Additive Manufactured Heat Exchanger
F1476R PCT					FTT Inc.	Apparatus And Process Of Forming A Thin Walled Additive Manufactured Heat Exchanger
F1484R	151421,751	2/1/2017			FTT Inc.	Small Gas Turbine Engine Mounted Within A Single-Phase Recuperator
F1485R	151405,151	1/17/2017			FTT Inc.	Small Gas Turbine Engine With Cooled Fan And Impeller
F1488P PCT					FTT Inc.	Apparatus And Process For Testing A Large Combustor Using A Creep Facility
F1488H	151429,212	2/15/2017			FTT Inc.	Turbocharger With Air Journal Bearing And Air Thrust Bearing
F1488P PCT					FTT Inc.	Turbocharged Gas Turbine Engine With Electric Power Generation For Small Aircraft Electric Propulsion
F1481R	151311,097	8/18/2016			FTT Inc.	Integrally Bladed Rotor With Cooling Channels
F1486R	151097,216	5/17/2017	9526988	3/27/2018	FTT Inc.	Gas Turbine Engine With Axial Flow Fan With Twin Stators Impeller And Variable Area Bypass Nozzle
F1484R	15105,718	2/13/2016			FTT Inc.	Directed Energy Weapon With Cooling
F1485R	15102,308	5/28/2017			FTT Inc.	Apparatus And Process For Testing An Aero Vehicle At High Mach Number
F1487R	151472,389	3/28/2017			FTT Inc.	Interlocking Axial Labyrinth Seal
F1488P PCT	151485,485	10/18/2016			FTT Inc.	Wear Resistant Coating To Protect Environmental Coating On A Refractory Alloy Turbine Hub Shroud Edge And Wear Resistant Coatings For Refractory Materials
F1500C	15135,554	10/18/2016			FTT Inc.	Additive Manufactured Film Cooling Hole
F1501H		5/24/2017			FTT Inc.	Gas Turbine Engine With Axial Thrust Balance
F1502R	151315,559	9/7/2017	9891768	6/5/2018	FTT Inc.	Gas Turbine Engine With Multiple Electric Generators
F1504R	151315,387	8/22/2016			FTT Inc.	Additively Manufactured Disk With Optimized Microstructure For Small Turbine Engines
F1506R	15126,305	10/20/2017			FTT Inc.	Axial Positioning And Axial Thrust Management Of A Rotor Using Magnetic Force Without An Axial Bearing
F1510R	151046,067	4/9/2016			FTT Inc.	Ramjet Engine With A Low Pressure Compressor
F1512R	151027,381	7/4/2016			FTT Inc.	Integrated Start/Generator For Small Gas Turbine Engine Using Dual Helicoid Axial On A Compressor
F1513H	151028,489	3/22/2016			FTT Inc.	Generator Cooling Impeller And Bearing/Rotor Cooling
F1514H	151028,509	3/22/2016			FTT Inc.	Turbine Secondary Air System And Thrust Management System
F1515R	151029,505	3/22/2016			FTT Inc.	Power Plant For A UAV With Geosensing Contact On Generator
F1516R	151135,446	5/25/2016			FTT Inc.	Fuel Nozzle Assembly With Heatshield
F1518R	151028,558	3/22/2016			FTT Inc.	Apparatus And Process For Rapid Deceleration Of Rotor Of Gas Turbine Engine To Reduce Wear On Bearings
F1519R	151028,538	3/22/2016			FTT Inc.	Apparatus And Process For Detecting Load Dump Or Mechanical Load Coupling Failure Of A Gas Turbine Driven Electric Generator
F1520R	151028,548	3/22/2016			FTT Inc.	Apparatus And Process For Optimizing Turbine Engine Performance Via Load Control Through A Fewer Control Modules
F1522R	151048,775	7/30/2016			FTT Inc.	Cost Integrally Bladed Rotor With Bore Entry Cooling
F1522H	62847,134	3/23/2016			FTT Inc.	Magnetic Gearbox With Air Film Bearings
F1523R	151032,134	7/11/2016			FTT Inc.	Magnetic Gearbox With Air Film Bearings
F1524R	151016,252	7/18/2016			FTT Inc.	Apparatus And Process Of Forming An Integrally Bladed Rotor With Coated Single Crystal Blades And An Exhaust Nickel Disk
F1525R	151015,503	5/18/2016			FTT Inc.	General Turboshaft Aero Gas Turbine Engine With Solid Bore Turbine Disk
F1526R	151015,008	5/18/2016			FTT Inc.	Flexible Sun Gear Shaft For Compact Epicyclic Geared Turboshaft
F1527R	151016,078	7/18/2016			FTT Inc.	Small Turbine Engine Rotary Disk Fuel Nozzle With Active Thermal Protection Optimized For Additive Manufacturing
F1528H	151007,004	5/11/2016			FTT Inc.	Gas Turbine Engine Fan Stage With Bearing Cooling
F1529H	151009,181	7/8/2016			FTT Inc.	Integrally Bladed Rotor Turbine With Serpentine Flow Cooling Passages Formed By A Metal Additive Manufacturing Process
F1531R	151032,182	7/11/2016			FTT Inc.	Apparatus And Process For Forming A Film Cooling Hole In A Metal Additive Manufactured Turbine Airfoil
F1532R	151052,951	8/2/2016			FTT Inc.	Variable Pitch Fan For Gas Turbine Engine
F1535P	121947,261	5/4/2016			FTT Inc.	Combustion System For Dual Mode Turbo-Ramjet Propulsion Unit
F1535R	151112,382	9/19/2016			FTT Inc.	Combustion System For Dual-Mode Turbo-Ramjet Propulsion Unit
F1534R	151027,349	7/4/2016			FTT Inc.	Gas Turbine Engine With Active Clearance Control
F1536R	151014,322	6/21/2016			FTT Inc.	Process Of Forming A Metal Additive Manufactured Part With A Smooth Surface
F1538P	621676,585	5/25/2016			FTT Inc.	Gas Turbine Engine With Afterburner In Bypass Outlet
F1537H	621889,273	6/25/2016			FTT Inc.	Gas Turbine Engine With Thrust Augmentation Using Water Injected Into Turbine Cooling Air
F1536P	621684,816	8/22/2016			FTT Inc.	Ceramic Radial Turbine
F1536P	621684,846	8/22/2016			FTT Inc.	Axial Thrust Fan Air Bearing With Thrust Sensor
F1545R					FTT Inc.	Turbine Airfoil With Trailing Edge Cooling Circuit
F1581P	617754,284	8/21/2016			FTT Inc.	Adjustable Flow Coating Treatment
F1588P		11/15/2016			FTT Inc.	Dimple Jet Airfoil With Pressure Surface Boundary Layer Ingestion
F668R	121588,389	6/11/2009	9068796	1/17/2012	FTT Inc.	Turbine Blade With Trailing Edge Impingement Cooling
F616R	121573,133	6/21/2007	7659777	8/14/2011	FTT Inc.	Thermal Mechanical Fatigue Test Rig



F628R	12045,342	2402009	8094787	11/12/2012	FTT Inc.	Turbine Blade With Serpentine Cooled Tip Shroud
F648R	12048,902	8112009	8118554	2012012	FTT Inc.	Turbine Vane With Endwall Coating
F658R	12051,824	2403008	8098788	11/12/2012	FTT Inc.	Air Cooled Turbine Airfoil With Sequential Coating
F661R	12062,244	71202010	8312475	11/27/2012	FTT Inc.	Turbine Airfoil With Nano Coating Channels
F663R	12069,007	8262010	8168912	5/10/2012	FTT Inc.	Electrode For Shaped Film Cooling Hole
F664R	12084,199	4232010	8587156	12/25/2012	FTT Inc.	Turbine Blade With A Tip Cap
F665R	02085,404	11/25/2008	8251880	8/28/2012	FTT Inc.	Turbine Airfoil With Near Wall Vortex Coating
F687R	02016,459	1/8/2006	8087683	1/3/2012	FTT Inc.	Turbine Blade With Showerhead Film Cooling Holes
F698R	120421,154	4/4/2006	8018584	9/13/2011	FTT Inc.	Turbine Blade With Leading Edge Impingement Coating
F699R	120425,874	8/22/2009	8118547	2/1/2012	FTT Inc.	Turbine Inter-Stage Gap Cooling Arrangement
F699R	120488,386	7/3/2009	8251330	7/31/2012	FTT Inc.	Turbine Blade With Film Cooling Slots
F699R	120488,010	5/15/2008	8063405	12/27/2011	FTT Inc.	High Temperature Bearing With Lubricant
F699R	120500,033	3/26/2011	8281350	7/8/2012	FTT Inc.	Turbine Rotor Blade
F699R	020415,022	3/24/2011	8088986	12/28/2011	FTT Inc.	Turbine Vane With Df Separators
F699R	020416,036	3/18/2008	8142158	3/27/2012	FTT Inc.	Turbine Vane With Df Separator
F699R	120416,488	4/20/2009	8070443	12/8/2011	FTT Inc.	Turbine Blade With Leading Edge Coating
F699R	120416,575	11/22/2008	8025482	9/27/2011	FTT Inc.	Turbine Blade With Dual Serpentine Cooling
F699R	120428,340	10/18/2007	8011889	9/8/2011	FTT Inc.	Turbine Blade With Serpentine Cooling
F701R	120500,627	8/18/2008	8182896	6/5/2012	FTT Inc.	Air Bearing
F704R	120708,371	8/17/2008	8547934	1/8/2013	FTT Inc.	Combined Cycle Power Plant
F708R	120605,346	3/4/2009	8282592	10/23/2012	FTT Inc.	Turbine Blade With Serpentine Flow Cooling
F709R	120465,076	11/22/2008	8083486	12/27/2011	FTT Inc.	Turbine Blade With Cooling Flow Modulation
F709R	120408,028	8/27/2008	7997588	6/28/2011	FTT Inc.	Low Cooling Flow Turbine Blade
F710R	120465,388	7/20/2007	8070495	12/8/2011	FTT Inc.	Split Ring Wedge Bearing Design
F713R	120717,387	1/23/2009	7993031	3/15/2011	FTT Inc.	Process For Measuring A Part
F718R	120582,194	7/12/2010	8368370	3/18/2013	FTT Inc.	Turbine Blade With Multi-impingement Cooling
F719R	120582,057	1/18/2010	8317473	11/27/2012	FTT Inc.	Turbine Blade With Leading Edge Coating
F719R	120557,394	10/22/2008	8038206	12/25/2012	FTT Inc.	Process For Forming A High Temperature Turbine Rotor Blade
F719R	120428,742	1/29/2008	8007287	8/30/2011	FTT Inc.	High Temperature Turbine Rotor Blade
F721R	120444,355	7/21/2010	8382488	2/26/2013	FTT Inc.	Process Of Forming A High Temperature Turbine Rotor Blade
F721R	120410,488	7/7/2011	8052381	1/18/2011	FTT Inc.	High Temperature Turbine Rotor Blade
F722R	120454,049	4/8/2008	8081980	11/22/2011	FTT Inc.	Turbine Rotor Blade With Low Cooling Flow (Lot Of 13)
F728R	120283,885	8/18/2008	8152408	4/10/2012	FTT Inc.	Floating Air Seal For A Turbine
F728R	120418,280	12/18/2008	8068473	11/26/2011	FTT Inc.	Floating Air Seal For A Turbine
F728R	120731,826	11/22/2010	8071958	8/29/2013	FTT Inc.	Multiple Piece Turbine Rotor Blade
F730R	120436,544	10/21/2010	8386582	2/8/2013	FTT Inc.	Compressed Air Cooled Turbine Rotor Blade
F731R	120885,288	3/30/2010	8444588	5/21/2013	FTT Inc.	Turbine Blade With Multiple Near Wall Serpentine Flow Cooling
F732R	120426,346	12/15/2008	8070480	12/8/2011	FTT Inc.	High Temperature Turbine Rotor Blade
F737R	120470,384	5/20/2006	8138358	3/20/2012	FTT Inc.	Heat Reservoir For A Power Plant
F742R	120488,578	12/18/2008	8068485	11/26/2011	FTT Inc.	Turbine Blade Tip Section Coating
F744R	120483,914	8/23/2008	8100954	1/24/2012	FTT Inc.	Turbine Blade With Impingement Cooling
F751R	120487,009	5/15/2008	7824190	11/22/2010	FTT Inc.	Multiple Piece Turbine Airfoil
F753R	120466,346	8/14/2008	7828515	11/8/2010	FTT Inc.	Multiple Piece Turbine Airfoil
F771R	120486,178	7/8/2006	8186683	5/28/2012	FTT Inc.	Multiple Piece Turbine Blade
F773R	120682,008	8/24/2011	8392481	2/26/2013	FTT Inc.	Turbine Rotor Blade
F774R	120681,682	8/26/2008	8386738	1/29/2013	FTT Inc.	Turbine Blade With Customized Cooling Channels
F778R	120620,107	5/17/2008	8272644	9/28/2012	FTT Inc.	Floating End Seal
F782R	120544,879	3/22/2011	8282334	10/16/2012	FTT Inc.	Turbine Inter-Segment Mate-Face Coating Design
F783R	120809,577	3/18/2010	8454310	6/4/2013	FTT Inc.	Compressor Blade With Tip Sealing
F784R	120611,029	12/17/2008	8182221	5/22/2012	FTT Inc.	Turbine Blade With Tip Sealing And Coating
F795R	120526,668	9/23/2009	8017472	11/27/2012	FTT Inc.	Large Twisted Turbine Rotor Blade
F795R	120441,188	8/10/2011	8333644	12/18/2012	FTT Inc.	Cent Seal For A Turbine
F798R	120682,048	4/15/2011	8393858	3/12/2013	FTT Inc.	Cent Seal For A Turbine
F798R	120681,868	8/17/2008	8152816	3/13/2012	FTT Inc.	Cent Seal For A Turbine
F798R	120671,571	10/1/2010	8272846	9/25/2012	FTT Inc.	Process For Sealing A Throat Length Of A Jet Pump
F800R	120671,579	7/8/2009	8222897	7/17/2012	FTT Inc.	Process To Detect Two-Phase Flow In A Centrifugal
F800R	120543,796	1/13/2010	8152482	4/18/2012	FTT Inc.	Good Seal With Conical Flexible Seal

F007R	12016,374	11-17-2008	8790083	7-28-2014	FTT Inc.	Turbine Airfoil With Trailing Edge Cooling
F008R	12067,264	4-28-2010	8197211	6-12-2012	FTT Inc.	Compressible Air Cooled Turbine Rotor Blade
F009R	12766,240	3-14-2008	8512880	8-27-2013	FTT Inc.	Turbine Blade With Platform Cooling
F010R	12766,248	2-18-2010	8342802	1-12-2015	FTT Inc.	Twin Turbine Blade With Near Wall Cooling
F011R	12582,313	1-18-2010	8458826	5-14-2013	FTT Inc.	Turbine Blade Outer Air Seal
F024R	12788,879	7-22-2010	8281934	8-18-2012	FTT Inc.	Turbine Vane Mate Face Seal Assembly
F028R	12627,885	1-17-2011	8613188	12-14-2013	FTT Inc.	Centrifugal Impeller For Rocket Engine Having High And Low Pressure Outlets
F029R	12626,465	7-2-2012	8678784	3-25-2014	FTT Inc.	Tip Cap For Turbine Rotor Blade
F035R	12915,305	1-15-2009	7750482	7-8-2010	FTT Inc.	Seamless Floating Wind Turbine
F037R	12954,478	8-16-2012	8858678	10-19-2013	FTT Inc.	Cooled Ibr For A Micro-Turbine
F055R	13683,285	1-25-2010	8312474	11-27-2012	FTT Inc.	Turbine Blade With Near Wall Cooling
F058R	13683,314	10-28-2009	8251828	8-28-2012	FTT Inc.	Tip Cap For Turbine Rotor Blade
F066R	12725,787		8887943	8-18-2014	FTT Inc.	Turbine Blade With Trailing Edge Cooling Circuit
F068C	13758,808	4-28-2012	8481710	8-11-2013	FTT Inc.	High Speed Industrial Gas Turbine Engine With Co-Rotating Generator For High Speed
F071R	12689,488	11-11-2011	8157507	4-17-2012	FTT Inc.	Compress Stator Assembly
F080R	12705,241	2-18-2010	8384735	7-18-2018	FTT Inc.	Multiple Piece Turbine Rotor Blade
F083R	12700,837	12-12-2011	8497281	4-2-2013	FTT Inc.	Johnson Scorton Cycle Rocket Engines
F070R	12708,121	1-21-2011	8438204	9-7-2013	FTT Inc.	Turbine Blade With Tip Seal Cooling
F078R	12728,527	7-2-2012	8481264	7-23-2013	FTT Inc.	Turbine Blade With Trailing Edge Cooling
F082R	12758,815	11-22-2010	8555285	11-16-2013	FTT Inc.	Turbine Blade With Triple Pass Serpentine Cooling
F083R	12728,458	4-12-2012	8468933	8-11-2013	FTT Inc.	Turbine Vane With Exhaust Cooling
F084R	12748,558	12-1-2010	8444388	5-21-2013	FTT Inc.	Multiple Piece Turbine Rotor Blade
F085C	13946,874	11-22-2010	8672038	11-8-2013	FTT Inc.	Advanced Hot Section Materials And Coatings Test Rig
F090R	12914,138	8-28-2009	8281648	10-14-2012	FTT Inc.	Advanced Hot Section Materials And Coatings Test Rig
F091R	12782,118	8-17-2009	8361424	2-28-2013	FTT Inc.	Turbine Vane Mate Face With Impingement Cooling
F098R	12820,194	3-18-2010	8481283	7-28-2013	FTT Inc.	Turbine Blade With Cooling And Sealing
F098R	12821,584	12-1-2010	8618845	12-11-2013	FTT Inc.	Turbine Blade With Tip Cooling Circuit
F099R	12820,228	7-21-2008	8454301	6-4-2013	FTT Inc.	Turbine Blade With Serpentine Cooling
F002C	13105,054	8-18-2012	8474238	7-2-2013	FTT Inc.	Industrial Gas Turbine Engine
F002R	12784,827	10-16-2007	7980082	7-18-2011	FTT Inc.	Industrial Gas Turbine Engine
F004R	12748,267	7-18-2008	7893558	2-22-2011	FTT Inc.	Vertical Axis Wind Turbine With Direct Drive Generator
F005R	12781,327	10-1-2008	8213845	7-10-2012	FTT Inc.	Floating Air Seal For A Turbine Machine
F008R	12834,871	8-23-2011	8317476	11-27-2012	FTT Inc.	Turbine Blade With Tip Cooling Circuit
F008R	12840,841	8-18-2008	8388384	3-18-2013	FTT Inc.	Turbine Stator Vane With Endwall Cooling
F011R	12840,871	8-18-2008	8388380	3-5-2013	FTT Inc.	Turbine Ring Segment
F013R	12785,766	8-22-2011	8386188	2-5-2013	FTT Inc.	Multiple Piece Turbine Blade/Vane
F014R	12817,448	11-22-2010	8770613	7-8-2014	FTT Inc.	Apparatus And Process For Rotor Creep Monitoring
F018R	12834,288	8-21-2009	8386571	3-18-2013	FTT Inc.	Turbine Blade With Multiple Near Wall Serpentine Flow Cooling
F019R	12840,878	3-8-2011	8430828	4-30-2013	FTT Inc.	Turbine Vane With Mate Face Seal
F020R	12638,918	1-28-2008	8522286	8-23-2011	FTT Inc.	Aerodynamically Modified Labyrinth Seal
F028R	12808,945	8-18-2012	8558252	8-13-2013	FTT Inc.	Turbine Blade With Multiple Impingement Cooling
F028R	12888,817	10-19-2010	8588997	10-28-2013	FTT Inc.	Turbine Blade With Core Print-Out Hole
F042R	12896,372	10-21-2010	8695241	8-13-2013	FTT Inc.	Turbine Blade With Cooling And Tip Sealing
F054R	12896,403	10-21-2010	8695384	2-5-2013	FTT Inc.	Turbine Blade With Tip Seal Cooling Channel
F058R	12806,421	6-8-2010	8396885	2-5-2013	FTT Inc.	Turbine Blade With Cooling
F068R	12891,546	3-25-2010	8511888	8-27-2013	FTT Inc.	Turbine Blade With Platform Cooling
F662R	12691,888	4-23-2010	8517887	8-27-2013	FTT Inc.	Turbine Vane With Cooled Flow Cooling Passages
F061R	12851,888	11-8-2010	8581181	11-26-2013	FTT Inc.	Film Cooling Hole For Turbine Airfoil
F062R	12851,584	10-18-2013	8778936	7-8-2014	FTT Inc.	Turbine Blade With Near Wall Cooling Channels
F064R	12841,336	3-21-2011	8688980	12-18-2013	FTT Inc.	Turbopumps With A Tapered Hydrostatic Bearing
F007R	12895,274	10-8-2012	8672648	11-8-2013	FTT Inc.	Rocket Engine Propulsion System
F073R	12913,823	7-21-2010	8421283	4-18-2013	FTT Inc.	Large Floating Vertical Axis Wind Turbine
F078R	12948,148	4-21-2011	8952882	1-7-2014	FTT Inc.	High Temperature Turbine Stator Vane
F077R	12891,807	8-27-2011	8622735	12-10-2013	FTT Inc.	Turbine Blade With Offuser Cooling Channel
F078R	12857,912	8-22-2010	8488246	5-28-2013	FTT Inc.	Boas With Micro Serpentine Cooling
F088R	12858,884	12-13-2010	8622890	1-7-2014	FTT Inc.	Inter-Propeller Thrust Seal
F088R	12872,791	8-28-2010	8682295	10-22-2013	FTT Inc.	Three Phase Boreless Tip Seal Cooled Blade

F004R	43905,856	5/0/2013	8055580	11/19/2013	FTT Inc.	Turbine Vane With Trailing Edge Extension
F005R	43477,618	5/8/2012	8096663	12/3/2013	FTT Inc.	Base For A Turbine
F006R	13011,284	10/30/2008	8438684	5/14/2013	FTT Inc.	Base With Coated Strouhal Shaped Grooves
FTT-102G	11101,708	4/8/2005	7212889	5/12/2007	FTT Inc.	Passive Clearance Control
FTT-103R	11185,030	7/1/2008	7583182	7/12/2008	FTT Inc.	Composite Tip Shroud Ring
FTT-107R	11209,527	7/18/2005	7410342	8/12/2009	FTT Inc.	Airfoil Support
FTT-108R	61020,774	8/18/2005	7241107	7/18/2007	FTT Inc.	Gas Turbine Airfoil With Adjustable Cooling Air Flow
FTT-109R	61292,405	7/20/2005	7473475	1/8/2009	FTT Inc.	Blisk Weld Configuration For A Rotor Disc Assembly
FTT-110R	11185,154	7/21/2005	7800628	3/10/2009	FTT Inc.	Airfoil Having Porous Metal Filled Cavities
FTT-115R	11146,658	8/18/2005	7423417	9/8/2009	FTT Inc.	Airfoil With A Porous Fiber Metal Layer
FTT-112R	11208,671	8/18/2005	7415803	9/2/2008	FTT Inc.	Turbine Blade With Ceramic Tip
FTT-113R	11438,840	8/18/2005	7677048	3/18/2010	FTT Inc.	Turbine Last Stage Blade With Forced Vortex Groove Cooling Air
FTT-114R	11889,382	9/2/2005	7658936	2/4/2010	FTT Inc.	Optimized Blade Tip Clearance Process For A Hub Tolerant Design
FTT-115G	12838,756	12/12/2007	8079453	12/8/2011	FTT Inc.	Centrifugal Impeller Having Forward And Reverse Flow Paths
FTT-117R	61013,168	8/12/2006	7422413	8/8/2008	FTT Inc.	Shroud Tip Clearance Control Ring
FTT-118R	11255,128	8/23/2005	7445428	11/4/2008	FTT Inc.	Guide Vane Outer Shroud Bias Arrangement
FTT-119G	12943,935	2/22/2009	8015708	8/13/2011	FTT Inc.	Spar And Shell Blade With Segmented Shell
FTT-119G2P	12158,386	1/18/2009	7798214	7/28/2010	FTT Inc.	Tangential Shell For A Spar And Shell Turbine Airfoil
FTT-119R	11242,320	16/4/2005	7670116	3/2/2010	FTT Inc.	Turbine Vane With Spar And Shell Construction
FTT-121R	11140,118	8/27/2005	7232236	8/18/2007	FTT Inc.	Passive Bearing Clearance Control Using A Pre-Groove
FTT-123R	11437,531	10/19/2005	7387144	7/8/2008	FTT Inc.	Bearingless Floating Wind Turbine
FTT-123R	11214,503	11/18/2008	7491681	7/22/2008	FTT Inc.	Bearing Geometries Having A Crated Wire
FTT-125R	11254,268	11/23/2008	7428132	9/30/2008	FTT Inc.	Hydrostatic Air Bearing With A Porous Metal Ring
FTT-125R	11295,125	10/20/2005	7540709	8/2/2009	FTT Inc.	Box Rim Cavity
FTT-142R	11198,980	12/1/2006	7448844	11/11/2008	FTT Inc.	Blisk Having Partially Cut Blade Attachment
FTT-146G	12487,882	10/18/2007	8168407	8/12/2012	FTT Inc.	Small Gas Turbine Engine With Multiple Burn Zones
FTT-148G	13481,080	8/12/2009	8387991	11/13/2012	FTT Inc.	Small Gas Turbine Engine With Multiple Burn Zones
FTT-148R	11224,806	8/12/2005	7688343	8/4/2008	FTT Inc.	Small Gas Turbine Engine With Multiple Burn Zones
FTT-147G	12487,803	8/18/2008	7887037	8/18/2011	FTT Inc.	Gas Turbine Engine With An Air Cooled Bearing
FTT-147D	12484,503	8/22/2010	7942608	5/17/2011	FTT Inc.	Gas Turbine Engine With An Air Cooled Bearing
FTT-147R	11210,617	8/3/2005	7592518	7/21/2009	FTT Inc.	Gas Turbine Engine With An Air Cooled Bearing
FTT-148D1P	12841,274	4/22/2008	8205408	8/28/2012	FTT Inc.	Dual Heat Exchanger-Power Cycle
FTT-148R	11655,708	1/18/2007	7778376	8/10/2010	FTT Inc.	Dual Heat Exchanger-Power Cycle
FTT-151R	11808,012	4/23/2006	7540713	6/2/2008	FTT Inc.	Threaded Rotor Assembly With Centrifugal Lock
FTT-153R	11828,455	8/27/2008	7888540	2/4/2010	FTT Inc.	Turbine Airfoil With An Air Cooled Tip Layer
FTT-154R	11814,814	8/12/2006	7948643	6/21/2008	FTT Inc.	Pressure Balanced Centrifugal Tip Seal
FTT-158R	11271,751	11/8/2005	7886822	3/30/2010	FTT Inc.	Rotary Cup Fuel Injector
FTT-163R	11254,267	8/22/2009	8141880	3/27/2012	FTT Inc.	Hybrid Gas Turbine And Internal Combustion Engine
FTT-168R	11883,522	5/24/2006	7574804	8/18/2009	FTT Inc.	Advanced Hot Section Materials And Coatings Test Rig
FTT-171R	11642,287	8/7/2007	7697946	8/10/2011	FTT Inc.	Small Gas Turbine Engine With Lubricated Bearings
FTT-172R	11288,983	8/14/2005	7464818	3/14/2009	FTT Inc.	Batch Fixed Heat Exchanger
FTT-173R	11848,124	12/30/2004	7380434	4/22/2009	FTT Inc.	Apparatus And Method To Measure Air Pressure Within A Turbine Airfoil
FTT-178G	11325,216	1/12/2006	7389188	6/24/2008	FTT Inc.	Vortex Coating Of Turbine Blades
FTT-180R	11896,378	11/16/2007	7841834	11/30/2010	FTT Inc.	Method And Leading Edge Preparation Tool For Repairing A Turbine Engine Blade
FTT-181R	11787,660	11/7/2007	7896688	3/22/2011	FTT Inc.	Rotor Thrust Balance Activated Tip Clearance Control System
FTT-187R	11408,925	7/14/2006	7448424	1/14/2008	FTT Inc.	Passive Hysteresis Bypass Flow Control For A Blade Seal Application
FTT-188R	11437,521	5/28/2006	7387838	8/17/2008	FTT Inc.	Process For Determining A Remaining Life For A Gas Turbine Airfoil
FTT-192R	11738,843	7/18/2006	7548896	7/6/2010	FTT Inc.	Hub To Shaft Connection
FTT-197G	12838,759	8/7/2007	7918947	4/8/2011	FTT Inc.	Turbine Airfoil With A Flow Blocking Insert
FTT-198R	11463,432	8/11/2006	7473073	1/8/2008	FTT Inc.	Turbine Blade With Cooled Tip Roll
FTT-198R	11472,248	1/27/2009	7481822	12/7/2008	FTT Inc.	Turbine Airfoil With A Serpentine Flow Path
FTT-201R	11944,478	8/11/2006	7811380	11/3/2008	FTT Inc.	Turbine Blade With Triple Pass Serpentine Flow Cooling Circuit
FTT-204R	11800,448	11/18/2005	7550788	5/12/2009	FTT Inc.	Turbine Blade With A Serpentine Flow And Impingement Cooling Circuit
FTT-210R	11483,431	8/26/2006	7546038	6/8/2006	FTT Inc.	Dual Spool Shell With Inboard Seal
FTT-213R	11483,430	8/26/2006	7448213	3/14/2009	FTT Inc.	Stepped Labyrinth Seal
FTT-214R	11803,540	8/1/2009	7927474	5/8/2009	FTT Inc.	Chordwise Mini-Serpentine Coating Concept (List Of 13)
FTT-215R	11800,447	8/18/2008	7825180	12/1/2009	FTT Inc.	Turbine Blade With Near-Flat Mach-Reflecting And Diffusion Cooling Circuit

FTT-216R	110301442	8/15/2009	7524478	7/7/2009	FTT Inc.	Turbine Airfoil With Multiple Near-Wall Compartment Cooling
FTT-217R	110485865	7/14/2009	7547180	6/16/2008	FTT Inc.	Turbine Airfoil Serpentine Flow Circuit With A Built-In Pressure Regulator
FTT-218R	114371357	8/15/2006	7451804	10/7/2008	FTT Inc.	High Temperature Ceramic For A Roller Bearing
FTT-220R	114371487	8/15/2006	7578855	8/28/2008	FTT Inc.	Composite Gas Turbine Fan Blade
FTT-221R	114631381	8/20/2008	7458776	12/2/2003	FTT Inc.	Turbine Airfoil With Staggered Cooling Flow
FTT-222R	114411474	8/20/2008	7642992	1/5/2010	FTT Inc.	Integrated Turbine And Generator
FTT-227R	110451359	8/14/2008	7587536	10/6/2006	FTT Inc.	Turbine Airfoil With Do-Coagled Platform
FTT-236R	110486347	10/10/2008	7482135	11/18/2008	FTT Inc.	Friction Damper For A Bearing
FTT-242R	110510142	10/10/2008	7491030	2/17/2009	FTT Inc.	Magnetically Actuated Guide Vane
FTT-244R	110445880	10/10/2008	7572688	8/11/2008	FTT Inc.	Vane Ring With A Damper
FTT-246R	110301545	11/18/2009	7527475	5/5/2006	FTT Inc.	Turbine Blade With Near-Wall Cooling Passages
FTT-247R	110301545	11/18/2009	7544044	6/4/2006	FTT Inc.	Turbine Airfoil With Pedestal And Turbulence Cooling
FTT-248R	110301579	11/18/2009	7520725	4/21/2009	FTT Inc.	Near Wall Airfoil Leading Edge Multi-Holes Cooling
FTT-250R	110301575	7/21/2008	7888946	1/11/2011	FTT Inc.	Turbine Airfoil With Near-Wall Impingement And Vortex Cooling
FTT-252R	110301575	9/1/2008	7885347	4/13/2010	FTT Inc.	Turbine Blade Platform With Near-Wall Cooling
FTT-253R	110510141	8/25/2009	7494519	2/24/2009	FTT Inc.	Turbine Blade With Tip Configuration
FTT-254R	110301608	8/21/2009	7497658	3/3/2009	FTT Inc.	Turbine Airfoil With A Multi-Impingement Inlet Stiffle
FTT-255R	110301608	8/21/2009	7507431	5/28/2008	FTT Inc.	Turbine Blade With Mini-Serpentine Tip-Cooling
FTT-258R	121181720	6/18/2007	7650835	4/28/2011	FTT Inc.	Gas Or Steam Turbine With Inlet Air Cooling
FTT-262DRV	120491219	10/21/2008	8208935	7/3/2012	FTT Inc.	Process For Redesigning A Distressed Component Under A Thermal And Structural Loading
FTT-263DRV3	120479205	10/21/2010	8895181	8/13/2013	FTT Inc.	Process For Redesigning A Distressed Component Under A Thermal And Structural Loading
FTT-264R	110201016	8/20/2006	7917152	4/14/2008	FTT Inc.	Squeeze Film Damper With Variable Support Stiffness
FTT-265R	110211745	11/19/2007	7877580	12/28/2010	FTT Inc.	Turbine Vane With End-Wall Leading Edge Cooling
FTT-268R	110211747	8/15/2009	7540712	9/2/2009	FTT Inc.	Turbine Blade With Trailing Edge Cooling Channel
FTT-269R	110271308	8/25/2006	7563072	7/21/2008	FTT Inc.	Turbine Airfoil With Near-Wall Spiral Flow Cooling Circuit
FTT-272R	110271307	8/25/2006	7600894	4/6/2010	FTT Inc.	Generic Core Assembly For Serpentine Flow Circuit In A Turbine Blade
FTT-273R	110281859	8/27/2008	7587936	10/8/2009	FTT Inc.	Turbine Blade With Vortex Cooled End Tip Rail
FTT-274R	110451036	10/16/2008	7587540	10/9/2006	FTT Inc.	Turbine Blade Showhead Film Cooling Hole Arrangement
FTT-282R	110451856	10/16/2008	7582678	7/21/2008	FTT Inc.	Turbine Blade With A Film Cooling Slot
FTT-283R	110301275	12/8/2009	7748208	7/8/2010	FTT Inc.	Small Single Line Gas Turbine Engine With Oil-Less Bearing Arrangement
FTT-283R	110301452	11/16/2008	7594887	8/4/2009	FTT Inc.	A Near Wall Spiral Flow Serpentine Cooling Arrangement
FTT-284R	110301446	11/16/2008	7937730	12/29/2009	FTT Inc.	Turbine For Turbine Airfoil Cooling Passage
FTT-288R	110301587	12/1/2008	7648132	1/12/2010	FTT Inc.	Turbine Rotor Blade With A Nested Parallel Serpentine Flow Cooling Circuit
FTT-301R	110301857	11/28/2006	7764044	4/27/2010	FTT Inc.	Turbine Blade With Attachment Shear Inserts
FTT-307R	110729110	3/28/2007	7713029	5/11/2010	FTT Inc.	Blade With Spur And Bush Assembly
FTT-309C	120361822	5/2/2007	7871862	7/8/2011	FTT Inc.	Labyrinth Seal
FTT-327C	120441878	8/19/2003	8047730	11/1/2011	FTT Inc.	Near Wall Compartment Cooled Turbine Blade
FTT-328R	110421255	4/9/2007	7596555	3/24/2008	FTT Inc.	Process And Apparatus For Treating A Material Under A High Temperature And Pressure Environment
FTT-329R	110301380	1/28/2007	7740448	8/22/2010	FTT Inc.	Process For Adjusting A Flow Capacity Of An Airfoil
FTT-331R	110541129	11/17/2007	7760414	8/24/2010	FTT Inc.	Turbine Blade With Multiple Metering Trailing Edge Cooling Holes
FTT-334C	120557489	6/11/2010	8277195	10/2/2012	FTT Inc.	Thin Walled Turbine Blade And Process For Making The Blade
FTT-334CNP	130822551	11/22/2010	8808296	8/18/2013	FTT Inc.	Thin Walled Turbine Blade And Process For Making The Blade
FTT-336R	110715045	3/9/2007	7766617	8/3/2010	FTT Inc.	Transpiration Cooled Turbine Airfoil
FTT-338R	110715048	3/9/2007	7713628	5/11/2010	FTT Inc.	Turbine Blade With Tip Cooling
FTT-340R	110726335	3/21/2007	7794638	4/27/2010	FTT Inc.	Case With Multiple Transpired Film Cooling Slots
FTT-342R	110301378	1/28/2007	7698982	12/25/2010	FTT Inc.	Segmented Ring For Industrial Gas Turbine
FTT-342R	110715044	3/9/2007	7762418	8/24/2010	FTT Inc.	Regenerative Leading Edge Inlet For An Air
FTT-343R	110715044	4/9/2007	7688871	3/30/2010	FTT Inc.	Bladed Rotor With Shear Pin Attachment
FTT-353R	110715042	3/9/2007	7752791	7/27/2010	FTT Inc.	Composite Airfoil And Platform Arrangement
FTT-359R	110732192	4/3/2007	7722327	5/25/2010	FTT Inc.	Multiple Vortex Cooling Mechanism For Thin Airfoil
FTT-362R	110726168	3/28/2007	7821718	11/24/2009	FTT Inc.	Turbine Vane With Leading Edge Film Region Impingement Cooling
FTT-365C	130980828	2/18/2011	8290851	8/28/2012	FTT Inc.	Transition Duct With Integral Guide Vanes
FTT-368R	110301322	5/8/2007	7762775	7/27/2010	FTT Inc.	Turbine Airfoil With Cooled Thin Trailing Edge
FTT-367R	110801611	12/18/2008	7693049	7/28/2011	FTT Inc.	Turbine Blade With Impingement Cooling
FTT-383C	130291389	1/24/2012	8257041	6/4/2012	FTT Inc.	Turbine Blade With Triple Spiral Serpentine Flow Circuits
FTT-385R	110821134	6/21/2007	7788916	8/3/2010	FTT Inc.	Turbine Vane Endwall With Cascading Film Cooling Diffusion Slots
FTT-370R	110809324	8/11/2007	7785071	8/31/2010	FTT Inc.	Turbine Airfoil With Spiral Trailing Edge Cooling Passages

FTT-375R	110801362	10/1/2008	8070441	12/6/2011	FTT Inc.	Turbine Airfoil With Trailing Edge Cooling Channels
FTT-376R	110801327	8/31/2007	7796608	9/7/2010	FTT Inc.	Turbine Blade With Showerhead Film Cooling Holes
FTT-376R	110801335	8/21/2007	7788778	8/21/2010	FTT Inc.	Turbine Blade With Showerhead Film Cooling
FTT-376R	110801326	8/25/2006	7651442	4/28/2011	FTT Inc.	Rotor Blade Assembly With On-Coupled Composite Platform
FTT-376R	110801323	5/31/2007	7670113	5/23/2010	FTT Inc.	Turbine Airfoil With Serpentine Trailing Edge Cooling Circuit
FTT-377R	110789842	12/21/2007	7672113	7/5/2011	FTT Inc.	Integral Turbine Blade And Platform
FTT-383R	120407856	8/30/2010	8288586	8/26/2012	FTT Inc.	Turbine Hybrid Metallic And Plastic Heat Case
FTT-383R	110801715	1/9/1/2007	7717675	5/18/2010	FTT Inc.	Turbine Airfoil With A Near Wall Slot Serpentine Cooling Circuit
FTT-386R	110821137	8/21/2007	7775783	6/17/2010	FTT Inc.	Centrifugal Pump With Rotor Thrust Balancing Seal
FTT-388R	120401358	8/15/2009	7941800	6/18/2011	FTT Inc.	Process For The Design Of An Airfoil
FTT-388R	110801731	8/7/2007	7788809	8/12/2010	FTT Inc.	Turbine Vane Endwall With Flush Wall Heat Shield
FTT-388R	110801884	12/26/2008	7674804	1/25/2011	FTT Inc.	Turbine Blade With Detached Platform
FTT-389R	110801740	9/7/2007	7784946	4/27/2010	FTT Inc.	Turbine Blade With Serpentine Blade Cooling Circuit
FTT-389R	110827076	9/21/2007	7888890	10/5/2010	FTT Inc.	Turbine Blade With Trailing Edge Bleed Slot Arrangement
FTT-401R	110827051	12/21/2007	7883745	6/21/2011	FTT Inc.	Composite Turbine Blade
FTT-402R	110875871	8/21/2007	7895233	2/23/2010	FTT Inc.	Low Speed Shaft For Small Twin Spool Gas Turbine Engine
FTT-408R	120184802	4/18/2009	8011884	9/8/2011	FTT Inc.	Fan Blade Assembly For A Gas Turbine Engine
FTT-410R	120184728	8/11/2008	7740441	8/22/2010	FTT Inc.	Small Gas Turbine Engine With Unibond Exhaust
FTT-414R	120184885	8/11/2008	7748892	7/6/2010	FTT Inc.	Stator Tube For A Gas Turbine Engine
FTT-420R	110801031	10/18/2007	7788972	8/31/2010	FTT Inc.	Large Chord Turbine Vane With Serpentine Film Cooling Circuit
FTT-420R	110801030	11/18/2007	8047797	11/1/2011	FTT Inc.	Turbine Blade With Trailing Edge Free Slot
FTT-420R	110801037	7/27/2010	8011888	8/8/2011	FTT Inc.	Turbine Blade With Trailing Edge Tip Corner Cooling
FTT-424R	110801038	9/25/2009	8197210	6/12/2012	FTT Inc.	Turbine Vane With Leading Edge Inlet
FTT-425R	110801035	12/2/2009	7876781	2/1/2011	FTT Inc.	Turbine Blade With A Showerhead Film Cooling Hole Arrangement
FTT-443R	110801980	3/18/2009	7951437	4/28/2011	FTT Inc.	Turbine Case With Inlet And Outlet Vanes
FTT-443R	110801987	10/4/2008	7888903	6/7/2011	FTT Inc.	Turbine Blade Serpentine Cooling Concept
FTT-444R	110875872	10/18/2007	8047798	11/1/2011	FTT Inc.	Turbine Airfoil With Near Wall Serpentine Cooling
FTT-444R	110875897	3/28/2008	8052350	11/8/2011	FTT Inc.	Turbine Airfoil With Showerhead Cooling
FTT-450R	110875866	8/22/2008	8061675	11/22/2011	FTT Inc.	Turbine Rotor With Edge Cooling
FTT-451R	110801039	1/18/2008	7988410	8/2/2011	FTT Inc.	Blade Tip Shroud With Circular Grooves (S Of 26)
FTT-454R	110801028	10/20/2008	8091988	11/22/2011	FTT Inc.	Process For Composite Ddt Analysis Of A Turbine Airfoil
FTT-458R	110875873	11/12/2010	8047789	1/11/2011	FTT Inc.	Turbine Airfoil
FTT-462R	110801036	12/21/2007	7642835	5/17/2011	FTT Inc.	Twin Spool Rotor Assembly For Small Gas Turbine Engine
FTT-462R	110875874	12/15/2008	7688812	7/18/2011	FTT Inc.	Low Pressure Turbine Rotor Disk
FTT-465R	110875876	3/28/2008	8049990	8/14/2012	FTT Inc.	Turbine Inlet-Stage Gap Cooling And Sealing Arrangement
FTT-466R	110801040	3/29/2008	7887583	6/29/2011	FTT Inc.	Turbine Blade With Tip Section Cooling Channel
FTT-467C	120445078	2/6/2013	8496638	6/11/2013	FTT Inc.	Turbine Vane With Endwall Cooling
FTT-468R	120004347	8/18/2009	7891040	8/8/2011	FTT Inc.	Centrifugally Loaded Segmented Rotor Seal For Spar And Shell Turbine Blades
FTT-470R	120022217	11/17/2011	8162817	4/30/2012	FTT Inc.	Turbine Blade With Star Arc Seal
FTT-471R	110801034	8/15/2006	7648896	12/7/2010	FTT Inc.	Turbine Blade With Serpentine Film Tip Seal Cooling
FTT-472R	110801033	12/18/2008	7688417	8/2/2011	FTT Inc.	Air Cooled Turbine Blade
FTT-474R	120015114	8/26/2008	8070434	12/8/2011	FTT Inc.	Turbine Airfoil With Trailing Edge
FTT-475R	120056142	8/17/2010	8218789	7/3/2012	FTT Inc.	Radially Inlet Seal For A Turbine Shroud
FTT-478R	110801047	6/7/2007	7875823	1/25/2011	FTT Inc.	Process For Assembling A Hollow High Speed Rotor Shaft
FTT-481R	120004361	8/21/2008	8043657	10/29/2011	FTT Inc.	Turbine Airfoil With Full Impingement Cooling Concept
FTT-482R	120004346	4/28/2008	8018692	8/13/2011	FTT Inc.	Turbine Blade Tip Turb Cooling
FTT-484R	120117223	8/11/2008	8011881	6/6/2011	FTT Inc.	Turbine Vane With Serpentine Cooling
FTT-482R	120004349	8/21/2007	7688893	5/31/2011	FTT Inc.	Turbine Blade With Dual Serpentine Cooling
FTT-489R	120004882	8/26/2010	7878276	7/12/2011	FTT Inc.	Turbine Blade With Multi-impingement Leading Edge Cooling
FTT-487R	120141826	1/22/2009	8087927	10/30/2012	FTT Inc.	Free Wall Multiple Impingement Serpentine Cooled Airfoil
FTT-488R	120118344	4/4/2006	8079611	12/20/2011	FTT Inc.	Turbine Blade With Multi-impingement Cooled Squarer Tip
FTT-488R	120118380	2/22/2008	8087381	1/3/2012	FTT Inc.	Turbine Blade With Tip Region Cooling
FTT-490R	110801038	5/15/2006	8098484	11/29/2011	FTT Inc.	Film Cooling Hole For A Turbine Airfoil
FTT-492R	120004793	4/30/2009	8087892	1/12/2012	FTT Inc.	Turbine Blade With Dual Serpentine Film Grooves
FTT-493R	120004513	1/23/2008	8018823	8/13/2011	FTT Inc.	Turbine Vane With Film Cavity Seal
FTT-494C3P	130509801	1/17/2011	8475112	7/2/2013	FTT Inc.	Multiple Stage Compressor With Last Stage Airfoil Cooling
FTT-494C3P2	130509820	8/29/2013	8794967	8/5/2014	FTT Inc.	Multiple Stage Compressor With Last Stage Airfoil Cooling

FTT-4640IP5	13946,908	1/22/2009	8721268	5/13/2014	FTT Inc.	Multiple Stage Compressor With Last Stage Aerial Cooling
FTT-4640IP4	14246,166		8858161	10/14/2014	FTT Inc.	Multiple Stage Compressor With Last Stage Aerial Cooling
FTT-464R	12284,340	10/18/2007	8240975	8/14/2012	FTT Inc.	Multiple Stage Compressor With Last Stage Aerial Cooling
FTT-465R	12694,880	11/28/2008	8540886	8/14/2012	FTT Inc.	Turbine Inlet Stage Seal Crest
FTT-465R1	12178,822	9/7/2007	7568856	1/11/2011	FTT Inc.	Turbine Blade With Spar And Shell
FTT-512R	12021,458	3/18/2008	8088936	8/20/2011	FTT Inc.	Swirl Combustor With Counter Swirl Fuel Injector
FTT-513R	02024,897	11/10/2011	8142188	3/27/2012	FTT Inc.	Turbine Blade With Spar And Shell
FTT-523R	02050,758	8/9/2007	7931441	4/26/2011	FTT Inc.	Inlet With Tip Structure And Turbine Blades
FTT-525R	12048,521	8/14/2009	8217684	6/27/2013	FTT Inc.	Turbine Blade With Multiple Impingement Cooled Passages
FTT-5280V2	13095,417	7/9/2008	8292501	10/23/2012	FTT Inc.	Turbopump With Cavitation Deflector
FTT-529C	12080,142	7/28/2008	8177489	5/15/2012	FTT Inc.	Axial Tip Turbine Driven Pump
FTT-529F	12080,780	3/18/2008	7528811	11/28/2010	FTT Inc.	Axial Tip Turbine Driven Pump
FTT-531CIP	12244,389	10/12/2008	7738131	8/18/2010	FTT Inc.	Turbine Blade With Carbon Nanotube Shell
FTT-537R	12118,548	8/13/2008	7831178	12/18/2008	FTT Inc.	Resonating Blade For Electric Power Generation
FTT-540CIP	12145,368	9/28/2011	8848274	9/30/2014	FTT Inc.	Sensor For Detecting Hydrocarbon In A Seal
FTT-540R	12131,568	10/16/2008	8057188	11/18/2011	FTT Inc.	Sensor For Detecting Hydrocarbon In A Seal
FTT-540R1	12147,390	12/14/2008	7971473	7/8/2011	FTT Inc.	Apparatus And Process For Testing Turbine Vane Airflow
FTT-562R	12138,511	11/18/2007	8048853	11/11/2011	FTT Inc.	Stackable Generator Arrangement
FTT-567R	12142,884	8/21/2008	8081803	11/22/2011	FTT Inc.	Eulerian Diffuser Ring With Stepped Trailing Edge
FTT-568R	12140,528	10/11/2008	8272845	8/25/2012	FTT Inc.	The With Fibrous Reinforced
FTT-597C	13073,887	11/10/2008	8285986	8/7/2012	FTT Inc.	Variable Inlet Guide Vane Assembly
FTT-597R	12058,901	10/19/2007	7922446	4/12/2011	FTT Inc.	Variable Inlet Guide Vane With Actuator
FTT-575R	12195,287	8/12/2008	7825454	4/12/2011	FTT Inc.	Process For Determining Remaining Life Of A Deformed Turbine Component
FTT-581R	12195,895	9/12/2009	8043058	10/29/2011	FTT Inc.	Turbine Blade With Curved Tip Cooling Holes
FTT-582C	13493,130	4/17/2011	8483689	8/25/2013	FTT Inc.	Turbine Blade Tip Feature With Trench Cooling Holes
FTT-582F	12038,523	4/16/2008	8113179	2/14/2012	FTT Inc.	Turbine Blade Tip Flat Cooling And Sealing Concept
FTT-584R	12208,538	8/7/2011	8048999	10/28/2011	FTT Inc.	Turbine Blade With Multi-Vortex Tip Cooling And Sealing
FTT-588R	12212,011	10/19/2007	8081209	11/22/2011	FTT Inc.	Process And Apparatus For Slong A Disruptor Ring
FTT-593R	12042,405	8/23/2009	8133014	3/13/2012	FTT Inc.	Triple Acting Radial Seal
FTT-593R1	12195,461	11/26/2007	8091687	11/22/2011	FTT Inc.	Turbine Blade With Tip Radial Cooling
FTT-594R	12112,898	11/18/2008	7997888	6/18/2011	FTT Inc.	Turbine Blade Tip Radial Cooling And Sealing
FTT-597R	12042,578	4/7/2009	8070442	12/8/2011	FTT Inc.	Turbine Airfoil With Near Wall Cooling
FTT-598R	12088,858	11/7/2008	8057198	11/15/2011	FTT Inc.	Shaped Film Cooling Hole For Turbine Airfoil
FTT-602R	12188,240	8/28/2008	7910395	10/12/2010	FTT Inc.	Process For Determining A Remaining Useful Life Of A Turbine Component
FTT-604R	12077,586	3/17/2011	8245519	8/21/2012	FTT Inc.	Laser Shaped Film Cooling Hole
FTT-616R	12058,705	2/23/2011	8034688	9/17/2013	FTT Inc.	Vane Segments Tip Clearance Control
FTT-616R1	12075,138	10/14/2009			FTT Inc.	Thermal Mechanical Fatigue Test Rig
FTT-625R	12087,167	12/16/2008	8097181	11/19/2011	FTT Inc.	Multi-Expansion Film Cooling Hole For Turbine Airfoil
FTT-628R	12082,518	11/7/2008	8097178	11/19/2011	FTT Inc.	Film Cooling Hole For Turbine Airfoil
FTT-638R	12078,324	2/12/2008	8082881	1/12/2012	FTT Inc.	Designed Stator Assembly
FTT-640R	12488,785	9/12/2008	8108159	2/7/2012	FTT Inc.	Instrumentation Installation Test For A Pressure Vessel Test Rig
FTT-642R	12038,410	7/28/2007	7988921	7/18/2011	FTT Inc.	Turbine Blade With Trailing Edge Cooling
FTT-643D	12177,847	8/9/2008	8022582	11/8/2011	FTT Inc.	Process For Cooling A Turbine Blade Trailing Edge
FTT-643R	12035,424	11/16/2007	7985680	7/26/2011	FTT Inc.	Turbine Blade With Trailing Edge Cooling
FTT-648R	12077,541	2/17/2011	8258202	9/4/2012	FTT Inc.	High Bypass Turbofan
FTT-672C	13094,218	1/30/2009	8162808	4/24/2012	FTT Inc.	Turbine Airfoil Formed As A Single Piece But With Multiple Materials
FTT-672R	12037,888	2/12/2008	8069483	11/26/2011	FTT Inc.	Turbine Airfoil With Non-Parallel Film Pass
H1081	10853,574	8/2/2003	6677832	4/12/2005	FTT Inc.	Passive Clearance Control
H109A	10781,575	3/2/2004	6681846	1/3/2008	FTT Inc.	Vortex Cooling Of Turbine Blades
H109B	10781,591	3/2/2004	6684521	2/7/2008	FTT Inc.	Leading Edge Diffusion Cooling Of Turbine Blade
N1168	10975,264	10/28/2004	7194752	6/12/2008	FTT Inc.	Graded Wire Gasket
N1169	11988,156	2/10/2005	7293414	11/13/2007	FTT Inc.	High Performance Method For Thrusting Of Closed Gas Turbine Cycles

Patent Title	Filed Date	Issued Date	Inventor	Publication No.
Turbine Stator Vane	5/19/2011	4/22/2014	G. Liang	US8770375
Industrial Turbine Blade with Platform Cooling	2/23/2011	2/4/2014	G. Liang	US8841377
Turbine Exhaust Cylinder and Strut Cooling	8/26/2011	2/4/2014	G. Liang	US8841382
Turbine Exhaust Cylinder Cooling with Heat Shield	11/18/2011	8/24/2014	G. Liang	US8758911
Turbine Stator Vane with Purge Air Channel	5/19/2011	1/14/2014	G. Liang	US8933204
Turbine Vane with Near Wall Multiple Impingement Cooling	9/27/2011	12/17/2013	G. Liang	US8939493
Three Flute Bonded Thin Wall Cooled Blade	12/20/2010	10/22/2013	G. Liang	US8822285
Turbine Blade with Platform Cooling	11/22/2010	8/20/2013	G. Liang	US8511805
Turbine Airfoil with Micro-Serpentine Cooling Passages	8/11/2009	5/5/2009	G. Liang	US7527474
Turbine Rotor Blade with Low Cooling Flow Trim Walled	3/13/2009	11/22/2011	J. Rynik	US8081805
Turbine Blade and Process for Making the Blade	9/19/2012	8/13/2013	J. Broetzmeier	US8505255
Turbine Blade with Multiple Impingement Cooling	10/21/2010	8/13/2013	G. Liang	US8938250
High Temperature Turbine Stator Vane	12/13/2010	1/7/2014	G. Liang	US8823882
Turbine Airfoil with Micro Cooling Channels	1/25/2010	11/27/2012	J. Downs	US8317475
Transition Duct Spiral Finned Cooling Passage	10/21/2009	11/19/2012	G. Liang	US8307654

**(ii) Trademark Registration/Applications:**

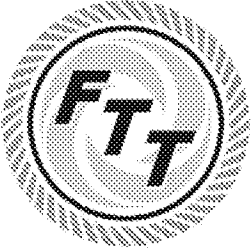
Mark	Country	Reg. No.	Appl. No.	Reg. Date	Filing Date	Owner
ARTIC	United States	4,663,234	86/283,525	December 30, 2014	May 16, 2014	Florida Turbine Technologies, Inc.
ARTIC	United States	N/A	87/279,495	N/A	December 23, 2016	Florida Turbine Technologies, Inc.
AFFORDABLE INNOVATIONS	United States	N/A	87/148,027	N/A	August 23, 2016	Florida Turbine Technologies, Inc.

(iv)

**Common Law Trademarks:**

1. FTT
2. FTT & Design:





3. SONIC INFRARED INSPECTION
4. SONIC IR
5. GREEN ARMOUR
6. BIG AIR
7. TURBOGT
8. FTT200
9. FTT650
10. BIG RHESTE
11. FTT50
12. ERAM
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