

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM429880

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
CAPSTONE TURBINE CORPORATION		06/02/2017	Corporation: DELAWARE
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	WESTERN ALLIANCE BANK, AN ARIZONA CORPORATION		
<b>Street Address:</b>	55 Almaden Boulevard		
<b>Internal Address:</b>	Suite 100		
<b>City:</b>	San Jose		
<b>State/Country:</b>	CALIFORNIA		
<b>Postal Code:</b>	95113		
<b>Entity Type:</b>	Corporation: ARIZONA		
<b>PROPERTY NUMBERS Total: 14</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	2940243	CAPSTONE	
<b>Registration Number:</b>	2993044	CAPSTONE	
<b>Registration Number:</b>	2487869	CAPSTONE	
<b>Registration Number:</b>	2201317	CAPSTONE	
<b>Registration Number:</b>	2248687	CAPSTONE	
<b>Registration Number:</b>	2058307	CAPSTONE	
<b>Serial Number:</b>	86722457	CAPSTONE ENERGY FINANCE	
<b>Registration Number:</b>	2956871	CAPSTONE MICROTURBINE	
<b>Serial Number:</b>	78970583	CAPSTONE SRS	
<b>Serial Number:</b>	85115207	KLEAN-PAK	
<b>Serial Number:</b>	76629704	MICROTURBINE	
<b>Registration Number:</b>	2144240		
<b>Serial Number:</b>	78947172	SAFE RETURN SYSTEM	
<b>Registration Number:</b>	2809609	TA 100	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	2138960400		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent</i>			

CH \$365.00 2940243

*using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** 213-891-5607  
**Email:** crachina@buchalter.com  
**Correspondent Name:** Corina Rachina  
**Address Line 1:** 1000 Wilshire Blvd.  
**Address Line 2:** 12th Floor  
**Address Line 4:** Los Angeles, CALIFORNIA 90017

<b>NAME OF SUBMITTER:</b>	Corina Rachina
<b>SIGNATURE:</b>	/s/ Corina Rachina
<b>DATE SIGNED:</b>	06/02/2017

**Total Attachments: 11**  
source=agreement#page1.tif  
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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT, dated as of June 2, 2017, (the "Agreement") between WESTERN ALLIANCE BANK, an Arizona corporation ("Lender") and CAPSTONE TURBINE CORPORATION, a Delaware corporation ("Grantor"), is made with reference to the Business Financing Agreement, dated as of the date hereof (as amended from time to time, the "Financing Agreement"), between Lender and Grantor. Terms defined in the Financing Agreement have the same meaning when used in this Agreement.

For good and valuable consideration, receipt of which is hereby acknowledged, Grantor hereby covenants and agrees as follows:

To secure the Obligations under the Financing Agreement, Grantor grants to Lender a security interest in all right, title, and interest of Grantor in any of the following, whether now existing or hereafter acquired or created in any and all of the following property (collectively, the "Intellectual Property Collateral"):

(a) copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held (collectively, the "Copyrights"), including the Copyrights described in Exhibit A, if any;

(b) trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Borrower connected with and symbolized by such trademarks (collectively, the "Trademarks"), including the Trademarks described in Exhibit B;

(c) patents, patent applications and like protections including without limitation improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same (collectively, the "Patents"), including the Patents described in Exhibit C;

(d) mask work or similar rights available for the protection of semiconductor chips or other products (collectively, the "Mask Works");

(e) trade secrets, and any and all intellectual property rights in computer software and computer software products;

(f) design rights;

(g) claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works, and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(i) amendments, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.


Notwithstanding anything to the contrary contained herein, in no event shall the Intellectual Property Collateral include any Excluded Property.

The rights and remedies of Lender with respect to the security interests granted hereunder are in addition to those set forth in the Financing Agreement, and those which are now or hereafter available to Lender as a matter of law or equity. Each right, power and remedy of Lender provided for herein or in the Financing Agreement, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein, and the exercise by Lender of any one or more of such rights, powers or remedies does not preclude the simultaneous or later exercise by Lender of any other rights, powers or remedies.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

**GRANTOR:**

CAPSTONE TURBINE CORPORATION, a  
Delaware corporation

By:   
Name: JAYME BROOKS  
Title: CFO

Address for Notices:

Attn: Jayme Brooks  
E-mail: jbrooks@capstoneturbine.com  
Attn: Clarice Hovsepian  
E-mail: chovsepian@capstoneturbine.com  
21211 Nordhoff Street  
Chatsworth, CA 91311

**LENDER:**

WESTERN ALLIANCE BANK, an Arizona  
corporation

By: \_\_\_\_\_  
Name: Justin Vogel  
Title: Vice President

Address for Notices:

Attn: Lee Shodiss  
55 Almaden Blvd. Ste. 100  
San Jose, CA 95113  
Tel: (408) 423-8500  
Fax: (408) 423-8520

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

**GRANTOR:**

CAPSTONE TURBINE CORPORATION, a  
Delaware corporation


By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

Address for Notices:

Attn: Jayme Brooks  
E-mail: jbrooks@capstoneturbine.com  
Attn: Clarice Hovsepian  
E-mail: chovsepian@capstoneturbine.com  
21211 Nordhoff Street  
Chatsworth, CA 91311

**LENDER:**

WESTERN ALLIANCE BANK, an Arizona  
corporation

By:   
Name: Justin Vogel  
Title: Vice President

Address for Notices:

Attn: Lee Shodiss  
55 Almaden Blvd. Ste. 100  
San Jose, CA 95113  
Tel: (408) 423-8500  
Fax: (408) 423-8520

EXHIBIT A  
COPYRIGHTS

Please Check if No Copyrights Exist

No	Status/ Lien	Owner	Copyright Title	Registration No.	Registration Date
1.	Registered	Capstone Turbine Corporation	CapPac control	TXu000829850	12/03/1997
2.	Registered	Capstone Turbine Corporation	Capstone remote	TXu000793986	04/14/1997
3.	Registered	Capstone Turbine Corporation	Capstone remote	TXu000853068	11/17/1997
4.	Registered	Capstone Turbine Corporation	Controller embedded software	TXu000793987	04/14/1997
5.	Registered	Capstone Turbine Corporation	Embedded control (BO controller)	TXu00832463	12/31/1997

EXHIBIT B  
TRADEMARKS

Please Check if No Trademarks Exist

Company Name	Trademark Name	Jurisdiction	Status	App. No.	Reg. No.
Capstone Turbine Corporation (15)					
Capstone Turbine Corporation	CAPSTONE	USA	Registered	78975666	2940243
Capstone Turbine Corporation	CAPSTONE	USA	Registered	78166520	2993044
Capstone Turbine Corporation	CAPSTONE	USA	Registered	75957665	2487869
Capstone Turbine Corporation	CAPSTONE	USA	Registered	76351980	2201317
Capstone Turbine Corporation	CAPSTONE	USA	Registered	75306958	2248687
Capstone Turbine Corporation	CAPSTONE	USA	Registered	74732798	2058307
Capstone Turbine Corporation	CAPSTONE ENERGY FINANCE	USA	Pending	86722457	
Capstone Turbine Corporation	CAPSTONE MICROTURBINE	USA	Registered	78166622	2956871
Capstone Turbine Corporation	CAPSTONE SRS	USA	Abandoned	78970583	
Capstone Turbine Corporation	KLEAN-PAK	USA	Abandoned	85115207	
Capstone Turbine Corporation	MicroTurbine	USA	Abandoned	76629704	
Capstone Turbine Corporation	Miscellaneous Design (stylized turbine blade design)	USA	Registered	75191384	2144240
Capstone Turbine Corporation	SAFE RETURN SYSTEM	USA	Abandoned	78947172	
Capstone Turbine Corporation	SRS	USA	Abandoned	78947412	
Capstone Turbine Corporation	TA 100	USA	Registered	78182638	2809609

EXHIBIT C

PATENTS

Please Check if No Patents Exist

IssueNo	Description	Client No	Docket No.	Country	AppSerNo	FilingDate	IssueDate	FirstInventor
	Expired							
	Expired							
	Expired							
	Expired							
	Expired							
	Expired							
	Expired							
5,850,732	Low Emissions Combustion System for a Gas Turbine Engine		N9877	U.S.	855,210	5/13/97	12/22/98	
5,894,720	Low Emissions Combination System For A Gas Turbine Engine Employing Flame Stabilization Within The Injector Tube		N9877	U.S.	09/168,299	10/7/98	4/20/99	
5,903,116	Turbogenerator/Motor Controller	210	N9877	U.S.	08/924,966	9/8/97	5/11/99	
5,915,841 See Re39190	Compliant Foil Fluid Film Radial Bearing		N9877	U.S.	09/002,690	1/5/98	6/29/99	
5,918,985 See Re38373	Compliant Foil Fluid Thrust Film Bearing With a Tilting Pad Underspring		N9877	U.S.	08/933,695	9/19/97	7/6/99	
5,964,663	Double Diaphragm Compound Shaft		N9877	U.S.	08/934,430	9/19/97	10/12/99	
5,966,926	Liquid Fuel Injector Purge System		N9877	U.S.	08/864,279	5/28/97	10/19/99	
6,016,658	Low Emissions Combustion System		N9877	U.S.	09/182,966	10/8/98	1/25/00	
6,020,713	Turbogenerator/Motor Pulse Width Modulated Controller		N9877	U.S.	09/002,890	1/5/98	2/1/00	
6,023,135	Turbogenerator/Motor Control System		N9877	U.S.	09/080,892	5/18/98	2/8/00	
6,031,294	Turbogenerator/Motor Controller With Ancillary Energy Storage/Discharge	133	N9877	U.S.	09/003,078	1/5/98	2/29/00	
6,037,687	Double Diaphragm Compound Shaft		N9877	U.S.	09/224,208	12/30/98	3/14/00	
6,049,195	Split Generator Winding Inverter		N9877	U.S.	09/356,065	7/19/99	4/11/00	
6,062,016	Gas Turbine Engine Fixed Speed Light-Off		N9877	U.S.	08/837,600	4/21/97	5/16/00	



IssueNo	Description	Client No	Docket No.	Country	AppSerNo	FilingDate	IssueDate	Firstinventor
6,082,112	Liquid Fuel Injector		N9877	U.S.	09/357,519	7/19/99	7/4/00	
6,093,975	Turbogenerator/Motor Control		N9877	U.S.	09/181,388	10/27/98	7/25/00	
6,094,799	Method of Making Double Diaphragm Compound Shaft		N9877	U.S.	09/224,206	12/30/98	8/1/00	
6,155,780	Ceramic Radial Flow Turbine Heat Shield		N9877	U.S.	09/374,916	8/13/99	12/5/00	
6,158,892	Fluid Film Thrust Bearing Having Integral Compliant Foils		N9877	U.S.	09/383,067	8/25/99	12/12/00	
6,169,334	Command and Control S&M for Multiple Turbogenerators		N9877	U.S.	09/181,389	10/27/98	1/2/01	
6,178,751	Liquid Fuel Injector System		N9877	U.S.	09/356,479	7/19/99	1/30/01	
6,190,048	Compliant Foil Fluid Film Radial Bearing		N9877	U.S.	09/195,354	11/18/98	2/20/01	
6,194,794	Integrated Reciprocating Engine Generator Set and Turbogenerator System and Method		N9877	U.S.	09/359,815	7/23/99	2/27/01	
6,213,234	Vehicle Powered by a Fuel Cell/Gas		N9877	U.S.	09/202,968		4/10/01	
6,239,520	Permanent Magnet Rotor Cooling S&M		N9877	U.S.	09/558,406	4/24/00	5/29/01	
6,265,786	Turbogenerator Power Control System		N9877	U.S.	09/181,213	10/27/98	7/24/01	
6,274,945	Combustion Control Method and System	610	N9877	U.S.	09/459,719	12/13/99	8/14/01	Mark G. Gilbreth
6,281,596	Automatic Turbogenerator Restarting M&S		N9877	U.S.	09/444,487	11/19/99	8/28/01	
6,281,601	Turbogenerator Power Control S&M		N9877	U.S.	09/360,043	7/23/99	8/28/01	
6,325,142	Turbogenerator Power Control System		N9877	U.S.	09/316,896	5/22/99	12/4/01	
6,361,271	Crossing Spiral Compressor/Pump		N9877	U.S.	09/444,014	11/19/99	3/28/02	Robert W. Bosley
6,437,468	Permanent Magnet Rotor Cooling System and Method	352	N9877	U.S.	09/829,778	4/10/01	8/20/02	
6,438,937	S&M for Modular Control of a Multi-Fuel Low Emissions Turbogenerator	452	N9877	U.S.	09/972,672	10/5/01	8/27/02	
6,453,658	Multi-Stage Multi-Plane Combustion System for a Gas Turbine Engine	121	N9877	U.S.	09/512,986	2/24/00	9/24/02	Jeffrey W. Willis
6,487,096	Power Controller	258	N9877	U.S.	09/207,817	12/8/98	11/26/02	
6,489,692	Method and Apparatus for Controlling Rotation of A Magnetic Rotor	126 (or 119?)	N9877	U.S.	09/459,426	12/13/99	12/3/02	Mark G. Gilbreth

IssueNo	Description	Client No	Docket No.	Country	AppSerNo	FilingDate	IssueDate	FirstInventor
6,495,929	Turbogenerator Power Control System	350	N9877	U.S.	09/829,035	4/9/01	12/17/02	
6,522,030	Multiple Power Generator Connection Method and System	101	N9877	U.S.	09/624,315	7/24/00	2/18/03	Wall et al.
6,539,720	Generated System Bottoming Cycle	439	N9877	U.S.	09/985,789	11/6/01	4/1/03	Gregory Rouse
6,552,440	Automatic Turbogenerator Restarting Method & System	380	N9877	U.S.	09/900,246	7/6/01	4/22/03	Mark Gilbreth
6,612,112	Transient Turbine Exhaust Temperature Control For A Turbogenerator	469	N9877	U.S.	10/012,770	11/5/01	9/2/03	Mark Gilbreth
6,629,064	Apparatus and Method for Distortion Compensation	118	N9877	U.S.	09/265,729	3/9/99	9/30/03	Simon Wall
6,639,328	Microturbine/Capacitor Power Distribution System	401	N9877	U.S.	10/033,826	12/19/01	10/28/03	Joel Wacknow
6,657,332	Turbogenerator Cooling System	433	N9877	U.S.	09/984,501	10/30/01	12/2/03	Francois Balas
6,657,348	Rotor Shield For Magnetic Rotary Machine	424	N9877	U.S.	09/985,439	11/2/01	12/2/03	Dinyu Qin
6,664,653	Command and Control System and Method for Controlling Operat of Multiple Turbogenerators Using a Selected Control Mode (A	91	N9877	U.S.	09/689,577	10/12/00	12/16/03	Edward Edelman
6,664,654	System and Method for Dual Mode Control of a Turbogenerator/Motor	496	N9877	U.S.	10/158,095	5/29/02	12/16/03	Simon R. Wall
6,675,583	Combustion Method	391	N9877	U.S.	09/969,491	11/2/01	1/13/04	Jeffrey Willis
6,683,389	Hybrid Electric Vehicle DC Power Generation System	431	N9877	U.S.	09/938,101	8/23/01	1/27/04	Everett R. Geis
6,684,642	Gas Turbine Engine Having a Multi-Stage Multi-Plane Combustion System	501	N9877	U.S.	10/171,684	6/17/02	2/3/04	Jeffrey W. Willis
6,702,463	Compliant Foil Thrust Bearing	093	N9955	U.S.	09/714,349	11/15/00	3/9/04	
6,709,243	Rotary Machine With Reduced Axial Thrust Loads	99	N9877	U.S.	09/696,316	10/25/00	3/23/04	Rubin Tan
6,713,892	Automatic Turbogenerator Restarting Method and System	381	N9877	U.S.	09/900,635	7/6/01	3/30/04	Mark G. Gilbreth
6,720,685	Turbogenerator Cooling System (Div Of 09/984,501)	606	N9877	U.S.	10/339,247	1/9/03	4/13/04	Francois Balas
6,732,531	Combustion System for a Gas Turbine Engine With Variable Airflow Pressure Actuated Premix Injector	444		U.S.	10/101,032	3/18/02	5/11/04	Dickey
6,747,372	Distributed Control Method for Multiple Connected Generators	465		U.S.	10/007,219	11/2/01	6/8/04	Gilbreth, et al
6,748,742.	Power Offsetting Compressor System	470	N9877	U.S.	10/008,047	11/7/01	6/15/04	Rouse
6,751,941	Foil Bearing Rotary Flow Compressor	489		U.S.	10/080,179	2/19/02	6/22/04	Edelma

IssueNo	Description	Client No	Docket No.	Country	AppSerNo	FilingDate	IssueDate	FirstInventor
	With Control Valve							n
6,784,565	Turbogenerator With Electrical Brake	392		U.S.	10/077,121	2/15/02	8/31/04	Wall
6,787,933	Power Generation System Having Transient Ride-Through/Load-Leveling Capabilities	402		U.S.	10/043,694	1/10/2002	9/7/2004	Khalizadeh
6,804,946	Combustion System With Shutdown Fuel Purge	603		U.S.	10/720,145	11/25/03	10/19/04	Willis
6,812,586	Distributed Power System	403		U.S.	10/066,349	1/30/02	11/2/04	Wacknov
6,812,587	Continuous Power Supply With Back-Up Generation	505		U.S.	10/300,936	11/21/02	11/2/04	Gilbreth
6,815,932	Detection of Islanded Behavior and Anti-Islanding Protection of a Generator in Grid-Connected Mode	268		U.S.	09/975,148	10/12/01	11/9/04	Wall
6,864,595	Detection of Islanded Behavior and Anti-Islanding Protection of a Generator in Grid-Connected Mode	602		U.S.	10/812,979	3/31/04	3/8/05	Wall
6,870,279	Method And System For Control Of Turbogenerator Power And Temperature	483		U.S.	10/037,916	1/2/02	3/22/05	Gilbreth
6,951,110	Annular Recuperator Design	395		U.S.	09/966,514	9/27/01	10/4/05	Kang
6,958,550	Method and System For Control of Turbogenerator Power and Temperature	623		U.S.	10/887,297	7/9/04	10/25/05	Gilbreth
6,960,840	Integrated Turbine Power Generation System With Catalytic Reactor	602		U.S.	10/706,070	11/13/03	11/1/05	Willis
7,065,873	Recuperator Assembly and Procedures	625		U.S.	10/917,118	8/12/04	6/27/06	Kang
7,112,036	Rotor and Bearing System For A Turbomachine	621		U.S.	10/862,136	6/4/04	9/26/06	Lubell
7,147,050	Recuperator Construction For a Gas Turbine Engine	624		U.S.	10/917,107	8/12/04	12/12/06	Kang
7,415,764	Recuperator Assembly And Procedures	632		U.S.	11/336,718	1/20/06	8/26/08	Kang
7,614,792	Compliant Foil Fluid Film Radial Bearing Or Seal	635		U.S.	11/740,798	4/26/2007	11/10/09	Wade
RE38,373	Compliant Foil Fluid Thrust Film Bearing With a Tilting Pad Underspring (Reissue of 5,918,985)	374	N9877	U.S.	09/900,775	7/6/01	12/30/03	Robert Bosley
RE39,190	Compliant Foil Fluid Film Radial Bearing (Reissue of 5,915,841.)			U.S.	09/895,568		7/18/2006	Weissert
RE40,713	Turbogenerator/Motor Controller (Reissue of 5903116)	357		U.S.	09/853,852	5/11/01	5/19/09	
9,366,432	Multistaged Lean Prevaporizing Premixing Fuel Injector			U.S.	13/473,814	5/17/2012	6/14/2016	Mitchell

PATENT #	TITLE	DATE FILED	APPLICATION #	Application Country/	Publication No.	DATE ISSUED	Status	
6314717	An Electricity Generating System Having an Annular Combustor	1999-08-18	09/319,478	United States	?	11/13/01	Issued	
6845621	Annular Combustor For Use with an Energy System	2001-05-01	10/275,049	United States	?	01/25/05	Issued	
6805928	Electrical System for Turbine/Alternator on Common Shaft	2001-04-23	09/846,572	United States	US2002/0070716	08/12/03	Issued	
6969510	Electrical System for Turbine/Alternator on Common Shaft	2003-05-28	10/446,386	United States	US2003/0199339	01/24/06	Issued	
6966173	Heat Transfer Apparatus	2002-11-06	10/288,791	United States	US2004/0063712	11/22/05	Issued	
6909199	Method and Apparatus for Compensating Output Voltages Fluctuations of Turbine/Alternator on Common Shaft	2003-10-03	10/678,506	United States	US2004/0060211	06/21/05	Issued	
6998728	Method and Apparatus for Controlling Output Current of Turbine/Alternator on Common Shaft	2003-10-03	10/678,366	United States	US2004/0066178	02/14/06	Issued	
6956301	Method and Apparatus for Controlling Output Voltages and Frequencies of Turbine/Alternator on Common Shaft	2003-10-03	10/678,424	United States	US2005/0073152	10/06/05	Issued	
6891282	Method and Apparatus for Monitoring Turbine Parameters of Turbine Alternator on Common Shaft	2003-10-03	10/678,486	United States	US2004/0066177	05/10/05	Issued	
6911742	Method and Apparatus for Turbine/Alternator on Common Shaft During Start-up	2003-10-03	10/678,263	United States	US2004/0066175	06/28/05	Issued	
6766647	Method for ignition and start up of a Turbogenerator	2002-07-25	10/205,002	United States	20030056622	07/27/04	Issued	
6845558	Method of Fabricating Vanes	2003-08-27	10/660,263	United States	US2004/0023968	01/25/05	Issued	
6745574	Microturbine direct fired absorption chiller	2002-11-27	10/306,259	United States	20040096965	06/06/04	Issued	
6877323	Microturbine exhaust heat augmentation system	2002-11-27	10/306,260	United States	US2004/0066966	04/12/05	Issued	
6834226	Multiple control loop acceleration of turboalternator after reaching self sustain speed previous to reaching synchronous speed	2003-09-12	10/662,141	United States	US2004/0122581	12/21/04	Issued	
6813999	Multiple control loop acceleration of turboalternator previous to self sustain speed	2003-09-12	10/662,130	United States	US2004/0210378	11/16/04	Issued	
6836720	Offload control of turboalternator with rich burn quick quench lean burn combustor to prevent blowout of combustor	2003-09-12	10/662,060	United States	US2004/0126053	12/28/04	Issued	
7053590	Power Generating system including a high frequency alternator, a rectifier module, and an auxiliary power supply	2004-08-24	10/924,407	United States	US2006/0043990	05/30/06	Issued	

PATENT #	TITLE	DATE FILED	APPLICATION #	Application Country/	Publication No.	DATE ISSUED	Status
6438936	Recuperator for use with turbine/turbo-alternator	2003-05-16	09/571,195	United States	?	08/27/02	Issued
6837413	Recuperator for use with turbine/turbo-alternator	2001-05-22	09/934,640	United States	US2001/0052231	01/04/05	Issued
6832470	Recuperator Configuration	2002-12-23	10/328,516	United States	US2004/0118101	12/21/04	Issued
6644916	Vane and method of construction thereof	2002-05-10	10/165,876	United States	?	11/11/03	Issued
8033093	Gas Turbine Apparatus					10/11/11	Issued - asgn. Pending
6728141	Microturbine With Auxiliary Air Tubes For NOx Emission Reduction	2002-07-03	10/190,265	United States		05/04/04	Issued
	Total patents: 24						

## PENDING U.S. PATENT APPLICATIONS

File No	Description	AppSerNo	FilingDate	FirstInventor	Status
001618DIV1	Multistaged Lean Prevaporizing Premixing Fuel Injector	15/158,654	5/19/2016	Mark G. Mitchell	Pending, newly filed divisional app.
010515	Multiple-Fuel Capable, Premixed, Low Emission Injector For High Flame Speed Fuel Combustion	14/449,650	8/1/2014		Pending, awaiting first office action