PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Dhinagaran Ramachandran	06/15/2010
Gopal Samy Muthiah	06/15/2010
Jyothishkumar Venkataramanan	06/15/2010
Balamurugan Srinivasan	06/15/2010
Jong Liu	06/15/2010
Luis Tapia	06/15/2010
Daniel Cregg Crites	06/15/2010
Malak Fouad Malak	06/15/2010

RECEIVING PARTY DATA

Name:	HONEYWELL INTERNATIONAL INC.	
Street Address:	101 Columbia Road	
Internal Address:	P.O. Box 2245	
City:	Morristown	
State/Country:	NEW JERSEY	
Postal Code:	07962-2245	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12818018

CORRESPONDENCE DATA

Fax Number: (480)385-5061

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

973-455-2062 Phone: Email: ccantore@ifllaw.com

Correspondent Name: HONEYWELL/IFL Patent Services

Address Line 1: 101 Columbia Road Address Line 2: P.O.Box 2245

> **PATENT REEL: 024554 FRAME: 0616**

501208273

Address Line 4: Morristown, NE	EW JERSEY 07962-2245
ATTORNEY DOCKET NUMBER:	H0026197 (002.4503)
NAME OF SUBMITTER:	Chad C. Anderson
Total Attachments: 6 source=20100617_Assignment_H0026197# source=20100617_Assignment_H0026197# source=20100617_Assignment_H0026197# source=20100617_Assignment_H0026197# source=20100617_Assignment_H0026197# source=20100617_Assignment_H0026197#	tpage2.tif tpage3.tif tpage4.tif tpage4.tif tpage4.tif

PATENT REEL: 024554 FRAME: 0617 WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has invented new and useful improvements in:

"ASSIGNOR") has invented new and useful improvements in:

GAS TURBINE ENGINE COMPONENTS WITH COOLING HOLE TRENCHES
for which application for Letters Patent of the United States:

has been executed on even date herewith;
was executed on _____;
X was filed on __June _ 17, _ 2010 _ and assigned U.S. Application No. ____12/818, 018 __;

AND WHEREAS, the "Assigned Property" shall mean (i) the above-identified United States application for Letters Patent (the "Application"), (ii) the invention disclosed in the Application, (iii) any application for Letters Patent throughout the world directed to the foregoing or claiming priority to the Application, and (iv) any and all patents resulting from the foregoing.

AND WHEREAS, Honeywell International Inc., a Delaware corporation having a place of business at 101 Columbia Road, POB 2245, Morristown, N.J. 07962-2245, its successors and assigns (hereinafter individually and collectively referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title, and interest in and to said Assigned Property;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby irrevocably and unconditionally assign and transfer unto ASSIGNEE the entire right, title and interest in and to the Assigned Property, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE for the sole use and benefit of ASSIGNEE;

AND ASSIGNOR FURTHERMORE authorizes ASSIGNEE, or anyone it may properly designate, to insert on each page of this instrument (where indicated) the filing date and application number of said Application when known;

AND ASSIGNOR AGREES, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, but at no expense to ASSIGNOR, that ASSIGNOR or ASSIGNOR'S heirs, executors, or administrators will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of legal protection that ASSIGNEE desires to obtain or assert for the Assigned Property, including executing any and all papers desired by ASSIGNEE for the filing and granting of patent rights in the Assigned Property, the perfecting of title in ASSIGNEE, and in enforcing any rights in the Assigned Property.

This instrument is executed by, and shall be binding upon ASSIGNOR, and ASSIGNOR's heirs, executors and administrators, for the uses and purposes above set forth and referred to and shall inure to the benefit of ASSIGNEE or anyone it may properly designate.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect.

EXECUTED as of the date	(s) set forth below:		
R. DL-		Date:	15. June, 2010
Dhinagaran Ramachandrar	ı		
	<u>.</u>		
	·		
J.S. Provisional Application No.	filed		
- 1. I.			(Rev.05/14/2009)

ECUTED as of the date(s) set forth belo	ow;		
		Date:	****
Gopal Samy Muthiah	·		
V. Tysflishlunar		Date: 15th Jun	ie 201
Jyothishkumar Venkataramanan			
		Date:	
Balamurugan Srinivasan		Date .	
		Date:	
Jong Liu ·			
		Date:	
Luis Tapia	,		
		Date:	
Daniel Cregg Crites		v.	
		" Date:	
Malak Fouad Malak			
		,	
,			
	÷ ·.		
	•		
S. Provisional Application No.	filed		

U.S. Provisional Application No.

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has invented new and useful improvements in:

GAS TURBINE ENGINE COMPONENTS WITH COOLING HOLE TRENCHES

GAS TORDINE ENGINE COM ONLIVES WITH COOLING HOLE TRENCHES
for which application for Letters Patent of the United States:
has been executed on even date herewith;
was executed on;
was executed on; was filed on June 17, 2010 and assigned U.S. Application No $12/818,018$;
AND WHEREAS, the "Assigned Property" shall mean (i) the above-identified United States application for Letters Patent (the "Application"), (ii) the invention disclosed in the Application, (iii) any application for Letters Patent throughout the world directed to the foregoing or claiming priority to the Application, and (iv) any and all patents resulting from the foregoing.
AND WHEREAS, Honeywell International Inc., a Delaware corporation having a place of business at 101 Columbia Road, POB 2245, Morristown, N.J. 07962-2245, its successors and assigns (hereinafter individually and collectively referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title, and interest in and to said Assigned Property;
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby irrevocably and unconditionally assign and transfer unto ASSIGNEE the entire right, title and interest in and to the Assigned Property, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE for the sole use and benefit of ASSIGNEE;
AND ASSIGNOR FURTHERMORE authorizes ASSIGNEE, or anyone it may properly designate, to insert on each page of this instrument (where indicated) the filing date and application number of said Application when known;
AND ASSIGNOR AGREES, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, but at no expense to ASSIGNOR, that ASSIGNOR or ASSIGNOR'S heirs, executors, or administrators will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of legal protection that ASSIGNEE desires to obtain or assert for the Assigned Property, including executing any and all papers desired by ASSIGNEE for the filing and granting of patent rights in the Assigned Property, the perfecting of title in ASSIGNEE, and in enforcing any rights in the Assigned Property.
This instrument is executed by, and shall be binding upon ASSIGNOR, and ASSIGNOR's heirs, executors and administrators, for the uses and purposes above set forth and referred to and shall inure to the benefit of ASSIGNEE or anyone it may properly designate.
If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect.
EXECUTED as of the date(s) set forth below:
Date:
Dhinagaran Ramachandran

filed

PATENT REEL: 024554 FRAME: 0620

ECUTED as of the date(s) set forth below:			
Gopal Samy Muthiah		Date:	15 June 2010
Gopal Samy Muthiah			
		Date:	
Jyothishkumar Venkataramanan			
Johns		Date:	15 JUNE 2018
Balamurugan Srinivasan			
		Data	
Jong Liu		Date:	
		Date:	
Luis Tapia			
·	è	Date:	
Daniel Cregg Crites		•	
		Date:	
Malak Fouad Malak	,		

U.S. Provisional Application No. filed _____

U.S. Provisional Application No.

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has invented new and useful improvements in:

GAS TURBINE ENGINE COMPONENTS WITH COOLING HOLE TRENCHES for which application for Letters Patent of the United States: has been executed on even date herewith; _ was executed on X was filed on June 17, 2010 and assigned U.S. Application No. 12/818,018 AND WHEREAS, the "Assigned Property" shall mean (i) the above-identified United States application for Letters Patent (the "Application"), (ii) the invention disclosed in the Application, (iii) any application for Letters Patent throughout the world directed to the foregoing or claiming priority to the Application, and (iv) any and all patents resulting from the foregoing. AND WHEREAS, Honeywell International Inc., a Delaware corporation having a place of business at 101 Columbia Road, POB 2245, Morristown, N.J. 07962-2245, its successors and assigns (hereinafter individually and collectively referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title, and interest in and to said Assigned Property: NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby irrevocably and unconditionally assign and transfer unto ASSIGNEE the entire right, title and interest in and to the Assigned Property, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE for the sole use and benefit of ASSIGNEE: AND ASSIGNOR FURTHERMORE authorizes ASSIGNEE, or anyone it may properly designate, to insert on each page of this instrument (where indicated) the filing date and application number of said Application when known: AND ASSIGNOR AGREES, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, but at no expense to ASSIGNOR, that ASSIGNOR or ASSIGNOR'S heirs, executors, or administrators will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of legal protection that ASSIGNEE desires to obtain or assert for the Assigned Property, including executing any and all papers desired by ASSIGNEE for the filing and granting of patent rights in the Assigned Property, the perfecting of title in ASSIGNEE, and in enforcing any rights in the Assigned Property. This instrument is executed by, and shall be binding upon ASSIGNOR, and ASSIGNOR's heirs, executors and administrators, for the uses and purposes above set forth and referred to and shall inure to the benefit of ASSIGNEE or anyone it may properly designate. If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect. **EXECUTED** as of the date(s) set forth below: Date: Dhinagaran Ramachandran

filed

(Rev.05/14/2009)

PATENT REEL: 024554 FRAME: 0622

ECUTED as of the date(s) set forth below:	
Gopal Samy Muthiah	Date:
	Date:
Balamurugan Srinivasan	Date:
Jong Liu	Date:6/15/10
Luis Tapia	Date: <u>6/15/10</u>
Daniel Cregg Crites	Date:
Malak Fouad Malak	Date:6 15 2010