PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Robert L Bedard	08/07/2013
Christopher Naunheimer	08/07/2013
Gavin P Towler	08/07/2013
Laura E Leonard	08/07/2013
Rodolphe Dudebout	08/08/2013
Gregory O Woodcock	08/07/2013
Donald L Mittendorf	08/12/2013

RECEIVING PARTY DATA

Name:	UOP LLC	
Street Address:	25 EAST ALGONQUIN ROAD	
Internal Address:	PATENT DEPARTMENT	
City:	DES PLAINES	
State/Country:	ILLINOIS	
Postal Code:	60017	

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	61691317
Application Number:	13967334

CORRESPONDENCE DATA

Fax Number: 8473912387

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

Phone: 847-391-2040

Email: ip.docketclerk@Honeywell.com
Correspondent Name: Honeywell International Inc

Address Line 1: 101 Columbia Road P. O. Box 2245
Address Line 2: Mail Stop AB/2B Patent Services

PATENT

REEL: 031022 FRAME: 0631

6169131

CH \$80,00

502460654

Address Line 4: Morristown, NEW JERSEY 07962	
ATTORNEY DOCKET NUMBER:	H0037155-01-8269
NAME OF SUBMITTER:	Rose A Nagel
Signature:	/Rose A Nagel/
Date:	08/15/2013

Total Attachments: 14

source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page1.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page2.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page3.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page4.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page5.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page7.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page7.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page8.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page9.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page10.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page11.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page12.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page13.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page13.tif source=2013-08-15-USA-H0037155-01-Assignment-SIGNED#page13.tif

PATENT REEL: 031022 FRAME: 0632 **WHEREAS**, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has invented new and useful improvements in:

METHANE CONVERSION APPARATUS AND PROCESS USING A SUPERSONIC FLOW REACTOR

for which application for patent in the officed States.
has been executed on even date herewith;
was executed on;
was executed on; x was filed on August 14, 2013 and assigned U.S. Application No13/967, 334 ;
AND WHEREAS, the "Assigned Property" shall mean (i) the above-identified United States
application for patent (the "Application"), (ii) all inventions disclosed in the Application, (iii) any and all
applications for patent throughout the world directed to the subject matter of the Application, (iv) the right
of priority arising from the Application or from such other applications, under the Paris Convention for the
Protection of Industrial Property or under relevant laws, treaties, conventions or bilateral and multilateral
agreements, in any jurisdiction, (v) any and all patents throughout the world resulting from the Application
or such other application(s) for patents, and (vi) any and all claims against third parties in connection with
any of the rights assigned by this Agreement;

AND WHEREAS, UOP LLC, a Delaware Limited Liability Company having a place of business at 25 East Algonquin Road, Des Plaines, IL 60017-5017, its successors and assigns (hereinafter individually and collectively referred to as "ASSIGNEE"), is desirous of acquiring ASSIGNOR's entire right, title, and interest in and to and resulting from said Assigned Property and in general all property rights included therein;

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 ASSIGNOR's entire right, title and interest in and to and resulting from the Assigned Property, and hereby authorizes and requests the Commissioner of Patents to issue said patent to ASSIGNEE for the sole use and benefit of ASSIGNEE; ASSIGNEE hereby accepts such transfer and assignment;

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.

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U.S. Provisional Application No. 61/691317 filed 08/21/2012

Maryann Maas

Assistant Secretary - Patent

UOP LLC

EXECUTED as of the date(s) set forth below on behalf of the ASSIGNOR:

Nobert & Badano	Date: august 7,0013
Robert L. Bedard	
Christopher Naunheimer	Date:
Christopher Naumeimer	
	Date:
Gavin P. Towler	
	Date:
Laura E. Leonard	
	Date:
Rodolphe Dudebout	
	Date:
Gregory O. Woodcock	
	Date:
Donald L. Mittendorf	Date.

U.S. Provisional Application No. 61/691317 filed

08/21/2012

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METHANE CONVERSION APPARATUS AND PROCESS USING A SUPERSONIC FLOW REACTOR

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U.S. Provisional Application No. 61/691317 filed

08/21/2012

Maryann Maas

Assistant Secretary - Patent

UOP LLC

EXECUTED as of the date(s) set forth below on behalf of the ASSIGNOR:

	Dale.
Robert L. Bedard	
Christopher Naunheimer	Date: August 7, 2013
Christopher Waumienner	
	Date:
Gavin P. Towler	
	Date:
Laura E. Leonard	
	Date:
Rodolphe Dudebout	
	Date:
Gregory O. Woodcock	
Donald L. Mittendorf	Date:

Doto:

U.S. Provisional Application No. 61/691317 filed

08/21/2012

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applications for patent throughout the work	d directed to the subject matter	of the Application (iv) the righ

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U.S. Provisional Application No. 61/691317 filed 08/21/2012

Maryann Maas

Assistant Secretary - Patent

UOP LLC

EXECUTED as of the date(s) set forth below on behalf of the ASSIGNOR:

	Date:
Robert L. Bedard	
	Date:
Christopher Naunheimer	
Javin P. Tarl Gavin P. Towler	
Gavin P. Towler	
	Date:
Laura E. Leonard	
Rodolphe Dudebout	
•	Date:
Gregory O. Woodcock	
	Date:
Donald L. Mittendorf	

U.S. Provisional Application No. 61/691317 filed

08/21/2012

rights included therein;

for which application for patent in the United States:

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

METHANE CONVERSION APPARATUS AND PROCESS USING A SUPERSONIC FLOW REACTOR

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X was filed on August 14, 2013 and assigned U.S. Application No. 13/967, 334;
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of priority arising from the Application or from such other applications, under the Paris Convention for the

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U.S. Provisional Application No. 61/691317 filed

08/21/2012

Maryann Maas

Assistant Secretary - Patent

UOP LLC

EXECUTED as of the date(s) set forth below on behalf of	of the ASSIGNOR:	
	Date:	
Robert L. Bedard		
	Date:	
Christopher Naunheimer		
	Date:	
Gavin P. Towler		
Laura E. Leonard	Date: 8/7//3	
Laura E. Leonard	1 / /	
	Date:	
Rodolphe Dudebout		
	Date:	
Gregory O. Woodcock		*****
	Date:	

U.S. Provisional Application No. 61/691317 filed

Donald L. Mittendorf

08/21/2012

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			'Assigned Pr				, -		
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			hout the world					, .	

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U.S. Provisional Application No. 61/691317 filed 08/21/2012

Maryann Maas

Assistant Secretary - Patent

UOP LLC

EXECUTED as of the date(s) set forth below on behalf of the ASSIGNOR:

	Date:
Robert L. Bedard	
Christopher Naunheimer	Date:
Christopher Haumienner	
Gavin P. Towler	Date:
Laura E. Leonard	Date:
Laura E. Leonard A.A.	Date: Aug 8, 2013
Rodolphe Dudebout	
Gregory O. Woodcock	Date:
	Date:
Donald L. Mittendorf	

U.S. Provisional Application No. 61/691317 filed

08/21/2012

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X was f	iled on <u>AL</u>	igust 1:	4 2013	and as	signed	U.S. Ap	plicatio	n No.	13/96	7.334	;
	WHEREAS,	0	,						/		
	for patent										

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Maryann Maas

Assistant Secretary - Patent

UOP LLC

EXECUTED as of the date(s) set forth below on behalf of the ASSIGNOR:

	Date:
Robert L. Bedard	
Christopher Naunheimer	
Contract De Translation	Date:
Gavin P. Towler	
Laura E. Leonard	Date:
Rodolphe Dudebout	Date:
Gregory O. Woodlook	Date: 7 August 201
Gregory Opyrodayock	
Donald L. Mittendorf	Date:

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EXECUTED as of the date(s) set forth below on behalf of the ASSIGNOR:

Maryann Maas Assistant Secretary - Patent **UOP LLC**

Robert L. Bedard	Date:	
Christopher Naunheimer	Date:	
Gavin P. Towler	Date:	
Laura E. Leonard	Date:	
Rodolphe Dudebout	Date: _	
Gregory O. Woodcock	Date: _	
Dorold I. New J. S. T.	Date: _	8-12-13

U.S. Provisional Application No. 61/691317 filed

Donald L. Mittendorf

08/21/2012