#### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
Jeffrey L. Pieper	12/02/2011
Cynthia K. Zimmerman	12/03/2011
Stephen W. Sohn	12/02/2011
Steven P. Lankton	12/04/2011

#### **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: 1

Property Type	Number
Application Number:	13310954

#### **CORRESPONDENCE DATA**

Fax Number: (847)391-2387 Phone: 847-391-2040

Email: ROSE.NAGEL@UOP.COM

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

501743712

Correspondent Name: Honeywell International Inc

Address Line 1: 101 Columbia Road P. O. Box 2245
Address Line 2: Mail Stop AB/2B Patent Services
Address Line 4: Morristown, NEW JERSEY 07962

ATTORNEY DOCKET NUMBER:	5066.105087
-------------------------	-------------

NAME OF SUBMITTER: Arik B. Ranson PATENT

REEL: 027326 FRAME: 0561

33109 H \$40 00

Total Attachments: 8	
source=J75946#page1.tif	
source=J75946#page2.tif	
source=J75946#page3.tif	
source=J75946#page4.tif	
source=J75946#page5.tif	
source=J75946#page6.tif	
source=J75946#page7.tif	
source=J75946#page8.tif	

## PROCESS FOR SEPARATING AND/OR INTRODUCING A FLUSH MATERIAL IN AN ADSORPTION SEPARATION SYSTEM

for which application for patent in the United States:
X has been executed on even date herewith;
was executed on;
was filed on and assigned U.S. Application No;
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.  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.
This assignment shall be construed, governed, interpreted and applied in accordance with the laws of the State of Delaware, United States of America.
U.S. Provisional Application No. filed (Rev. 05/25/2011)
[/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

Monjour Moor

**EXECUTED** on behalf of ASSIGNEE and effective as of the latest date of the ASSIGNOR signature(s) below:

Maryann Maas Assistant Secretary – Intellectual Property (UOP) UOP LLC	
EXECUTED as of the date(s) set forth below on behalf of JEFFREYL PIEPER	the ASSIGNOR:  Date: December 2, 201
CYNTHIA K. ZIMMERMAN	Date:
STEPHEN W. SOHN	Date:
STEVEN P. LANKTON	Date:

U.S. Provisional Application No.	filed	
----------------------------------	-------	--

(Rev.05/25/2011)

### PROCESS FOR SEPARATING AND/OR INTRODUCING A FLUSH MATERIAL IN AN ADSORPTION SEPARATION SYSTEM

for which application for patent in the United States:
X has been executed on even date herewith;
was executed on;
was filed on and assigned U.S. Application No;
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.  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.
This assignment shall be construed, governed, interpreted and applied in accordance with the laws of the State of Delaware, United States of America.
U.S. Provisional Application No filed
(Rev.05/25/2011)

STEVEN P. LANKTON

U.S. Provisional Application No.		filed	
	**		(Rev.05/25/2011)

Date:

## PROCESS FOR SEPARATING AND/OR INTRODUCING A FLUSH MATERIAL IN AN ADSORPTION SEPARATION SYSTEM

for which application for patent in the United States:
X has been executed on even date herewith;
was executed on;
was filed on and assigned U.S. Application No;
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.  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.
This assignment shall be construed, governed, interpreted and applied in accordance with the laws of the State of Delaware, United States of America.
U.S. Provisional Application No. filed
(Rev.05/25/2011)

**EXECUTED o**n behalf of ASSIGNEE and effective as of the latest date of the ASSIGNOR signature(s) below:

Mayou Moor		
Maryann Maas Assistant Secretary – Intellectual Property (UOP) UOP LLC		
<b>EXECUTED</b> as of the date(s) set forth below on behalf of the ASSIG	SNOR:	
JEFFREY L. PIEPER	Date: _	
CYNTHIA K. ZIMMERMAN	Date: _	
_/STEPHEN W. SOHN/ STEPHEN W. SOHN STEPHEN W. SOHN	Date: _	December 2, 2011
STEVEN P LANKTON	Date:	

U.S. Provisional Application No.	filed	

(Rev.05/25/2011)

# PROCESS FOR SEPARATING AND/OR INTRODUCING A FLUSH MATERIAL IN AN ADSORPTION SEPARATION SYSTEM

for which application for patent in the United States:		
kas been executed on even date herewith;		
was executed on;		
was filed on and assigned	I U.S. Application No.	• •
AND WHEREAS, the "Assigned Property" shall rapplication for patent (the "Application"), (ii) all inventions applications for patent throughout the world directed to the of priority arising from the Application or from such other a Protection of Industrial Property or under relevant laws, tragreements, in any jurisdiction, (v) any and all patents throor such other application(s) for patents, and (vi) any and all any of the rights assigned by this Agreement;	s disclosed in the Application subject matter of the Applica pplications, under the Paris Ceaties, conventions or bilatera ughout the world resulting fro I claims against third parties in	, (iii) any and all tion, (iv) the right convention for the all and multilateral m the Application on connection with
AND WHEREAS, UOP LLC, a Delaware Limited Liabi East Algonquin Road, Des Piaines, IL 60017-5017, its st and collectively referred to as "ASSIGNEE"), is desirous of interest in and to and resulting from said Assigned Proper therein;	accessors and assigns (hereing acquiring ASSIGNOR's entities of the control of th	nafter individually re right, title, and
NOW, THEREFORE, for good and valuable consider hereby acknowledged, ASSIGNOR does hereby irrevocab ASSIGNEE ASSIGNOR's entire right, title and interest in a and hereby authorizes and requests the Commissioner of the sole use and benefit of ASSIGNEE; ASSIGNEE hereby	ly and unconditionally assign nd to and resulting from the A Patents to issue said patent in accepts such transfer and as	and transfer unto ssigned Property, to ASSIGNEE for signment;
AND ASSIGNOR FURTHERMORE authorizes ASSIGnsert on each page of this instrument (where indicated) Application when known;	iNEE, or anyone it may properties the filing date and application	erly designate, to n number of said
AND ASSIGNOR AGREES, FURTHERMORE, upon remuneration, but at no expense to ASSIGNOR, that ASSIGNISTRATORS will provide all reasonable assistance to obtain or assert any and all papers desired by ASSIGNEE for the filing Property, the perfecting of title in ASSIGNEE, and in enforce This instrument is executed by, and shall be binding executors and administrators, for the uses and purposes at the benefit of ASSIGNEE or anyone it may properly design	SIGNOR or ASSIGNOR'S he ain, maintain, and assert the factor the Assigned Property, in and granting of patent rights ting any rights in the Assigned grupon ASSIGNOR, and AS above set forth and referred to	irs, executors, or ullest measure of cluding executing in the Assigned Property.  SIGNOR's heirs,
If any provision of this assignment is held by any cour interpreted to accomplish the objectives of the original pro the remainder of this assignment shall remain in full force a	vision to the fullest extent all	orovision shall be owed by law and
This assignment shall be construed, governed, interprete the State of Delaware, United States of America.	eted and applied in accordanc	e with the laws of
U.S. Provisional Application No. filed		•
		(Rev.05/25/2011)

**RECORDED: 12/05/2011** 

**EXECUTED on** behalf of ASSIGNEE and effective as of the latest date of the ASSIGNOR signature(s) below:

Maryowi Moso		
Maryann Maas Assistant Secretary - Intellectual Property (UOP) UOP LLC		
<b>EXECUTED</b> as of the date(s) set forth below on behalf of the	ASSIGNOR:	
JEFFREY L. PIEPER	Date:	
CYNTHIA K. ZIMMERMAN	Date:	***************************************
STEPHEN W. SOHN	Date:	
	Date: 4 DEC 20	71 1

U.S. Provisional Application No.	filed	•	
			e management of
			/Rev 05/95/