505654277 09/04/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5701083

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRADLEY P RUSSELL	09/03/2019
GAUTAM PANDEY	09/04/2019
DAVID A WEGERER	09/03/2019
WIM ELSEVIERS	09/04/2019

RECEIVING PARTY DATA

Name:	UOP LLC
Street Address:	25 EAST ALGONQUIN ROAD
City:	DES PLAINES
State/Country:	ILLINOIS
Postal Code:	60017-5017

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16560378

CORRESPONDENCE DATA

Fax Number:

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: 872-810-2994

Email: mark.goldberg@pm-ip.com

Correspondent Name: HONEYWELL/PASCHALL MAAS PATENT SERVICES

Address Line 1: 115 TABOR ROAD

Address Line 2: P O BOX 377 MAIL STOP 4D3

Address Line 4: MORRIS PLAINS, NEW JERSEY 07950

ATTORNEY DOCKET NUMBER:	H209959-US
NAME OF SUBMITTER:	MARK GOLDBERG
SIGNATURE:	/Mark Goldberg/
DATE SIGNED:	09/04/2019

Total Attachments: 8

source=H209959-assignment-signed-all#page1.tif source=H209959-assignment-signed-all#page2.tif

PATENT 505654277 REEL: 050266 FRAME: 0163

PATENT REEL: 050266 FRAME: 0164 WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has invented new and useful improvements in:

MEMBRANE PERMEATE RECYCLE PROCESS FOR USE WITH PRESSURE SWING ADSORPTION PROCESSES

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x has been executed on	even date herewith;
was executed on	,
was filed on	and assigned U.S. Appl. No. ;
was filed on	and assigned U.S. Appl. No

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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.

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

Deputy Chief IP Counsel UOP LLC

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

Bradley P. Russell	Date: <u>Sep. 3, 201</u> 9
Gautam Pandey	Date:
David A. Wegerer	Date:
Wim Elseviers	Date:

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

MEMBRANE PERMEATE RECYCLE PROCESS FOR USE WITH PRESSURE SWING ADSORPTION PROCESSES

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x has been executed on e	ven date herewith;		
was executed on			
was filed on	and assigned	U.S. Appl. No.	
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for which application for natent in the United States:

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;

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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.

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(Rev.03/20/2012)

PATENT REEL: 050266 FRAME: 0167 Honeywell Docket No H209959-US

ASSIGNMENT

Page 2 of 2

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

Deputy Chief IP Counsel UOP LLC

Ashley E. Romano

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

Bradley P. Russell	Date:
Gautam Pandey	Date:
David A. Wegerer	Date:
Wim Elseviers	Date:

H209959-US

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

MEMBRANE PERMEATE RECYCLE PROCESS FOR USE WITH PRESSURE SWING ADSORPTION PROCESSES

for	which application	for patent in the United States:	
X	has been exe	uted on even date herewith;	
	was executed	on;	
	was filed on	and assigned U.S. Appl. No	
	was filed on	and assigned U.S. Appl. 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;

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(Rev.03/20/2012)

PATENT

REEL: 050266 FRAME: 0169

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

Deputy Chief IP Counsel UOP LLC

Askley E. Romano

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

Bradley P. Russell	Date:
Gautam Pandey	Date:
David A. Wegerer	Date:
Wim Elseviers Ocui El eveis	Date: <u>04 Ep<i>lésede</i>r</u> 2019

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

MEMBRANE PERMEATE RECYCLE PROCESS FOR USE WITH PRESSURE SWING ADSORPTION PROCESSES

for which application for p	atent in the United States:
x has been executed o	n even date herewith;
was executed on	<u> </u>
was filed on	and assigned U.S. Appl. No
was filed on	and assigned U.S. Apol No.

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Askly E. Konano

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

Deputy Chief IP Counsel
UOP LLC

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

Date:

Gautam Pandey

O A []

Date: 4/3/2019

(Rev.03/20/2012)

PATENT REEL: 050266 FRAME: 0172

RECORDED: 09/04/2019