# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5303208

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MICHAEL VAN DE COTTE	04/13/2018
IAN G HORN	12/21/2018

### **RECEIVING PARTY DATA**

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

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15935847

### CORRESPONDENCE DATA

Fax Number: (202)824-3001

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: (202) 824-3000

bwptopat@bannerwitcoff.com, dcoleman@bannerwitcoff.com Email:

BANNER & WITCOFF, LTD. **Correspondent Name:** 

Address Line 1: 1100 13TH ST. NW

Address Line 2: STE 1200

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	H0060169-8501
NAME OF SUBMITTER:	R. GREGORY ISRAELSEN
SIGNATURE:	/Greg Israelsen/
DATE SIGNED:	12/28/2018

#### **Total Attachments: 4**

source=Assignment\_lan Horn\_executed\_198#page1.tif source=Assignment\_lan Horn\_executed\_198#page2.tif source=Assignment Van de Cotte executed 198#page1.tif

**PATENT REEL: 047870 FRAME: 0919** 505256436

source=Assignment\_Van de Cotte\_executed\_198#page2.tif

PATENT REEL: 047870 FRAME: 0920 for which application for patent in the United States:

any of the rights assigned by this Agreement;

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

#### ROTATING EQUIPMENT IN A PETROCHEMICAL PLANT OR REFINERY

has t	is been executed on even date herewith;	
was	as executed on;	
X was i	as filed on March 26, 2018 and assigned U.S. Appl. No15/935,847;	
application application of priority Protection	D WHEREAS, the "Assigned Property" shall mean (i) the above-identified to tion for patent (the "Application"), (ii) all inventions disclosed in the Application, (iii) tions for patent throughout the world directed to the subject matter of the Application ity arising from the Application or from such other applications, under the Paris Conviction of Industrial Property or under relevant laws, treaties, conventions or bilateral are tents, in any jurisdiction, (v) any and all patents throughout the world resulting from the	<ul> <li>i) any and all</li> <li>i, (iv) the right</li> <li>rention for the</li> <li>nd multilateral</li> </ul>

AND WHEREAS, UOP LLC, a Delaware Limited Liability Company having a place of business at 25 East Algoriquin 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:

or such other application(s) for patents, and (vi) any and all claims against third parties in connection with

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. Application No. <u>15/935,847</u> filed <u>March 26, 2018</u>

(Rev.03/20/2012)

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

Maryann Maas

Assistant Secretary - Patent **UOP LLC** 

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

Michael Van de Cotte

15/935,847 U.S. Application No. \_\_\_ filed <u>March 26, 2018</u>

(Rev.03/20/2012)

for which application for patent in the United States:
has been executed on even date herewith:

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

# ROTATING EQUIPMENT IN A PETROCHEMICAL PLANT OR REFINERY

					,							
	was	execute	d on			s m³						
	was	filed on	March 26	<u>, 2018</u> and	assigned	U.S. Ap	pl. No	15/93	5,847			
	AND	WHER	EAS, the	"Assigned	Property'	' shall	mean (i	) the	above-	identified	United	Sta
app	licatio	on for pa	itent (the '	'Application	"), (ii) all i	nvention	is disclo	sed in	the App	olication,	(iii) any	and
app	licatio	ons for pa	atent throu	ighout the v	orld direct	led to th	e subjec	t matte	r of the	Application	on, (iv) tl	ne ri

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. Application No. 15/935,847 filed March 26, 2018

(Rev.03/20/2012)

<b>EXECUTED</b> on	behalf of	<b>ASSIGNEE</b>	and	effective	as c	of the	latest	date	of the	ASSIG	INOR
signature(s) below:											

Maryann Maas

Assistant Secretary - Patent

**UOP LLC** 

<b>EXECUTED</b> as of the date(s) set forth below on behalf of the ASS	SIGNOR:	
Michael Van de Cotte	Date:	4/13/18

lan G. Horn

U.S. Application No. 15/935,847 filed March 26, 2018

(Rev.03/20/2012)

Date: