505857305 01/10/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5904242

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BENJAMIN D. YUHAS	07/10/2018
MELISSA M GALEY	07/10/2018
MARK A MILLER	07/10/2018
JOHN P. S. MOWAT	07/10/2018
WHARTON SINKLER	07/10/2018
GREGORY J LEWIS	07/10/2018
LISA M KNIGHT	07/10/2018

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: 2

Property Type	Number
Application Number:	62538357
Application Number:	16036572

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: PASCHALL & MAAS LAW OFFICE

Address Line 1: 210 N. HICKORY AVE.

Address Line 4: ARLINGTON HEIGHTS, ILLINOIS 60004

ATTORNEY DOCKET NUMBER:	H0052475-US-2
NAME OF SUBMITTER:	MARK GOLDBERG
SIGNATURE:	/Mark Goldberg/

PATENT 505857305 REEL: 051474 FRAME: 0231

DATE SIGNED:	01/10/2020
Total Attachments: 8	
source=2018-07-10-USA-H0052475-As	signment-SIGNED#page1.tif
source=2018-07-10-USA-H0052475-As	signment-SIGNED#page2.tif
source=2018-07-10-USA-H0052475-As	signment-SIGNED#page3.tif
source=2018-07-10-USA-H0052475-As	signment-SIGNED#page4.tif
source=2018-07-10-USA-H0052475-As	signment-SIGNED#page5.tif
source=2018-07-10-USA-H0052475-As	signment-SIGNED#page6.tif
source=2018-07-10-USA-H0052475-As	signment-SIGNED#page7.tif
source=2018-07-10-USA-H0052475-As	signment-SIGNED#page8.tif

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

CRYSTALLINE METALLOPHOSPHATES, THEIR METHOD OF PREPARATION, AND USE

for which application for patent in the United States:
has been executed on even date herewith;
was executed on;
X was filed on <u>07/28/2017</u> and assigned U.S. Appl. No. <u>62/538,357</u> ; 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;
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 filling 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.
PCT Application No filed
(Rev 03/20/2012)

Maryann Maas

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

Assistant Secretary – Patent UOP LLC		
EXECUTED as of the date(s) set forth below on behalf of the date(s) set forth	the ASSIGNOR: Date: 7/10/18	
Melissa M. Galey	Date:	nennennennennen en en en en en en en en
Mark A. Miller	Date:	*************
John P. 8 Mowal	Date:// <u>0/</u>	
Wharton Sinkler	Date: <u>7//0/(8</u>	
Gregory J. Lewis	Date:	
Lisa M. Knight	Date: 7/10/18	

PCT Application No. ______ filed _____

(Rev.03/20/2012)

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

CRYSTALLINE METALLOPHOSPHATES, THEIR METHOD OF PREPARATION, AND USE

for which application for patent is	the United States:
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was filed on	and assigned U.S. Appl. No
application for patent (the "App applications for patent throughor of priority arising from the Applic Protection of Industrial Property agreements, in any jurisdiction, (or such other application(s) for p any of the rights assigned by this	
 East Algonquin Road, Des Plair and collectively referred to as *A 	, a Delaware Limited Liability Company having a place of business at 25 nes, IL 60017-5017, its successors and assigns (hereinafter individually ASSIGNEE"), is desirous of acquiring ASSIGNOR's entire right, title, and from said Assigned Property and in general all property rights included
hereby acknowledged, ASSIGNO ASSIGNEE ASSIGNOR's entire and hereby authorizes and require the sole use and benefit of ASSII	od and valuable consideration, the receipt and sufficiency of which are OR does hereby irrevocably and unconditionally assign and transfer unto right, title and interest in and to and resulting from the Assigned Property, eats the Commissioner of Patents to issue said patent to ASSIGNEE for GNEE; ASSIGNEE hereby accepts such transfer and assignment;
AND ASSIGNOR FURTHER	RMORE authorizes ASSIGNEE, or anyone it may properly designate, to rument (where indicated) the filing date and application number of said
remuneration, but at no expense administrators will provide all real legal protection that ASSIGNEE any and all papers desired by Property, the perfecting of title in	FURTHERMORE, upon request of ASSIGNEE, and without further to ASSIGNOR, that ASSIGNOR or ASSIGNOR'S heirs, executors, or isonable assistance to obtain, maintain, and assert the fullest measure of desires to obtain or assert for the Assigned Property, including executing ASSIGNEE for the filing and granting of patent rights in the Assigned ASSIGNEE, and in enforcing any rights in the Assigned Property.
executors and administrators, for the benefit of ASSIGNEE or anyone	by, and shall be binding upon ASSIGNOR, and ASSIGNOR's heirs, the uses and purposes above set forth and referred to and shall inure to one it may properly designate.
interpreted to accomplish the ob	nment is held by any court to be unenforceable, such provision shall be jectives of the original provision to the fullest extent allowed by law and shall remain in full force and effect.
This assignment shall be cor the State of Delaware, United Sta	istrued, governed, interpreted and applied in accordance with the laws of stes of America.
PCT Application No.	Sked
	(Rev.03/20/2012)

ASSIGNMENT

Page 2 of 2

Honeywell Docket No. H0052475-8320 H0052475-01-8320

Maryann Maas

UOP LLC

PCT Application No.

Assistant Secretary - Patent

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

EXECUTED as of the date(s) set forth below on behalf of the ASSIGNOR:			
Benjamin D. Yuhas	Date:		
Melissa M. Galey	Date: 3 10 19		
Mark A Miller	Date:		
John P. S. Mowat	Date:		
Wharton Sinkler	Date:		
Gregory J. Lewis	Date:		
Lisa M. Knight	Date:		

__ 58ed

(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:

CRYSTALLINE METALLOPHOSPHATES, THEIR METHOD OF PREPARATION, AND USE

was executed	on				
X was filed on _	07/28/2017	and assigned U.S	. Appl. No.	62/538,357	_i
was filed on _		and assigned U.S	. Appl. No.		
application for pate applications for pate of priority arising for Protection of Indus agreements, in any	ent (the "Applic ent throughout om the Applica trial Property o jurisdiction, (v cation(s) for pa	ation"), (ii) all inve the world directed tion or from such of r under relevant lan any and all patent tents, and (vi) any a	ntions discl to the subje ther applica ws, treaties is throughou	osed in the Ap ict matter of the tions, under the conventions o it the world resi	identified United States plication, (iii) any and all Application, (iv) the right Paris Convention for the bilateral and multilateral alting from the Application parties in connection with
East Algonquin Ro and collectively ref interest in and to a therein;	ad, Des Plaine erred to as "AS and resulting fr	s, IL 60017-5017, iSIGNEE"), is desir om said Assigned	its success rous of acqu Property ar	ors and assign uiring ASSIGNO ad in general a	a place of business at 25 is (hereinafter individually DR's entire right, title, and Il property rights included
hereby acknowledge ASSIGNEE ASSIGNET ASSIGNET ASSIGNET ASSIGNET ASSIGNED AS	ged, ASSIGNO NOR's entire ri izes and reque enefit of ASSIG	R does hereby irreght, title and interests the Commission NEE; ASSIGNEE h	vocably and st in and to a ner of Pater nereby acce	unconditionally and resulting fro its to issue said pts such transfe	
AND ASSIGN insert on each pag Application when k	ge of this instru	WORE authorizes / iment (where indic	ASSIGNEE, ated) the fil	or anyone it π ing date and a	nay properly designate, to pplication number of said
remuneration, but administrators will legal protection that any and all paper	at no expense provide all reas at ASSIGNEE d s desired by A	to ASSIGNOR, the onable assistance esires to obtain or	at ASSIGNO to obtain, massert for the filing and o	OR or ASSIGN aintain, and as e Assigned Pro ranting of pate	NEE, and without further OR'S heirs, executors, or sert the fullest measure of perty, including executing ent rights in the Assigned Assigned Property.
executors and adn	ninistrators, for	by, and shall be I the uses and purpo ne it may properly o	ises above :	n ASSIGNOR, set forth and ref	and ASSIGNOR's heirs, ferred to and shall inure to
interpreted to acco	mplish the obj	ment is held by an ectives of the origin shall remain in full f	nal provision	n to the fullest (le, such provision shall be extent allowed by law and
This assignme the State of Delaw			nterpreted a	nd applied in a	ccordance with the laws of
PCT Application No		filed			
e and the approximation of the contraction of the c	· · · · · · · · · · · · · · · · · · ·	X NO.	***************************************		(Rev.03/20/2012)

Maryann Maas

UOP LLC

Assistant Secretary - Patent

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

EXECUTED as of the date(s) set forth below on behalf of	f the ASSIGNOR:	
Benjamin D. Yuhas	Date:	***************************************
Melissa M. Galey // //	Date:	**************************************
Mark A. Miller	Date: 15	1/2018
John P. S. Mowat	Date:	300000
Wharton Sinkler	Date:	
Gregory J. Lewis	Date:	***************************************
Lisa M. Knight	Date:	

PCT Application No. ______filed _____

(Rev.03/20/2012)

REEL: 051474 FRAME: 0238

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:

CRYSTALLINE METALLOPHOSPHATES, THEIR METHOD OF PREPARATION, AND USE

has been executed on even date herewith;
was executed on; X was filed on07/28/2017 and assigned_U.S. Appl. No62/538,357;
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;
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.
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This assignment shall be construed, governed, interpreted and applied in accordance with the laws of the State of Delaware, United States of America.
PCT Application No filed (Rev.03/20/2012)

Maryann Maas

UOP LLC

Assistant Secretary - Patent

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

EXECUTED as of the date(s) set forth below on behalf of the	ASSIGNUR:
	Date:
Benjamin D. Yuhas	
	Date:
Melissa M. Galey	
	Date:
Mark A. Miller	
	Date:
John P. S. Mowat	
	Date:
Wharton Sinkler	Les I among Les I am
The W	Date: 7/10/2018
Gregory J. Lewis	
	Date:
Lisa M. Knight	

filed

(Rev.03/20/2012)

PATENT REEL: 051474 FRAME: 0240

PCT Application No.