02/13/2018 504775932

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4822660

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES C BOHLING	02/20/2015
WEI GAO	02/03/2015
MICHAEL W LEONARD	02/06/2015
QING ZHANG	02/02/2015

RECEIVING PARTY DATA

Name:	ROHM AND HAAS COMPANY
Street Address:	100 INDEPENDENCE MALL WEST
City:	PHILADELPHIA
State/Country:	PENNSYLVANIA
Postal Code:	19106
Name:	DOW GLOBAL TECHNOLOGIES LLC
Street Address:	2040 DOW CENTER
City:	MIDLAND
State/Country:	MICHIGAN
Postal Code:	48674

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14949159

CORRESPONDENCE DATA

Fax Number: (989)636-3237

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: 989-636-8434

PJKACZMARCZYK@DOW.COM Email: **Correspondent Name:** ROHM AND HAAS COMPANY

C/O DOW GLOBAL TECHNOLOGIES LLC Address Line 1:

Address Line 2: 2040 DOW CENTER

Address Line 4: MIDLAND, MICHIGAN 48674

ATTORNEY DOCKET NUMBER: 77136-US-NP

> **PATENT** REEL: 044913 FRAME: 0271

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NAME OF SUBMITTER: PATRICIA KACZMARCZYK		
SIGNATURE: /Patricia Kaczmarczyk/		
DATE SIGNED:	02/13/2018	
Total Attachments: 4		
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source=77136 Executed Assignment#pa	age2.tif	
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FORM 110 (8 3/93)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

Eve verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: PHOSPHORUS ACID FUNCTIONALIZED OPAQUE POLYMER

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). If we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuncration received for my/our work. I/we sell, assign and transfer unto:

> Robin and Huas Company 100 Independence Mali West Philadelphia, Pennsylvania 19106 United States of America

an entity organized and existing under the laws of the state of Delaware (hereinafter referred to as the "Assignee"), my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or numinee(s)), and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws. International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

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	62/085,740	December 1, 2014	United States of America

of the application, on which the claim for priority will be based, and in and to any Letters Patent that may be issued for the invention in any and all countries. If we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request

Eve authorize Assignee or its designee to translate this Assignment into all languages necessary, and we request that any such Letters Patent be issued. to Assigned, and consent to the recordal of this Assignment, or a Notarral True Copy thereof, being under covenant not only that I/vie have full power to make the same, but also that such assigned rights are not encumbered by any grain, beense, or other right benerotion given.

Subscribed and Declared by movies

M Call will a PA	At	*****
this <u>20 By of Fab</u> 20 <u>15</u>	this day of	
Effective as of December 1, 2014	Effective as of December 1, 2014	
	Signature	
Full Name: James (180h) ing	Full Name - Wei Gao	
Mailing Address 400 Arcola Road	Mailing Address 400 Areola Road	
Collegeville, Pennsylvania 19426	Collegeville, Pennsylvania 19426	
Country United States of America	Country United States of America	
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	County Office States in America	
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At this day of		
At this day of , 20 Effective as of Occember 1, 2014	At this day of 20	
At this day of , 20 Effective as of Occember 1, 2014 Signature Full Name Michael W Leonard	At this day of 20	
At this day of , 20 Effective as of December 1, 2014 Signature	At this day of , 20 Signature Full Name	

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FORM 110 (8.592)

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> Rohm and Hass Company 100 independence Mali West Philodelphia, Pennsylvania 19106 United States of America

an entity organized and existing under the laws of the state of Delaware (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any curresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country	
62/085,740	December 1, 2014	United States of America	

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. Use do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, apposition or hitigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assigner may request.

I'we authorize Assignee or its designee to translate this Assignment into all languages necessary, and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant and only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: this day of , 20 , 20	At: Callaga 4: 114: FA 14: 14: 15: 14: 15: 14: 15: 14: 15: 14: 15: 15: 15: 15: 15: 15: 15: 15: 15: 15
Signature: Full Name: James C. Bolding Mailing Address: 4(t) Arcola Road Collegeville, Pennsylvania 19426 Country: United States of America	Signature: Full Name: Wei Gao Mailing Address: 490 Arcola Road Collegeville, Pennsylvania 19426 Country: United States of America
At: thisday of, 20 Effective as of December 1, 2014 Signature: Full Name: Michael W. Leonard Mailing Address: 400 Arcola Road Collegeville, Pennsylvanis 19426	At: this day of , 20 Signature: Full Name: Mailing Address:
Country: United States of America	Country

FORM 110 in syn

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Subscribed and Declared by melus:

At: this day of	At:
Mailing Address: 460 Arcola Road Collegeville, Pennsylvania 19426 Country: United States of America	Mailing Address: 400 Amola Road Collegeville, Pennsylvania 19426 Country: United States of America
At:	thisday of
Signature: Full Name Alichael W Leongon Mailing Address: 400 Arcola Road Collegoville, Pennsylvania 19426	Signature: Full Name: Mailing Address:
Country: United States of America	Country;

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> Daw Glahai Technologies LLC 2040 Dow Center Midland, Michigan 48674 United States of America

an entity organized and existing under the laws of the state of Delaware (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)), and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to inser here the Primity Number, Filing Date, and Filing Country

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At: (01/40-ille, PA	At:
A: Coll*Soille, FA this 2nd day of February 20 15	this day of , 20
Effective as of December 1, 2014	
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[Signature: L/X	Signature:
Full Name: Qing Zhang	Full Name:
Mailing Address: 400 Arcola Road	Muiling Address:
Collegeville, Pennsylvania 19426	
Country: United States of America	Country:
&	
At:	Ac:
this day of , 20	this day of , 30
Signature:	Signature:
Full Name:	Full Name:
Mailing Address:	Mailing Address:
Country:	Country:
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PATENT REEL: 044913 FRAME: 0276

RECORDED: 02/13/2018