

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4822660

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAMES C BOHLING	02/20/2015
WEI GAO	02/03/2015
MICHAEL W LEONARD	02/06/2015
QING ZHANG	02/02/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ROHM AND HAAS COMPANY
<b>Street Address:</b>	100 INDEPENDENCE MALL WEST
<b>City:</b>	PHILADELPHIA
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19106
<b>Name:</b>	DOW GLOBAL TECHNOLOGIES LLC
<b>Street Address:</b>	2040 DOW CENTER
<b>City:</b>	MIDLAND
<b>State/Country:</b>	MICHIGAN
<b>Postal Code:</b>	48674
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14949159
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(989)636-3237
<i>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.</i>	
<b>Phone:</b>	989-636-8434
<b>Email:</b>	PJKACZMARCZYK@DOW.COM
<b>Correspondent Name:</b>	ROHM AND HAAS COMPANY
<b>Address Line 1:</b>	C/O DOW GLOBAL TECHNOLOGIES LLC
<b>Address Line 2:</b>	2040 DOW CENTER
<b>Address Line 4:</b>	MIDLAND, MICHIGAN 48674
<b>ATTORNEY DOCKET NUMBER:</b>	77136-US-NP

<b>NAME OF SUBMITTER:</b>	PATRICIA KACZMARCZYK
<b>SIGNATURE:</b>	/Patricia Kaczmarczyk/
<b>DATE SIGNED:</b>	02/13/2018
<b>Total Attachments: 4</b> source=77136 Executed Assignment#page1.tif source=77136 Executed Assignment#page2.tif source=77136 Executed Assignment#page3.tif source=77136 Executed Assignment#page4.tif	

This Assignment, 110 is on the USPTO 1101 form, and has the same priority to other countries with the same 1101 number and 1011.  
 This Assignment, 110 is on the USPTO 1101 form, and has the same priority to other countries with the same 1101 number and 1011.

FORM 110 (R 3/93)

## INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (with Priority Rights)

I/we 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). I/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 remuneration received for my/our work, I/we sell, assign and transfer unto:

Rohm and Haas Company  
 100 Independence Mall 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 assignee(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

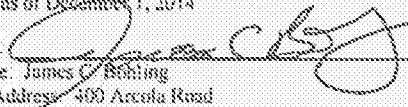
Priority Number	Filing Date	Filing Country
62/085,740	December 1, 2014	United States of America

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. I/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.

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 Notaral True Copy thereof, being under covenant not 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 Collegeville, PA  
 this 20 day of Feb, 2015  
 Effective as of December 1, 2014

Signature:   
 Full Name: James C. Bohling  
 Mailing Address: 400 Arcola Road  
 Collegeville, Pennsylvania 19426  
 Country: United States of America

At \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 Effective as of December 1, 2014

Signature: \_\_\_\_\_  
 Full Name: Wei Gao  
 Mailing Address: 400 Arcola Road  
 Collegeville, Pennsylvania 19426  
 Country: United States of America

At \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 Effective as of December 1, 2014

Signature: \_\_\_\_\_  
 Full Name: Michael W. Leonard  
 Mailing Address: 400 Arcola Road  
 Collegeville, Pennsylvania 19426  
 Country: United States of America

At \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 Effective as of December 1, 2014

Signature: \_\_\_\_\_  
 Full Name: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 Country: \_\_\_\_\_

This Assignment 110 is in the EPC/EPC 2011 language and has the same meaning in other languages with the same 110 number and R 120a.

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This Assignment 110 is in the EPC/EPC 2011 language and has the same meaning in other languages with the same 110 number and R 120a.

FORM 110 (R. 5.97)

# INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (with Priority Rights)

I/we 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). I/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 remuneration received for my/our work, I/we sell, assign and transfer unto:

Rohm and Haas Company  
100 Independence Mall 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 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 insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
62/685,740	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. I/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.

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Subscribed and Declared by me/us:

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 Effective as of December 1, 2014

Signature: \_\_\_\_\_  
 Full Name: James C. Bohling  
 Mailing Address: 400 Arcola Road  
 Collegeville, Pennsylvania 19426  
 Country: United States of America

At: Collegeville, PA  
 this 3<sup>rd</sup> day of Feb., 2015  
 Effective as of December 1, 2014

Signature: Wei Gao  
 Full Name: Wei Gao  
 Mailing Address: 400 Arcola Road  
 Collegeville, Pennsylvania 19426  
 Country: United States of America

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 Effective as of December 1, 2014

Signature: \_\_\_\_\_  
 Full Name: Michael W. Leonard  
 Mailing Address: 400 Arcola Road  
 Collegeville, Pennsylvania 19426  
 Country: United States of America

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

Signature: \_\_\_\_\_  
 Full Name: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 Country: \_\_\_\_\_

FORM 110 (R 5/97)

### INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verify 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 names(s). I/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 remuneration received for my/our work, I/we sell, assign and transfer unto:

Rohm and Haas Company  
100 Independence Mall 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 nominees(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 Conventions(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. I/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.

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Subscribed and Declared by me/us:

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of December 1, 2014

Signature: \_\_\_\_\_  
Full Name: James C. Bohling  
Mailing Address: 400 Arcola Road  
Collegeville, Pennsylvania 19426  
Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of December 1, 2014

Signature: \_\_\_\_\_  
Full Name: Wei Gao  
Mailing Address: 400 Arcola Road  
Collegeville, Pennsylvania 19426  
Country: United States of America

At: COLLEGEVILLE, PA  
this 6<sup>th</sup> day of FEBRUARY, 2015  
Effective as of December 1, 2014

Signature: [Signature]  
Full Name: Michael W. Leonard  
Mailing Address: 400 Arcola Road  
Collegeville, Pennsylvania 19426  
Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of December 1, 2014

Signature: \_\_\_\_\_  
Full Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Country: \_\_\_\_\_

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and 1/Date.

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FORM 110 (R 04/97)

## INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (with Priority Rights)

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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). I/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 remuneration received for my/our work, I/we sell, assign and transfer unto:

Dow Global 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 insert here the Priority Number, Filing Date, and Filing Country

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

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Subscribed and Declared by me/us:

At: <u>Collegeville, PA</u> this <u>23<sup>rd</sup></u> day of <u>February</u> , 20 <u>15</u> Effective as of December 1, 2014 Signature: _____ Full Name: <u>Qing Zhang</u> Mailing Address: <u>400 Arcula Road</u> <u>Collegeville, Pennsylvania 19426</u> Country: <u>United States of America</u>
--

At: _____ this _____ day of _____, 20____ Signature: _____ Full Name: _____ Mailing Address: _____ Country: _____
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At: _____ this _____ day of _____, 20____ Signature: _____ Full Name: _____ Mailing Address: _____ Country: _____
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At: _____ this _____ day of _____, 20____ Signature: _____ Full Name: _____ Mailing Address: _____ Country: _____
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