

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4288571

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONATHAN G. WEIS	09/27/2016
WENJUN XU	09/27/2016
NAN-RONG CHIOU	09/29/2016
MOHAMMAD T. ISLAM	09/28/2016
GEORGE C. JACOB	11/02/2016
BHAWESH KUMAR	09/27/2016
SARAH E. MISTROIANNI	09/28/2016

RECEIVING PARTY DATA

Name:	Rohm and Haas Electronic Materials CMP Holdings, Inc.
Street Address:	451 Bellevue Road
City:	Newark
State/Country:	DELAWARE
Postal Code:	19713
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:	15264056

CORRESPONDENCE DATA

Fax Number: (302)283-2144

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: 302-456-6622

Email: pconnell@dow.com

Correspondent Name: PATRICIA CONNELL

Address Line 1: 451 BELLEVUE ROAD

Address Line 4: NEWARK, DELAWARE 19713

PATENT

ATTORNEY DOCKET NUMBER:	79580
NAME OF SUBMITTER:	PATRICIA CONNELL
SIGNATURE:	/Patricia Connell/
DATE SIGNED:	02/23/2017

Total Attachments: 7

source=79580AssignmentsExecuted#page1.tif

source=79580AssignmentsExecuted#page2.tif

source=79580AssignmentsExecuted#page3.tif

source=79580AssignmentsExecuted#page4.tif

source=79580AssignmentsExecuted#page5.tif

source=79580AssignmentsExecuted#page6.tif

source=79580AssignmentsExecuted#page7.tif

ASSIGNMENT OF PATENT APPLICATION

We/I, the undersigned

Jonathan G. Weis, of Bear, Delaware; Wenjun Xu, of Pottstown, Pennsylvania; Nan-Rong Chiou, of Wilmington, Delaware; Mohammad T. Islam, of Newark, Delaware

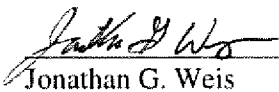
Hereby declare that

We/I are true and first inventor(s) of an invention relating to

HIGH PLANARIZATION EFFICIENCY CHEMICAL MECHANICAL POLISHING PADS AND METHODS OF MAKING

which is disclosed in an application for Letters Patent in the United States of America, executed the 27th, 28th, 29th day of September, 2016 (Case No. 79580); and, for valuable consideration, the receipt and adequacy of which is hereby acknowledged and in fulfillment of our pre-existing obligation of assignment, we hereby sell, assign and transfer unto Rohm and Haas Electronic Materials CMP Holdings, Inc., a corporation organized and existing under the laws of the State of Delaware in the United States of America and having its mailing address at 451 Bellevue Road, Newark, Delaware, hereinafter referred to as the assignee, the entire right, title, and interest in and to the aforesaid application for Letters Patent, including any priority rights derived from the aforesaid application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International Convention, and the entire right, title and interest in and to any and all our inventions, whether joint or sole, disclosed in the aforesaid application for Letters Patent, and in and to any and all applications for letters Patent for any such inventions in any country whatsoever, and in and to any and all patents for any such inventions in any country whatsoever, with the sole right to file such applications in its name or ours, including the sole right to file such applications under the aforesaid International Convention, together with the sole right to have said patents granted in its name or ours and to enforce said patents and to sue for and recover profits and damages for any and all infringements thereof, and hereby agree, whenever requested, to communicate to us respecting said inventions, to testify in any legal proceeding, to execute all applications, papers, or instruments necessary or required by said assignee, its successors, assigns, and legal representatives to carry into effect any of the provisions of this instrument, and generally to do everything possible to aid said assignee, its successors, assigns and legal representatives to obtain and enforce proper patent protection for said inventions in any and all countries.

IN WITNESS WHEREOF, We have hereunto signed our names on the day and year set forth below.


Jonathan G. Weis


9/27/2016
DATE

Wenjun Xu

DATE


Nan-Rong Chioti

9/29/2016
DATE


Mohammad T. Islam

9/28/2016
DATE

ASSIGNMENT OF PATENT APPLICATION

We/I, the undersigned

Jonathan G. Weis, of Bear, Delaware; Wenjun Xu, of Pottstown, Pennsylvania; Nan-Rong Chiou, of Wilmington, Delaware; Mohammad T. Islam, of Newark, Delaware

Hereby declare that

We/I are true and first inventor(s) of an invention relating to

HIGH PLANARIZATION EFFICIENCY CHEMICAL MECHANICAL POLISHING PADS AND METHODS OF MAKING

which is disclosed in an application for Letters Patent in the United States of America, executed the 27th day of September, 2016 (Case No. 79580); and, for valuable consideration, the receipt and adequacy of which is hereby acknowledged and in fulfillment of our pre-existing obligation of assignment, we hereby sell, assign and transfer unto Rohm and Haas Electronic Materials CMP Holdings, Inc., a corporation organized and existing under the laws of the State of Delaware in the United States of America and having its mailing address at 451 Bellevue Road, Newark, Delaware, hereinafter referred to as the assignee, the entire right, title, and interest in and to the aforesaid application for Letters Patent, including any priority rights derived from the aforesaid application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International Convention, and the entire right, title and interest in and to any and all our inventions, whether joint or sole, disclosed in the aforesaid application for Letters Patent, and in and to any and all applications for letters Patent for any such inventions in any country whatsoever, and in and to any and all patents for any such inventions in any country whatsoever, with the sole right to file such applications in its name or ours, including the sole right to file such applications under the aforesaid International Convention, together with the sole right to have said patents granted in its name or ours and to enforce said patents and to sue for and recover profits and damages for any and all infringements thereof, and hereby agree, whenever requested, to communicate to us respecting said inventions, to testify in any legal proceeding, to execute all applications, papers, or instruments necessary or required by said assignee, its successors, assigns, and legal representatives to carry into effect any of the provisions of this instrument, and generally to do everything possible to aid said assignee, its successors, assigns and legal representatives to obtain and enforce proper patent protection for said inventions in any and all countries.

IN WITNESS WHEREOF, We have hereunto signed our names on the day and year set forth below.

Jonathan G. Weis

DATE

Wenjun Xu
Wenjun Xu

9/27/2016
DATE

Nan-Rong Chiou

DATE

Mohammad T. Islam

DATE

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

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

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: **HIGH PLANARIZATION EFFICIENCY CHEMICAL MECHANICAL POLISHING PADS AND METHODS OF MAKING**

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

Priority Number	Filing Date	Filing Country
15/264,056	September 13, 2016	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 Notarial 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: <u>Newark, Delaware</u> this <u>2nd</u> day of <u>November</u> , 20 <u>16</u> Effective as of September 13, 2016
Signature: <u>George C. Jacob</u> Full Name: George C. Jacob Mailing Address: 451 Bellevue Road Newark, Delaware 19713 United States of America

At: _____ this _____ day of _____, 20 _____ Effective as of September 13, 2016
Signature: _____ Full Name: Bhawesh Kumar Mailing Address: B-1470 2301 N. Brazosport Boulevard Freeport, Texas 77541 United States of America

At: _____ this _____ day of _____, 20 _____ Effective as of September 13, 2016
Signature: _____ Full Name: Sarah E. Mastroianni Mailing Address: 451 Bellevue Road Newark, Delaware 19713 United States of America

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

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

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

This Assignment (110) is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R1 Date
 This Assignment (110) is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R1 Date

FORM 110 (R 3/97)

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: **HIGH PLANARIZATION EFFICIENCY CHEMICAL MECHANICAL POLISHING PADS AND METHODS OF MAKING**

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

Priority Number	Filing Date	Filing Country
15/264,056	September 13, 2016	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 Notarial 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: _____
 this _____ day of _____, 20____
 Effective as of September 13, 2016

Signature: _____
 Full Name: George C. Jacob
 Mailing Address: 451 Bellevue Road
 Newark, Delaware 19713
 United States of America

At: Lake Jackson, TX
 this 27 day of September, 2016
 Effective as of September 13, 2016

Signature: Bhawesh Kumar
 Full Name: Bhawesh Kumar
 Mailing Address: B-1470
 2301 N. Brazosport Boulevard
 Freeport, Texas 77541
 United States of America

At: _____
 this _____ day of _____, 20____
 Effective as of September 13, 2016

Signature: _____
 Full Name: Sarah E. Mastroianni
 Mailing Address: 451 Bellevue Road
 Newark, Delaware 19713
 United States of America

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Mailing Address: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Mailing Address: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Mailing Address: _____

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

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

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: **HIGH PLANARIZATION EFFICIENCY CHEMICAL MECHANICAL POLISHING PADS AND METHODS OF MAKING**

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

Priority Number	Filing Date	Filing Country
15/264,056	September 13, 2016	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 Notarial 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: _____
 this _____ day of _____, 20____
 Effective as of September 13, 2016

Signature: _____
 Full Name: George C. Jacob
 Mailing Address: 451 Bellevue Road
 Newark, Delaware 19713
 United States of America

At: _____
 this _____ day of _____, 20____
 Effective as of September 13, 2016

Signature: _____
 Full Name: Bhawesh Kumar
 Mailing Address: B-1470
 2301 N. Brazosport Boulevard
 Freeport, Texas 77541
 United States of America

At: Auburn Hills, MI
 this 28 day of September, 2016
 Effective as of September 13, 2016

Signature: [Signature]
 Full Name: Sarah E. Mastroianni
 Mailing Address: 451 Bellevue Road
 Newark, Delaware 19713
 United States of America

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Mailing Address: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Mailing Address: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Mailing Address: _____