

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5016209

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BAINIAN QIAN	09/22/2015
TERESA BRUGAROLAS BRUFAU	09/21/2015
JULIA KOZHUKH	09/21/2015
DAVID MICHAEL VENEZIALE	09/22/2015
YUHUA TONG	09/22/2015
DIEGO LUGO	09/21/2015
JEFFREY B. MILLER	09/21/2015
TONY QUAN TRAN	09/22/2015
MARC R. STACK	09/21/2015
ANDREW WANK	09/21/2015
JEFFREY JAMES HENDRON	09/25/2015
GEORGE C. JACOB	10/01/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Rohm and Haas Electronic Materials CMP Holdings, Inc.
<b>Street Address:</b>	451 Bellevue Road
<b>City:</b>	Newark
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19713
<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>	15163184
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(302)283-2144
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent</i>	
<b>PATENT</b>	

*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

<b>ATTORNEY DOCKET NUMBER:</b>	78070-US-CIP
<b>NAME OF SUBMITTER:</b>	PATRICIA A. CONNELL
<b>SIGNATURE:</b>	/Patricia A. Connell/
<b>DATE SIGNED:</b>	06/20/2018

**Total Attachments: 3**

source=78070AssignmentsExecuted#page1.tif  
source=78070AssignmentsExecuted#page2.tif  
source=78070AssignmentsExecuted#page3.tif

Application Serial Number: 14/751,410

Filing Date: 06/26/2015

Attorney Docket No.: 78070-US-NP

## ASSIGNMENT OF PATENT APPLICATION

We/I, the undersigned

Bainian Qian, of Newark, Delaware; Teresa Brugarolas Brufau, of Philadelphia, Pennsylvania; Julia Kozhukh, of Bear, Delaware; David Michael Venezia, of Hatfield, Pennsylvania; Yuhua Tong, of Hockessin, Delaware; Diego Lugo, of Newark, Delaware; Jeffrey B. Miller of West Chester, Pennsylvania; Tony Quan Tran, of Bear, Delaware; Marc R. Stack, of Middletown, Delaware; Andrew Wank, of Avondale, Pennsylvania; and Jeffrey James Hendron, of Elkton, Maryland

Hereby declare that

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

### METHOD OF MAKING COMPOSITE POLISHING LAYER FOR CHEMICAL MECHANICAL POLISHING PAD

which is disclosed in an application for Letters Patent in the United States of America, executed the 21<sup>st</sup>, 22<sup>nd</sup> & 25<sup>th</sup> day of September, 2015 (Case No. 78070); 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.

Bainian Qian  
Bainian Qian

9/22/15  
DATE

T. Brugarolas  
Teresa Brugarolas Brufau

9/21/15  
DATE

Julia Kozhukh  
Julia Kozhukh

9/21/15  
DATE

David Michael Venezia  
David Michael Venezia

9/22/15  
DATE

Yuhua Tong  
Yuhua Tong

9-22-15  
DATE

Diego Lugo  
Diego Lugo

9/21/15  
DATE

Jeffrey B. Miller  
Jeffrey B. Miller

9/21/15  
DATE

Tony Quan Tran  
Tony Quan Tran

9/22/15  
DATE

Marc R. Stack  
Marc R. Stack

9/21/15  
DATE

Andrew Wank  
Andrew Wank

9/21/15  
DATE

Jeffrey James Hendron  
Jeffrey James Hendron

9/25/15  
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: **METHOD OF MAKING COMPOSITE POLISHING LAYER FOR CHEMICAL MECHANICAL POLISHING PAD**

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
14/751,410	June 26, 2015	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: Newark, Delaware  
this 1<sup>st</sup> day of October, 20 15  
Effective as of June 26, 2015  
Signature: George C. Jacob  
Full Name: George C. Jacob  
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: \_\_\_\_\_

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

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