503718448 03/02/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BAINIAN QIAN	05/07/2014
MARTY W. DEGROOT	07/05/2014

RECEIVING PARTY DATA

Name:	Rohm and Haas Electronic Materials CMP Holdings, Inc.	
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State/Country:	DELAWARE	
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Name: Street Address:	DOW GLOBAL TECHNOLOGIES LLC 2040 DOW CENTER	
Street Address:	2040 DOW CENTER	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14264440

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.

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ATTORNEY DOCKET NUMBER: 76216	
NAME OF SUBMITTER:	PATRICIA CONNELL
SIGNATURE:	/Patricia Connell/
DATE SIGNED:	03/02/2016

PATENT 503718448 REEL: 037873 FRAME: 0399

Total Attachments: 2

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PATENT REEL: 037873 FRAME: 0400

Application Serial Number: 14/264,440 Filing Date: April 29, 2014 Attorney Docket No.: 76216

ASSIGNMENT OF PATENT APPLICATION

We/I, the undersigned

Bainian Oian

Hereby declare that

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

CHEMICAL MECHANICAL POLISHING PAD WITH ENDPOINT DETECTION WINDOW

which is disclosed in an application for Letters Patent in the United States of America, executed the day of May, , 2014 (Case No. 76216); 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 5/7/14
DATE Bainian Oian

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: CHEMICAL MECHANICAL POLISHING PAD WITH ENDPOINT DETECTION WINDOW

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

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
14/264,440	April 29, 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 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:

T 10 U 0000 T 1	
At: Jhunan, Miaoli, 35053 Taiwan	At:
this 7 th day of May , 20 14	this, 20,
Effective as of 04/29/2014	
J 1	
Signature: 20 mty W. Dethout	Signature:
Full Name: Marty W. DeGroot	Full Name:
Residence: 218 East Union Drive	Residence:
Middletown, Delaware 19709	
Country: United States of America	Country:
Citizenship: Canada	Citizenship:
P.O. Address: Same as Residence	P.O. Address:
Employed By: The Dow Chemical Company	Employed By:
Of Country:	Of Country:
At:	At:
this day of, 20	this, 20
Signature:	Signature:
Full Name:	Full Name:
Residence:	Residence:
Country:	Country;
Citizenship;	Citizenship:
P.O. Address:	P.O. Address:
Employed By:	Employed By:
• • •	
Of Country:	Of Country:

PATENT REEL: 037873 FRAME: 0402