

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2609405

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>GARY HAMM</td> <td>12/15/2011</td> </tr> <tr> <td>JASON A. REESE</td> <td>01/03/2012</td> </tr> <tr> <td>GEORGE R. ALLARDYCE</td> <td>01/03/2012</td> </tr> </tbody> </table>		Name	Execution Date	GARY HAMM	12/15/2011	JASON A. REESE	01/03/2012	GEORGE R. ALLARDYCE	01/03/2012
Name	Execution Date								
GARY HAMM	12/15/2011								
JASON A. REESE	01/03/2012								
GEORGE R. ALLARDYCE	01/03/2012								
RECEIVING PARTY DATA									
Name:	ROHM AND HAAS ELECTRONIC MATERIALS LLC								
Street Address:	455 FOREST STREET								
City:	MARLBOROUGH								
State/Country:	MASSACHUSETTS								
Postal Code:	01752								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13324332</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13324332				
Property Type	Number								
Application Number:	13324332								
CORRESPONDENCE DATA									
Fax Number:	(508)787-4730								
Phone:	5082297364								
Email:	drivernider@dow.com								
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>									
Correspondent Name:	ROHM AND HAAS ELECTRONIC MATERIALS LLC								
Address Line 1:	455 FOREST STREET								
Address Line 4:	MARLBOROUGH, MASSACHUSETTS 01752								
ATTORNEY DOCKET NUMBER:	70352-US-NP								
NAME OF SUBMITTER:	JOHN J. PISKORSKI								
Signature:	/John J. Piskorski/								
Date:	11/09/2013								

CH \$40.00 13324332

PATENT

Total Attachments: 4

source=70352-US-NP_ASSIGNMENT#page1.tif

source=70352-US-NP_ASSIGNMENT#page2.tif

source=70352-US-NP_ASSIGNMENT#page3.tif

source=70352-US-NP_ASSIGNMENT#page4.tif

ASSIGNMENT

WHEREAS, I, Gary HAMM of Billerica, Massachusetts, I, Jason A. REESE of Londonderry, New Hampshire, I, George R. ALLARDYCE of Burbage, Hinckley, UNITED KINGDOM, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "ELECTROCHEMICAL ETCHING OF SEMICONDUCTORS", for which an application for United States Letters Patent with the same title was filed with the United States Patent and Trademark Office on December 13, 2011 and assigned United States Non-Provisional Patent Application Serial No. 13,324,332, which application corresponds to and claims priority of United States Provisional Application Serial No. 61/422,597, filed December 13, 2010 and

WHEREAS, Rohm and Haas Electronic Materials LLC, located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for the above consideration, the Assignors have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

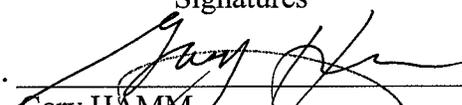
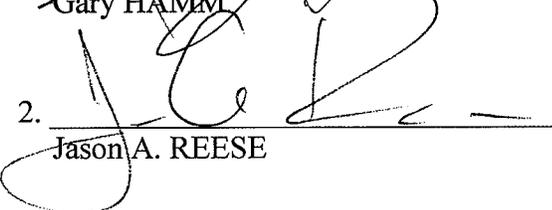
The Assignors also have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignors also hereby grant the Patent Law Department of Rohm and Haas Electronic Materials LLC the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Effective from the date of: December 13, 2010.

	Signatures	Date
1.	 _____ Gary HAMM	<u>12-15-2011</u>
2.	 _____ Jason A. REESE	<u>01-03-2012</u>
3.	_____ George R. ALLARDYCE	_____

ASSIGNMENT

WHEREAS, I, Gary HAMM of Billerica, Massachusetts, I, Jason A. REESE of Londonderry, New Hampshire, I, George R. ALLARDYCE of Burbage, Hinckley, UNITED KINGDOM, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "ELECTROCHEMICAL ETCHING OF SEMICONDUCTORS", for which an application for United States Letters Patent with the same title was filed with the United States Patent and Trademark Office on December 13, 2011 and assigned United States Non-Provisional Patent Application Serial No. 13,324,332, which application corresponds to and claims priority of United States Provisional Application Serial No. 61/422,597, filed December 13, 2010 and

WHEREAS, Rohm and Haas Electronic Materials LLC, located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for the above consideration, the Assignors have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors also have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignors also hereby grant the Patent Law Department of Rohm and Haas Electronic Materials LLC the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Effective from the date of: December 13, 2010.

	Signatures	Date
1.	<u>Gary HAMM</u>	<u></u>
2.	<u>Jason A. REESE</u>	<u></u>
3.	<u> George R. ALLARDYCE</u>	<u>3 January 2012</u>