PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTOPHER D GILMORE	12/09/2014
CHI-WAN LEE	12/08/2014
PETER TREFONAS III	12/08/2014
WILLIAM WILLIAMS III	12/09/2014
QIUZHE XIE	12/09/2014

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

Property Type	Number
Application Number:	14569813

CORRESPONDENCE DATA

Fax Number: (508)787-4730

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: 508-229-7381 **Email:** tfalcone@dow.com

Correspondent Name: ROHM AND HAAS ELECTRONIC MATERIALS LLC

Address Line 1: P.O. BOX 1967
Address Line 2: 2040 DOW CENTER

Address Line 4: MIDLAND, MICHIGAN 48641

Total Attachments O		
DATE SIGNED:	07/22/2015	
SIGNATURE:	/S. Matthew Cairns/	
NAME OF SUBMITTER:	S. MATTHEW CAIRNS	
ATTORNEY DOCKET NUMBER:	77236-US-NP	

Total Attachments: 2

PATENT REEL: 036149 FRAME: 0294 source=77236-US-NP_Assignment#page1.tif source=77236-US-NP_Assignment#page2.tif

PATENT REEL: 036149 FRAME: 0295

Attorney Docket No.: 77236-US-NP

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ASSIGNMENT

WHEREAS, I, Christopher D. GILMORE of Watertown, Massachusetts, I, Chi-Wan LEE of Grafton, Massachusetts, I, Peter TREFONAS, III of Medway, Massachusetts, I, William WILLIAMS, III, of Ipswich, Massachusetts, I, Qiuzhe XIE of Westborough, Massachusetts, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "PURIFICATION METHOD", 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 15, 2014 and assigned United States Non-Provisional Patent Application Serial No. 14/569813, 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, reexaminations, 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.

PATENT REEL: 036149 FRAME: 0296 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.

Signatures

Date

1. Christopher D. GILMORE

2. Chi-Wan LEE

3. Peter TREFONAS, III

4. William WILLIAMS, III

5. Qiuzhe XIE

PATENT REEL: 036149 FRAME: 0297

RECORDED: 07/22/2015