

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5241504

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIN WUK SUNG	07/06/2016
MINGQI LI	07/07/2016
JONG KEUN PARK	07/06/2016
JOSHUA A. KAITZ	07/06/2016
VIPUL JAIN	07/06/2016
CHUNYI WU	07/06/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ROHM AND HAAS ELECTRONIC MATERIALS LLC
<b>Street Address:</b>	455 FOREST STREET
<b>City:</b>	MARLBOROUGH
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01752
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15224503
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(302)355-4243
<i>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.</i>	
<b>Phone:</b>	3029994278
<b>Email:</b>	pto-legal.prc@dupont.com
<b>Correspondent Name:</b>	E. I. DU PONT DE NEMOURS AND COMPANY
<b>Address Line 1:</b>	974 CENTRE ROAD
<b>Address Line 2:</b>	CHESTNUT RUN PLAZA 721/2340
<b>Address Line 4:</b>	WILMINGTON, DELAWARE 19805
<b>ATTORNEY DOCKET NUMBER:</b>	DI79341-US-NP
<b>NAME OF SUBMITTER:</b>	AHNALESE RUSHMANN
<b>SIGNATURE:</b>	/Ahnalese Rushmann/
<b>DATE SIGNED:</b>	11/16/2018

**Total Attachments: 1**

source=20181107\_DI79341USNP\_ExecutedAssignment\_RohmAndHaasElectronicMaterialsLLC#page1.tif

This Assignment 110 is in the English language and has the same priority as the application with the same 110 number and RCB no.

This Assignment 110 is in the English language and has the same priority as the application with the same 110 number and RCB no.

FORM 110 (R 5/8/7)

## 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: **PATTERN TREATMENT METHODS**

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:

Rohm and Haas Electronic Materials LLC  
455 Forest Street  
Marlborough, Massachusetts 01752  
United States of America

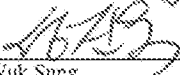
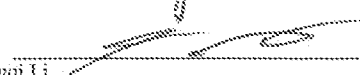
an entity organized and existing under the laws of the state of Delaware (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted 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

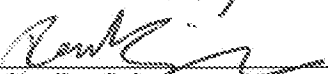
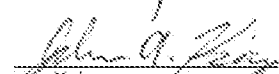
Priority Number	Filing Date	Filing Country
	Concurrently Herewith	United States of America

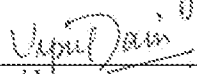

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation 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.

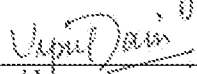

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recording of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

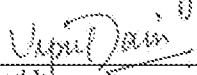

Subscribed and Declared by me/us:

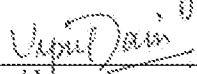

At: <u>Marlborough, MA</u>	At: <u>Marlborough, MA</u>
this <u>6</u> day of <u>July</u> , 20 <u>16</u>	this <u>7</u> day of <u>July</u> , 20 <u>16</u>
Signature: 	Signature: 
Full Name: <u>Jin Wuk Sung</u>	Full Name: <u>Mingqi Li</u>
Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>	Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>

At: <u>Marlborough, MA</u>	At: <u>Marlborough, MA</u>
this <u>6</u> day of <u>July</u> , 20 <u>16</u>	this <u>6</u> day of <u>July</u> , 20 <u>16</u>
Signature: 	Signature: 
Full Name: <u>Jong Keun Park</u>	Full Name: <u>Joshua A. Kaitz</u>
Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>	Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>

At: <u>Marlborough, MA</u>	At: <u>Marlborough, MA</u>
this <u>6</u> day of <u>July</u> , 20 <u>16</u>	this <u>6</u> day of <u>July</u> , 20 <u>16</u>
Signature: 	Signature: 
Full Name: <u>Vipul Jain</u>	Full Name: <u>Chunyi Wu</u>
Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>	Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>

At: <u>Marlborough, MA</u>	At: <u>Marlborough, MA</u>
this <u>6</u> day of <u>July</u> , 20 <u>16</u>	this <u>6</u> day of <u>July</u> , 20 <u>16</u>
Signature: 	Signature: 
Full Name: <u>Vipul Jain</u>	Full Name: <u>Chunyi Wu</u>
Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>	Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>

At: <u>Marlborough, MA</u>	At: <u>Marlborough, MA</u>
this <u>6</u> day of <u>July</u> , 20 <u>16</u>	this <u>6</u> day of <u>July</u> , 20 <u>16</u>
Signature: 	Signature: 
Full Name: <u>Vipul Jain</u>	Full Name: <u>Chunyi Wu</u>
Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>	Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>

At: <u>Marlborough, MA</u>	At: <u>Marlborough, MA</u>
this <u>6</u> day of <u>July</u> , 20 <u>16</u>	this <u>6</u> day of <u>July</u> , 20 <u>16</u>
Signature: 	Signature: 
Full Name: <u>Vipul Jain</u>	Full Name: <u>Chunyi Wu</u>
Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>	Mailing Address: <u>455 Forest Street</u> <u>Marlborough, Massachusetts 01752</u> <u>United States of America</u>

**PATENT**