

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3276462

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DEYAN WANG	03/06/2012
JIBIN SUN	03/06/2012
PETER TREFONAS	03/02/2012
KATHLEEN M. O'CONNELL	03/06/2012
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	
Property Type	Number
Application Number:	13776496
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	72473-US-NP
NAME OF SUBMITTER:	BARB STIEVE
SIGNATURE:	/Barb Stieve/
DATE SIGNED:	03/23/2015
Total Attachments: 2	
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This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R/Date.

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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: **METAL HARDMASK COMPOSITIONS**

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

a corporation organized and existing under the laws 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
61/607,035	March 6, 2012	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: Marlborough, MA 01752 USA
 this 6 day of March, 20 12
 Effective as of March 6, 2012
 Signature: [Signature]
 Full Name: Deyan Wang
 Residence: 68 Laurel Drive
 Hudson, Massachusetts 01749
 Country: United States of America
 Citizenship: United States of America
 P.O. Address: Same as Residence
 Employed By: Rohm and Haas Electronic Materials LLC
 Of Country: United States of America

At: Marlborough, MA 01752 USA
 this 6th day of March, 20 12
 Effective as of March 6, 2012
 Signature: [Signature]
 Full Name: Jibin Sun
 Residence: 285 Plantation Street, Apt. 218
 Worcester, Massachusetts 01604
 Country: United States of America
 Citizenship: People's Republic of China
 P.O. Address: Same as Residence
 Employed By: Rohm and Haas Electronic Materials LLC
 Of Country: United States of America

At: Marlborough, MA 01752 USA
 this 7 day of March, 20 12
 Effective as of March 6, 2012
 Signature: [Signature]
 Full Name: Peter Trefonas
 Residence: 40 Summer Hill Road
 Medway, Massachusetts 02053
 Country: United States of America
 Citizenship: United States of America
 P.O. Address: Same as Residence
 Employed By: Rohm and Haas Electronic Materials LLC
 Of Country: United States of America

At: Marlborough, MA 01752 USA
 this 6th day of March, 20 12
 Effective as of March 6, 2012
 Signature: [Signature]
 Full Name: Kathleen M. O'Connell
 Residence: 308 Sneece Pond Road
 Cumberland, Rhode Island 02864
 Country: United States of America
 Citizenship: United States of America
 P.O. Address: Same as Residence
 Employed By: Rohm and Haas Electronic Materials LLC
 Of Country: United States of America

() Additional names and signatures are attached.

[illegible]

This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number.

REEL: 035226 FRAME: 0547