#### 503229844 03/23/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 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		
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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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**PATENT** REEL: 035226 FRAME: 0545 503229844

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 Marlbons, MADITER USA	At: Mariborough, MA 01752 USA
this 6 day of march, 20 12	this 6th day of March ,20 12
Effective as of March 6, 2012	Effective as of March 6, 2012
ا	اس زیا
Signature:	Signature: 4
Full Name: Deyan Wang	Full Name: Jibin Sun
Residence: 68 Laurel Drive	Residence: 285 Plantation Street, Apt. 218
Hudson, Massachusetts 01749	Worcester, Massachusetts 01604
Country: United States of America	Country: United States of America
Citizenship: United States of America	Citizenship: People's Republic of China
P.O. Address: Same as Residence	P.O. Address: Same as Residence
Employed By: Rohm and Haas Electronic Materials LLC	Employed By: Rohm and Haas Electronic Materials LLC
Of Country: United States of America	Of Country: United States of America
At: Markerough M4 01752 USA	At: MANHOLOUGH, MIT 0/752
this 7 day of March , 20 12	this 10 m day of Mirch , 20 12
Effective as of March 6, 2012	Effective as of March 6, 2012
	1 1 A A A A A A A A A A A A A A A A A A
Signature: Tehn hours to	Signature: Estimate on United
Full Name: Peter Trefonas	Full Name: Kathleen M. O'connell
Residence: 40 Summer Hill Road	Residence: 308 Sneech Pond Road
Medway, Massachusetts 02053	Cumberland, Rhode Island 02864
Country: United States of America	Country: United States of America
Citizenship: United States of America	Citizenship: United States of America
P.O. Address: Same as Residence	P.O. Address: Same as Residence
Employed By: Rohm and Haas Electronic Materials LLC	Employed By: Rohm and Haas Electronic Materials LLC
Of Country: United States of America	Of Country: United States of America

( ) Additional names and signatures are attached.

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

# ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE:

ROHM AND HAAS ELECTRONIC MATERIALS LLC

455 Forest Street

Marlborough, Massachusetts 01752

United States of America

hereby accept the ASSIGNMENT attached hereto which is dated: March 6, 2012 and March 7, 2012; effective as of March 6, 2012

From, the ASSIGNOR: Deyan Wang, 68 Laurel Drive, Hudson, Massachusetts 01749, United States of America, Citizen of United States of America; Jibin Sun, 285 Plantation Street, Apt. 218, Worcester, Massachusetts 01604, United States of America, Citizen of People's Republic of China; Peter Trefonas, 40 Summer Hill Road, Medway, Massachusetts 02053, United States of America, Citizen of United States of America; and Kathleen M. O'connell, 308 Sneech Pond Road, Cumberland, Rhode Island 02864, United States of America, Citizen of United States of America

of the invention entitled:

METAL HARDMASK COMPOSITIONS

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at	Midland	, Michiga	n 48674, USA			
this OHA	day of	Mari	ch_	٠	20 12-	
CORP. SEAL			By: M	B Ta	EUL IGEN	C MATERIALS LLC
N	OTAI	RIAL	CERTIF	ICA	E (Cor	poration)
UNITED ST. STATE OF M County/Paris	ИIСНІG	AN	CICA ) )SS )			
before me, JC known or identi and acknowledg	OHN B. T fied to me ged the san said Corp	REANGE to be the me as a fre	N, Assistant individual des e act and deed	Secretary cribed in I for uses	/, and who exectand purposes to	_, personally appeared uted the foregoing documen therein expressed by a of Delaware, United
further certify	that said	authority,	dated Decemb	er 16, 20	10, is based or	1
a Board Resoli	ition					

which I have seen, appointing the said individual Authorized Representative with full power to sign the foregoing document on behalf of the said corporation and that the purposes for which said document is granted are within the scope of the objects or activities of said corporation.

PCeliacea Sue Hollanghecon NOTARY PUBLIC

Rebecca Sue Hollingshead NOTARY PUBLIC, MICLAND COUNTY, MICHIGAN MY COMMISSION EXP'RES NOVEMBER 25, 2012

PATENT

REEL: 035226 FRAME: 0547

RECORDED: 03/23/2015