

## PATENT ASSIGNMENT COVER SHEET

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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>RALPH R. DAMMEL</td> <td>01/21/2010</td> </tr> <tr> <td>WEN-BING KANG</td> <td>01/06/2010</td> </tr> <tr> <td>YASUO SHIMIZU</td> <td>12/18/2009</td> </tr> <tr> <td>TOMONORI ISHIKAWA</td> <td>01/06/2010</td> </tr> </tbody> </table>		Name	Execution Date	RALPH R. DAMMEL	01/21/2010	WEN-BING KANG	01/06/2010	YASUO SHIMIZU	12/18/2009	TOMONORI ISHIKAWA	01/06/2010
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<table border="1"> <tr> <td>Name:</td> <td>AZ ELECTRONIC MATERIALS USA CORP.</td> </tr> <tr> <td>Street Address:</td> <td>70 MEISTER AVENUE</td> </tr> <tr> <td>City:</td> <td>SOMERVILLE</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>08876</td> </tr> </table>		Name:	AZ ELECTRONIC MATERIALS USA CORP.	Street Address:	70 MEISTER AVENUE	City:	SOMERVILLE	State/Country:	NEW JERSEY	Postal Code:	08876
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CORRESPONDENCE DATA											
<p>Fax Number: (908)429-3650</p> <p>Phone: 9084293536</p> <p>Email: Sangya.Jain@AZ-EM.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: SANGYA JAIN</p> <p>Address Line 1: AZ ELECTRONIC MATERIALS USA CORP.</p> <p>Address Line 2: 70 MEISTER AVENUE</p> <p>Address Line 4: SOMERVILLE, NEW JERSEY 08876</p>											
ATTORNEY DOCKET NUMBER:	2007JP307										
NAME OF SUBMITTER:	SANGYA JAIN										

Signature:	/Sangya Jain/
Date:	10/21/2013
Total Attachments: 2 source=2007JP307-Assignment#page1.tif source=2007JP307-Assignment#page2.tif	

ASSIGNMENT

WHEREAS, UNDERSIGNED DAMMEL Ralph. R., citizen of the United States of America, residing at c/o AZ Electronic Materials USA Corp., 70 Meister Avenue, Somerville, New Jersey 08876, United States of America, Wen-Bing KANG, citizen of People's Republic of China, residing at c/o AZ Electronic Materials (Japan) K.K., 3330, Chihama, Kakegawa-shi, Shizuoka 437-1412 Japan, Yasuo Shimizu, citizen of Japan, residing at 2-5-8, Hikari-Cho, Kokubunji-Shi, Tokyo 185-0034 Japan and Tomonori ISHIKAWA, citizen of Japan, residing at c/o AZ Electronic Materials (Japan) K.K., 3330, Chihama, Kakegawa-shi, Shizuoka 437-1412 Japan, respectively, have invented certain new and useful improvements (INVENTION) disclosed, shown, and described in an APPLICATION for Letters Patent of the United States entitled  
Silicon-containing composition for fine pattern formation and method for fine pattern formation using the same

Docket No. 2007JP307PCT US, and

WHEREAS, AZ Electronic Materials USA Corp., a corporation organized under the laws of the State of Delaware, 70 Meister Avenue, Somerville, New Jersey 08876 USA (ASSIGNEE) is desirous of acquiring the entire right, title and interest in and to the INVENTION, in the United States or the states of the European Patent Convention with effect for all designated contracting and extension states, and in and to any Letters Patent of the United States or the states of the European Patent Convention with effect for all designated contracting and extension states which may be granted embracing the INVENTION.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, UNDERSIGNED by these presents, sells, assigns, and transfers unto ASSIGNEE, its legal representatives, successors, and assigns, the entire right, title and interest for the United States and for the states of the European Patent Convention with effect for all designated contracting and extension states, in and to the INVENTION, and in and to the said APPLICATION, and in and to any applications for Letters Patent which have been or may be filed in any states of the European Patent Convention with effect for all designated contracting and extension states on said INVENTION, and in and to any and all priority rights generated by the filing of said APPLICATION in the United States or any states of the European Patent Convention with effect for all designated contracting and extension states, which may be granted covering the INVENTION, including any continuations, substitutions, divisions, reissues, or renewals thereof, said Letters Patent whether of this country or any states of the European Patent Convention with effect for all designated contracting and extension states to be held and enjoyed by ASSIGNEE for its interest, for its own use and behoof, and for its legal representatives, successors, and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by UNDERSIGNED had this assignment and sale not been made. The UNDERSIGNED hereby authorize and request our/my attorney(ies)/agent(s) associated with Customer No. 26289, of 70 Meister Avenue, Somerville, New Jersey 08876, to insert here in parentheses the application serial number and filing date of said application when known (Serial No. 12/733,451, filed March 2, 2010 ).

IN WITNESS WHEREOF this assignment has been executed by UNDERSIGNED on the date opposite his name.

DATE Ralph R. Gammel

01/21/2010

DAMMEL Ralph. R

DATE Jan. 06, 2010

Wen-Bing KANG

Wen-Bing KANG

DATE Dec. 18, 2009

Yasuo Shimizu

Yasuo Shimizu

DATE Jan. 06, 2010

石川 智規

Tomonori ISHIKAWA