

## PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>MARGIT CLAUSS</td> <td>11/12/2013</td> </tr> <tr> <td>WAN ZHANG-BEGLINGER</td> <td>11/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	MARGIT CLAUSS	11/12/2013	WAN ZHANG-BEGLINGER	11/12/2013
Name	Execution Date						
MARGIT CLAUSS	11/12/2013						
WAN ZHANG-BEGLINGER	11/12/2013						
RECEIVING PARTY DATA							
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State/Country:	MASSACHUSETTS						
Postal Code:	01752						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13239048</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13239048		
Property Type	Number						
Application Number:	13239048						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	JOHN J. PISKORSKI						
Signature:	/John J. Piskorski/						
Date:	11/21/2013						
Total Attachments: 2 source=70144-US-NP_ASSIGNMENT#page1.tif source=70144-US-NP_ASSIGNMENT#page2.tif							

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ASSIGNMENT

WHEREAS, I, Margit CLAUSS of Kriens, SWITZERLAND, I, Wan ZHANG-BEGLINGER of Adligenswil, SWITZERLAND, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "CYANIDE-FREE SILVER ELECTROPLATING SOLUTIONS", for which an application for United States Letters Patent with the same title was filed with the United States Patent and Trademark Office on September 21, 2011 and assigned United States Non-Provisional Patent Application Serial No. 13/239,048, which application corresponds to and claims priority of United States Provisional Application Serial No. 61/385,066, filed September 21, 2010 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, re-examinations, 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.

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.

Effective from the date of: September 21, 2010.

Signatures	Date
1. <u>Margit Clauss</u> Margit CLAUSS	<u>12 Nov 2013</u>
2. <u>Wan Zhang - Beclinger</u> Wan ZHANG-BEGLINGER	<u>12 Nov 2013</u>