

## PATENT ASSIGNMENT

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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>Tomohiro IWANO</td> <td>06/15/2012</td> </tr> <tr> <td>Takenori NARITA</td> <td>06/28/2012</td> </tr> <tr> <td>Daisuke RYUZAKI</td> <td>06/19/2012</td> </tr> </tbody> </table>		Name	Execution Date	Tomohiro IWANO	06/15/2012	Takenori NARITA	06/28/2012	Daisuke RYUZAKI	06/19/2012				
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<table border="1"> <tr> <td>Name:</td> <td>HITACHI CHEMICAL COMPANY, LTD.</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Nishi-Shinjuku 2-chome</td> </tr> <tr> <td>Internal Address:</td> <td>Shinjuku-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>163-0449</td> </tr> </table>		Name:	HITACHI CHEMICAL COMPANY, LTD.	Street Address:	1-1, Nishi-Shinjuku 2-chome	Internal Address:	Shinjuku-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	163-0449
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CORRESPONDENCE DATA													
<p>Fax Number: 7033126666          Phone: 7033126600          Email: rperez@antonelli.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Antonelli, Terry, Stout &amp; Kraus, LLP          Address Line 1: 1300 N. 17th Street          Address Line 2: Suite 1800          Address Line 4: Arlington, VIRGINIA 22209</p>													
ATTORNEY DOCKET NUMBER:	1303.52557X00												
NAME OF SUBMITTER:	William I. Solomon												
Total Attachments: 1 source=Assignment#page1.tif													

OP \$40.00 13582969

**ASSIGNMENT**

Whereas, I/we,

NameAddress

1) Tomohiro IWANO

c/o HITACHI CHEMICAL COMPANY, LTD.,

13-1, Higashi-cho 4-chome,  
Hitachi-shi, Ibaraki 317-8555 Japan

c/o HITACHI CHEMICAL COMPANY, LTD.,

2) Takenori NARITA

13-1, Higashi-cho 4-chome,  
Hitachi-shi, Ibaraki 317-8555 Japan

c/o Central Research Laboratory, Hitachi, Ltd.,

3) Daisuke RYUZAKI

280, Higashikoigakubo 1-chome,  
Kokubunji-shi, Tokyo 185-8601 Japan

hereinafter called assignor(s), have invented certain improvements in  
**SLURRY, POLISHING LIQUID SET, POLISHING LIQUID, METHOD FOR POLISHING SUBSTRATE, AND SUBSTRATE**

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless  
 otherwise indicated below:

Whereas filed on \_\_\_\_\_, Serial No. \_\_\_\_\_; and

**HITACHI CHEMICAL COMPANY, LTD.**1-1, Nishi-Shinjuku 2-chome,  
Shinjuku-ku, Tokyo 163-0449 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States  
 patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is  
 hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign,  
 transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to  
 this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States  
 which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of  
 Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and  
 assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with  
 assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal  
 proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or  
 desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional,  
 continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its  
 successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being  
 understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and  
 assigns.

INVENTORSDATE SIGNED

1): Tomohiro Iwano  
 Name: Tomohiro IWANO

Jun. 15, 2012

2): Takenori Narita  
 Name: Takenori NARITA

Jun. 28, 2012

3): Daisuke Ryuzaki  
 Name: Daisuke RYUZAKI

Jun. 19, 2012