

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the original electronic Cover Sheet, the 2nd. inventor's name is misspelled, previously recorded on Reel 027390 Frame 0921. Assignor(s) hereby confirms the Assignment.										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Tatsuya MAKINO</td> <td>12/02/2011</td> </tr> <tr> <td>Toshihiko TAKASAKI</td> <td>12/02/2011</td> </tr> <tr> <td>Masami OCHIAI</td> <td>12/02/2011</td> </tr> <tr> <td>Atsushi TAKAHASHI</td> <td>12/02/2011</td> </tr> </tbody> </table>		Name	Execution Date	Tatsuya MAKINO	12/02/2011	Toshihiko TAKASAKI	12/02/2011	Masami OCHIAI	12/02/2011	Atsushi TAKAHASHI	12/02/2011
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Tatsuya MAKINO	12/02/2011										
Toshihiko TAKASAKI	12/02/2011										
Masami OCHIAI	12/02/2011										
Atsushi TAKAHASHI	12/02/2011										
RECEIVING PARTY DATA											
Name:	Hitachi Chemical Company, Ltd.										
Street Address:	1-1, Nishi-Shinjuku 2-chome										
Internal Address:	Shinjuku-ku										
City:	Tokyo										
State/Country:	JAPAN										
Postal Code:	1630449										
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>13266857</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13266857						
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Application Number:	13266857										
CORRESPONDENCE DATA											
Fax Number:	(703)312-6666										
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Address Line 4:	Arlington, VIRGINIA 22209										
ATTORNEY DOCKET NUMBER:	396.51775X00										
<b>PATENT</b>											

NAME OF SUBMITTER:

William I. Solomon

Total Attachments: 7

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**PATENT ASSIGNMENT**

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 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	<b>CORRECTIVE ASSIGNMENT</b>
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the original electronic Cover Sheet, the first inventor's execution date, previously recorded on Reel 027385 Frame 0320. Assignor(s) hereby confirms the Assignment.

**CONVEYING PARTY DATA**

Name	Execution Date
Tatsuya MAKINO	12/02/2011
Tohiko TAKASAKI	12/02/2011
Masami OCHIAI	12/02/2011
Atsushi TAKAHASHI	12/02/2011

**RECEIVING PARTY DATA**

<b>Name:</b>	Hitachi Chemical Company, Ltd.
<b>Street Address:</b>	1-1, Nishi-Shinjuku 2-chome
<b>Internal Address:</b>	Shinjuku-ku
<b>City:</b>	Tokyo
<b>State/Country:</b>	JAPAN
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**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	13266857

**CORRESPONDENCE DATA**

Fax Number: (703)312-6666  
 Phone: 7033126600  
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*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*  
 Correspondent Name: Antonelli, Terry, Stout & Kraus, LLP  
 Address Line 1: 1300 N. 17th Street  
 Address Line 2: Suite 1800  
 Address Line 4: Arlington, VIRGINIA 22209

**ATTORNEY DOCKET NUMBER:** 396.51775X00

OP \$40.00 13266857

# ASSIGNMENT

ATTY. DOCKET NO.:

396.51775X00

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement relating to

RESIN COMPOSITION FOR FORMING OPTICAL WAVEGUIDE, RESIN FILM FOR FORMING OPTICAL WAVEGUIDE,  
AND OPTICAL WAVEGUIDE

for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.

for which U.S. Application No. \_\_\_\_\_ for Letters Patent was filed in the U.S. Patent and Trademark Office on \_\_\_\_\_

for which an International Application was filed on April 28, 2010 as PCT/JP2010/057633, designating the United States.

AND WHEREAS  
Hitachi Chemical Company, Ltd.  
1-1, Nishi-Shinjuku 2-chome, Shinjuku-ku,  
Tokyo 1630449 Japan

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all divisions and continuations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Antonelli, Terry, Stout, Kraus, LLP the power to insert on this assignment any further identification which 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 TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.

201	FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
	Tatsuya MAKINO	<i>Tatsuya Makino</i>	DEC. - 2. 2011
202	FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	Toshihiko TAKASAKI	<i>Toshihiko Takasaki</i>	DEC. - 2. 2011
203	FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	Masami OCHIAI	<i>Masami Ochiai</i>	DEC. - 2. 2011
204	FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	Atsushi TAKAHASHI	<i>Atsushi Takahashi</i>	DEC. - 2. 2011
205	FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
206	FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

PATENT