

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>Hong Li</td> <td>03/12/2012</td> </tr> <tr> <td>James C. Watson</td> <td>03/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hong Li	03/12/2012	James C. Watson	03/14/2012
Name	Execution Date						
Hong Li	03/12/2012						
James C. Watson	03/14/2012						
RECEIVING PARTY DATA							
Name:	PPG Industries Ohio, Inc.						
Street Address:	3800 West 143rd Street						
City:	Cleveland						
State/Country:	OHIO						
Postal Code:	44111						
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>13365590</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13365590		
Property Type	Number						
Application Number:	13365590						
CORRESPONDENCE DATA							
Fax Number:	(336)607-7500						
Phone:	336/607-7300						
Email:	lsmith@kilpatricktownsend.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	Jason Link - Kilpatrick Townsend						
Address Line 1:	1001 West Fourth Street						
Address Line 4:	Winston-Salem, NORTH CAROLINA 27101						
ATTORNEY DOCKET NUMBER:	32961/830982						
NAME OF SUBMITTER:	Laura J. Smith						
<p>Total Attachments: 4 source=Assignment830982#page1.tif source=Assignment830982#page2.tif source=Assignment830982#page3.tif source=Assignment830982#page4.tif</p>							

OP \$40.00 13365590

ASSIGNMENT

IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending to be legally bound hereby, we **HONG LI** of Sewickley, Pennsylvania and **JAMES C. WATSON** of Lake Wylie, South Carolina do hereby sell, assign and set over unto PPG INDUSTRIES OHIO, INC., the entire right, title and interest in and to our invention of improvements in

GLASS COMPOSITIONS AND FIBERS MADE THEREFROM

which is found in United States Patent Application Serial No. 13/365,590, filed on February 3, 2012, in and for the United States and all foreign countries, the same to be held and enjoyed by PPG INDUSTRIES OHIO, INC., its successors, assigns, or legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND WE HEREBY AUTHORIZE PPG INDUSTRIES OHIO, INC., to make application for and to receive Letters Patent for said invention in any or all foreign countries in its own name, or in any name, at its election.

AND WE HEREBY COVENANT AND AGREE that we will execute or procure any further necessary assurance of the title to said invention and Letters Patent; and that we will at any time, upon the request and at the expense of PPG INDUSTRIES OHIO, INC., execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor, in PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives, and that we will, at any time, upon the request and at the expense of PPG INDUSTRIES OHIO, INC., testify in any legal proceeding, sign all lawful papers, execute any additional, divisional, continuing or reissue applications for patents for said invention, or any part or

parts thereof, make all rightful oaths and generally do all lawful acts to aid PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives to obtain and enforce patent protection on said invention in all countries, without further compensation, but at the expense of PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives.

AND WE HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said invention, or resulting from said application, or from any division, reissue, or extension thereof, to PPG INDUSTRIES OHIO, INC., as sole assignee.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals.

HONG LI

SWORN TO AND SUBSCRIBED TO
BEFORE ME this ____ day of
_____, 2012

Notary Public

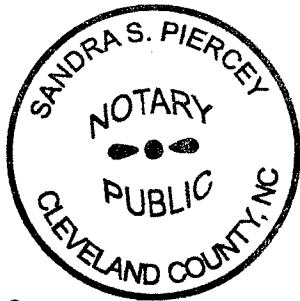
[Handwritten Signature]

JAMES C. WATSON

SWORN TO AND SUBSCRIBED TO
BEFORE ME this 14th day of
March, 2012

[Handwritten Signature]

Notary Public



My Commission expires: May 22, 2016

ASSIGNMENT

IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending to be legally bound hereby, we **HONG LI** of Sewickley, Pennsylvania and **JAMES C. WATSON** of Lake Wylie, South Carolina do hereby sell, assign and set over unto PPG INDUSTRIES OHIO, INC., the entire right, title and interest in and to our invention of improvements in

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AND WE HEREBY AUTHORIZE PPG INDUSTRIES OHIO, INC., to make application for and to receive Letters Patent for said invention in any or all foreign countries in its own name, or in any name, at its election.

AND WE HEREBY COVENANT AND AGREE that we will execute or procure any further necessary assurance of the title to said invention and Letters Patent; and that we will at any time, upon the request and at the expense of PPG INDUSTRIES OHIO, INC., execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor, in PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives, and that we will, at any time, upon the request and at the expense of PPG INDUSTRIES OHIO, INC., testify in any legal proceeding, sign all lawful papers, execute any additional, divisional, continuing or reissue applications for patents for said invention, or any part or

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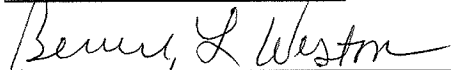
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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals.



HONG LI

SWORN TO AND SUBSCRIBED TO
BEFORE ME this 12th day of
MARCH, 2012


Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Beverly L. Weston, Notary Public
Harmar Twp., Allegheny County
My Commission Expires March 4, 2014
Member, Pennsylvania Association of Notaries

JAMES C. WATSON

SWORN TO AND SUBSCRIBED TO
BEFORE ME this ____ day of
_____, 2012

Notary Public