

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Songwei Lu</td> <td>04/29/2010</td> </tr> <tr> <td>James W. McCamy</td> <td>04/30/2010</td> </tr> <tr> <td>James J. Finley</td> <td>05/04/2010</td> </tr> </tbody> </table>		Name	Execution Date	Songwei Lu	04/29/2010	James W. McCamy	04/30/2010	James J. Finley	05/04/2010		
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RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>PPG INDUSTRIES OHIO, INC.</td> </tr> <tr> <td>Street Address:</td> <td>3800 West 143rd Street</td> </tr> <tr> <td>City:</td> <td>Cleveland</td> </tr> <tr> <td>State/Country:</td> <td>OHIO</td> </tr> <tr> <td>Postal Code:</td> <td>44111</td> </tr> </table>		Name:	PPG INDUSTRIES OHIO, INC.	Street Address:	3800 West 143rd Street	City:	Cleveland	State/Country:	OHIO	Postal Code:	44111
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CORRESPONDENCE DATA											
<p>Fax Number: (412)434-4292</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 412-434-4645</p> <p>Email: sadams@ppg.com</p> <p>Correspondent Name: PPG INDUSTRIES INC INTELLECTUAL PROPERTY</p> <p>Address Line 1: ONE PPG PLACE</p> <p>Address Line 4: PITTSBURGH, PENNSYLVANIA 15272</p>											
ATTORNEY DOCKET NUMBER:	074975A1										
NAME OF SUBMITTER:	Andrew C. Siminerio, Reg. No. 30803										
<p>Total Attachments: 4</p> <p>source=074975A1Assignment#page1.tif</p> <p>source=074975A1Assignment#page2.tif</p>											

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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,

<u>NAME</u>	<u>CITY</u>	<u>COUNTY</u>	<u>STATE/COUNTRY</u>
Songwei Lu	Wexford	Allegheny	Pennsylvania
James W. McCamy	Export	Westmoreland	Pennsylvania
James J. Finley	Pittsburgh	Allegheny	Pennsylvania

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

**A METHOD OF DEPOSITING NIOBIUM DOPED TITANIA FILM ON A SUBSTRATE
AND THE COATED SUBSTRATE MADE THEREBY**

as set forth in our application for Letters Patent of the United States of America, executed by

Songwei Lu, on the 29th day of April, 2010;
James W. McCamy, on the 30th day of April, 2010; and
James J. Finley, on the 4th day of May, 2010;

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.

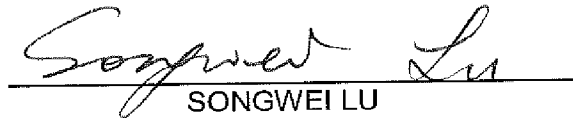
AND WE HEREBY AUTHORIZE PPG INDUSTRIES OHIO, INC., to make application for and to receive Letters Patent for said invention in any or all foreign countries in its own name, or in any name, at its election.

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.

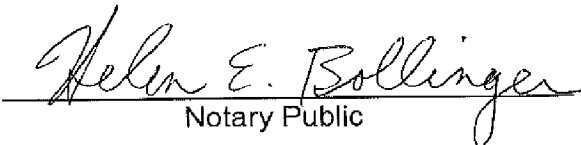
IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals.


SONGWEI LU

STATE OF Pennsylvania)
County of Allegheny)

SS

On this 29th day of April, 2010 appeared before me in person the above SONGWEI LU and acknowledged the above to be his/her signature, and that s/he signed, sealed and delivered the above instrument as his/her voluntary act and deed and for the purposes herein set forth.

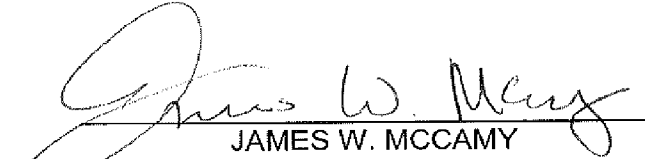

Notary Public

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Helen E. Bollinger, Notary Public
Monroeville Boro, Allegheny County
My Commission Expires Jan. 6, 2011


Member, Pennsylvania Association of Notaries


JAMES W. MCCAMY

STATE OF Pennsylvania)
County of Allegheny)

SS

On this 30th day of April, 2010 appeared before me in person the above JAMES W. MCCAMY, and acknowledged the above to be his/her signature, and that s/he signed, sealed and delivered the above instrument as his/her voluntary act and deed and for the purposes herein set forth.


Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Deborah Almsey, Notary Public
Harmar Township, Allegheny County
My Commission Expires Nov. 2, 2011
Member, Pennsylvania Association of Notaries

JAMES J. FINLEY

STATE OF)
County of)

SS

On this _____ day of _____, 2010 appeared before me in person the above JAMES J. FINLEY, and acknowledged the above to be his/her signature, and that s/he signed, sealed and delivered the above instrument as his/her voluntary act and deed and for the purposes herein set forth.


Notary Public

JAMES W. MCCAMY

STATE OF)
)
County of) SS

On this _____ day of _____, 2010 appeared before me
in person the above JAMES W. MCCAMY, and acknowledged the above to be his/her
signature, and that s/he signed, sealed and delivered the above instrument as his/her
voluntary act and deed and for the purposes herein set forth.

Notary Public


JAMES J. FINLEY

STATE OF)
)
County of) SS

On this _____ day of _____, 2010 appeared before me
in person the above JAMES J. FINLEY, and acknowledged the above to be his/her
signature, and that s/he signed, sealed and delivered the above instrument as his/her
voluntary act and deed and for the purposes herein set forth.

Notary Public