

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Alan E. Wang</td><td>01/14/2008</td></tr><tr><td>Kevin C. Olson</td><td>01/14/2008</td></tr><tr><td>Michael J. Pawlik</td><td>01/14/2008</td></tr></tbody></table>		Name	Execution Date	Alan E. Wang	01/14/2008	Kevin C. Olson	01/14/2008	Michael J. Pawlik	01/14/2008
Name	Execution Date								
Alan E. Wang	01/14/2008								
Kevin C. Olson	01/14/2008								
Michael J. Pawlik	01/14/2008								
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>11972671</td></tr></tbody></table>		Property Type	Number	Application Number:	11972671				
Property Type	Number								
Application Number:	11972671								
CORRESPONDENCE DATA									
Fax Number: (412)434-4292 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone: 412-434-2931									
Email: schreck@ppg.com									
Correspondent Name: Diane R. Meyers									
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Address Line 2: PPG Industries, Inc.									
Address Line 4: PITTSBURGH, PENNSYLVANIA 15272									
ATTORNEY DOCKET NUMBER:	075337A1								
NAME OF SUBMITTER:	Diane R. Meyers								
Total Attachments: 3 source=075337A1_Assignment#page1.tif									

CH \$40.00 11972671

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PATENT  
REEL: 020366 FRAME: 0564



## 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>
Alan E. Wang	Pittsburgh	Allegheny	Pennsylvania/USA
Kevin C. Olson	Wexford	Allegheny	Pennsylvania/USA
Michael <del>L.</del> Pawlik J. Engle	Glenshaw	Allegheny	Pennsylvania/USA

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

### **CIRCUIT BOARD HAVING AN ELECTRODEPOSITED COATING ON A CONDUCTIVE CORE WITHIN A VIA AND METHOD OF MAKING SAME**

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

Alan E. Wang, on the 14 day of January, 2008,  
Kevin C. Olson, on the 14<sup>th</sup> day of January, 2008,  
Michael ~~L.~~ Pawlik, on the 14<sup>th</sup> day of JANUARY, 2008  
J. Engle

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.

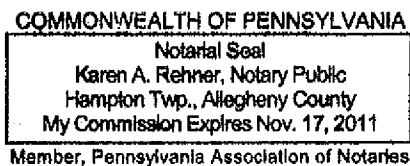
AND WE HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said invention, or resulting from said application, or from any division, reissue, or extension thereof, to **PPG INDUSTRIES OHIO, INC.**, as sole assignee.

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

  
ALAN E. WANG

On this 14<sup>th</sup> day of January, 2008, appeared before me in person the above **ALAN E. WANG**, and acknowledged the above to be his/her signature, and that he/she signed, sealed and delivered the above instrument as his voluntary act and deed and for the purposes herein set forth.

  
Notary Public



Kevin C. Olson  
KEVIN C. OLSON

On this 14<sup>th</sup> day of January, 2008, appeared before me in person the above **KEVIN C. OLSON**, and acknowledged the above to be his/her signature, and that he/she signed, sealed and delivered the above instrument as his voluntary act and deed and for the purposes herein set forth.

Karen A. Rehner  
Notary Public

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Karen A. Rehner, Notary Public  
Hampton Twp., Allegheny County  
My Commission Expires Nov. 17, 2011  
Member, Pennsylvania Association of Notaries

Michael J. Pawlik  
MICHAEL J. PAWLIK *angp*

On this 14<sup>th</sup> day of January, 2008, appeared before me in person the above **MICHAEL J. PAWLIK**, and acknowledged the above to be his signature, and that he signed, sealed and delivered the above instrument as his voluntary act and deed and for the purposes herein set forth.

Karen A. Rehner  
Notary Public

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Karen A. Rehner, Notary Public  
Hampton Twp., Allegheny County  
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