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PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks:

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Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Dennis J. O'Shaughnessy

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ X ☐ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other _____

Execution Date(s) September 10, 19992. ~~OFFER OF FINANCE~~ of receiving party(ies):Name: PPG INDUSTRIES OHIO, INC.

Internal Address: _____

Street Address: 3800 West 143rd StreetCity: Cleveland State: OH ZIP: 44111

Additional name(s) & address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No. (s) 09/334,193

B. Patent No. (s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: PPG INDUSTRIES, INC.Internal Address: INTELLECTUAL PROPERTY DEPARTMENT
39TH FLOORStreet Address: One PPG PlaceCity: Pittsburgh State: PA ZIP: 15272

6. Total number of applications and patents involved:

17. Total fee (37 CFR 3.41):\$ \$40.00☐ Enclosed☒ X Authorized to be charged to deposit account8. Deposit account number: 16-2025

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kenneth J. Stachel
Name of Person Signing

Signature

September 13, 1999
DateTotal number of pages including cover sheet, attachments and document 3

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PATENT
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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 Pittsburgh, Pennsylvania, and intending to be legally bound hereby, I, Dennis J. O'Shaughnessy of Allison Park, County of Allegheny and Commonwealth of Pennsylvania do hereby sell, assign and set over unto PPG INDUSTRIES OHIO, INC., the entire right, title and interest in and to my invention of improvements in

PROTECTIVE LAYERS FOR SPUTTER COATED ARTICLE

as set forth in my application for Letters Patent of the United States of America, executed by Dennis J. O'Shaughnessy on the 10th day of September, 1999, 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 me if this assignment and sale had not been made.

AND I 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 I HEREBY COVENANT AND AGREE that I will execute or procure any further necessary assurance of the title to said invention and Letters Patent; and that I 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 I 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 I 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, I have hereunto set my hand and affixed my seal.


DENNIS J. O'SHAUGHNESSY

COMMONWEALTH OF PENNSYLVANIA)) SS
County of Allegheny)

On this 10TH day of SEPTEMBER, 1999,
appeared before me in person the above Dennis J. O'Shaughnessy 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.


Notary Public

Notarial Seal
Betty A. Beestrice, Notary Public
Harmer Twp., Allegheny County
My Commission Expires Feb. 16, 2002
Member, Pennsylvania Association of Notaries