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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Chun Christine Dong Wayne Thomas McDermott Richard E. Patrick Alexander Schwarz Additional name(s) of conveying party(ies) attached? [] Yes [x] No 7-26-04

2. Name and address of receiving party(ies): Name: Air Products and Chemicals, Inc. Internal Address: Patent Department Street Address: 7201 Hamilton Boulevard City Allentown State PA ZIP 18195-1501 Additional name(s) & address(es) attached? [] Yes [x] No

3. Nature of Conveyance: [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: 8 April 2004; 8 April 2004; 8 April 2004; 8 April 2004

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: 8 April 2004 A. Patent Application No.(s) 10/819,277 B. Patent No.(s) Additional numbers attached? [] Yes [x] No

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 [] Enclosed [x] Authorized to be charged to deposit account 8. Deposit account number: 01-0493

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Ruth Ann Borst Legal Assistant Internal Address: Patent Department (06320P USA) Street Address: 7201 Hamilton Boulevard City Allentown State PA ZIP 18195-1501

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 [] Enclosed [x] Authorized to be charged to deposit account 8. Deposit account number: 01-0493

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9. Statement of 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. Rosaleen P. Morris-Oskanian, Reg. No. 47,321 Signature Date 7-22-04 Name, Reg. No. of Person Signing Signature Date Total number of pages comprising cover sheet: 1

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PATENT REEL: 015597 FRAME: 0161

ASSIGNMENT

For value received, we, Chun Christine Dong, Wayne Thomas McDermott, Richard E. Patrick, and Alexander Schwarz, hereby sell, assign, and transfer to **AIR PRODUCTS AND CHEMICALS, INC.**, a corporation of the State of Delaware, having an office at 7201 Hamilton Boulevard, Allentown, PA 18195-1501, the entire right, title, and interest in and to the invention relating to

APPARATUS AND METHOD FOR REMOVAL OF SURFACE OXIDES VIA FLUXLESS TECHNIQUE INVOLVING ELECTRON ATTACHMENT AND REMOTE ION GENERATION

described in our application for Letters Patent of the United States (identified by Docket No. 06320P USA) executed of even date herewith, in and to all Letters Patent which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patent upon said invention or improvements which may be granted in foreign countries. We hereby also assign and convey to said **AIR PRODUCTS AND CHEMICALS, INC.**, all the rights accruing to us by virtue of the International Convention for the Protection of Industrial Property (Art. 4), including the right to apply for and to have patents issued in its own name.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Officials of the Patent Offices of all other countries to issue the Letters Patent of their respective countries to said **AIR PRODUCTS AND CHEMICALS, INC.**, as assignee of the entire right, title, and interest in and to the same.

And we hereby promise and agree to execute all papers and perform all acts necessary to secure to and vest in said **AIR PRODUCTS AND CHEMICALS, INC.**, its successors and assigns, the rights conveyed as herein set forth.

Chun Christine Dong (L.S.)
Chun Christine Dong
April 8, 2004
Date

Wayne Thomas McDermott (L.S.)
Wayne Thomas McDermott
April 8, 2004
Date

Richard E. Patrick (L.S.)
Richard E. Patrick
April 8/2004
Date

Alexander Schwarz (L.S.)
Alexander Schwarz
April 8, 2004
Date