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102607292

To the Honorable Commissioner of Patents and

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the attached original documents or copy thereof.

1. Name of conveying party(ies):
Michael Francis Carolan
Matthew James Watson
Eric Minford
Stephen Andrew Motika
Dale M. Taylor

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) of conveying party(ies) attached? Yes No

Additional name(s) & address(es) attached? Yes No

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: **1) 11/4/03; 2) 11/4/03; 3) 11/4/03;**

4) 11/14/03; 5) 11/10/03

4. Application number(s) or patent number(s): **101714996**
If this document is being filed together with a new application, the execution date of the application is: **1) 11/4/03; 2) 11/4/03;**
3) 11/4/03; 4) 11/14/03; 5) 11/10/03

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: **Dianne K. Moser**
Legal Assistant

Internal Address: **Patent Department (06355 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
 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.

John M. Fernbacher, Reg. No. 32,895
Name, Reg. No. of Person Signing

Signature

14 November 2003
Date

Total number of pages comprising cover sheet: **1**

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DOCUMENT4

11/21/2003 6TDM11 00000084 010493 10714996
01 FC:8021 40.00 BA

PATENT
REEL: 014711 FRAME: 0287

ASSIGNMENT

For value received, we, Michael Francis Carolan, Matthew James Watson, Eric Minford, Stephen Andrew Motika, Dale M. Taylor, 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

CONTROLLED HEATING AND COOLING OF MIXED CONDUCTING METAL OXIDE MATERIALS

described in our application for Letters Patent of the United States (identified by Docket No. 06355 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.

Michael Francis Carolan (L.S.)
Michael Francis Carolan
4 November 2003
Date

Matthew James Watson (L.S.)
Matthew James Watson
4 November, 2003.
Date

Eric Minford (L.S.)
Eric Minford
4 NOVEMBER 2003
Date

Stephen Andrew Motika (L.S.)
Stephen Andrew Motika
14 NOVEMBER 2003
Date

Dale M Taylor (L.S.)
Dale M. Taylor
10 - November - 2003
Date