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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):

**Darryl Paul Butt
Raymond Ashton Cutler
Steven Walton Rynders
Michael Francis Carolan**Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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 ☒ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: **(1) 20 May 2003; (2) 23 May 2003;
(3) 28 May 2003; (4) 9 June 2003**4. Application number(s) or patent number(s): **10/393,954 03/21/2003**If this document is being filed together with a new application, the execution date of the application is: **(1) 20 May 2003, (2) 23 May 2003, (3) 28 May 2003 and (4) 9 June 2003**

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 (06272 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.***Keith D. Gourley, Reg. No. 32,988**

Name, Reg. No. of Person Signing

Signature

26 June 2003

Date

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

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**PATENT
REEL: 014214 FRAME: 0315**

ASSIGNMENT

For value received, we, Darryl Paul Butt, Raymond Ashton Cutler, Steven Walton Rynders and Michael Francis Carolan, 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

**METHOD OF JOINING ITM MATERIALS USING A PARTIALLY
OR FULLY-TRANSIENT LIQUID PHASE**

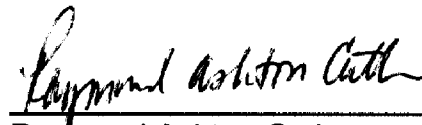
described in our application for Letters Patent of the United States (identified by Docket No. 06272 USA) executed of even date herewith, in and to all Letters Patent which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patent 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.

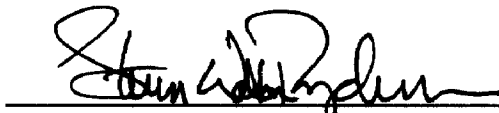
And we hereby promise and agree to execute all papers and perform all acts necessary to secure to and vest in said **AIR PRODUCTS AND CHEMICALS, INC.**, its successors and assigns, the rights conveyed as herein set forth.

 (L.S.)
Darryl Paul Butt

20 May 03
Date

 (L.S.)
Raymond Ashton Cutler

23 May 2003
Date

 (L.S.)
Steven Walton Rynders

28 May 2003
Date

 (L.S.)
Michael Francis Carolan

9 June 2003
Date