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1. Name of conveying party(ies):

Richard Paul Underwood**Hong-Xin Li**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
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Execution Date: **10/25/99 and 10/29/99**

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: **10/25/99 and 10/29/99**

A. Patent Application No.(s)

B. Patent No.(s)

09/431912Additional numbers attached? ☐ Yes ☒ No

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

Name: **Dianne K. Moser**
Legal AssistantInternal Address: **Patent Department (173PUS05911)**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
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*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.***Mary E. Bongiorno, Reg. No. 36,091**

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PATENT
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ASSIGNMENT

For value received, we, Richard Paul Underwood and Hong-Xin Li, 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

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described in our application for Letters Patent of the United States (identified by Docket No. 173PUS05911) 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.

Richard Paul Underwood (L.S.)
Richard Paul Underwood

29 October 1999

Date

Hong-Xin Li (L.S.)
Hong-Xin Li

October 25, 1999

Date