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FORM PTO-1595

(Rev. 03/01)

OMB No. 0651-0011 (exp. 5/31/2002)

U.S. DEPARTMENT OF COMMERCE  
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102166987

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

## 1. Name of conveying party(ies):

Vladimir Yliy Gershtein

Pingping Ma

Steven W. Hoffman

Christopher R. Butler

John Frederick Cirucci

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: 09 July 2002; 10 July 2002; 08 July 2002;  
09 July 2002; and 09 July 2002.

## 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 July 2002

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 (06248 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.

Geoffrey L. Chase, Reg. No. 28,059

Name, Reg. No. of Person Signing

Signature

Date 10 July, 2002

Total number of pages comprising cover sheet: 1

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks  
Box Assignments  
Washington, D.C. 20231

DOCUMENT2

07/23/2002 LUNELLER 00000116 010493 10192481

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**ASSIGNMENT**

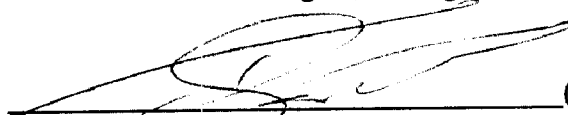
For value received, we, Vladimir Yliy Gershtein, Pingping Ma, Steven W. Hoffman, Christopher R. Butler, and John Frederick Cirucci, hereby sell, assign, and transfer to **AIR PRODUCTS AND CHEMICALS, INC.**, a corporation of the State of Delaware, having an office at 7201 Hamilton Boulevard, Allentown, PA 18195-1501, the entire right, title, and interest in and to the invention relating to

**VESSEL WITH OPTIMIZED PURGE GAS FLOW AND METHOD USING SAME**

described in our application for Letters Patent of the United States (identified by Docket No. 06248 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.)  
Vladimir Yliy Gershtein


09 July 2002  
Date

 (L.S.)  
Steven W. Hoffman

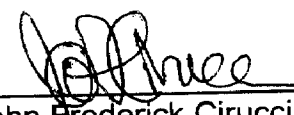
08 July 2002  
Date

Pingping Ma (L.S.)  
Pingping Ma

10 July 2002  
Date

 (L.S.)  
Christopher R. Butler

09 JULY 2002  
Date

 (L.S.)  
John Frederick Cirucci

July 9, 2002  
Date