

08-07-1998



100787853

8-4-98

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

1. Name of conveying party(ies):

Wenchang Ji, Arthur I. Shirley, Atul M. Athalye and Piotr J. Sadkowski

Additional name(s) of conveying party(ies) attached?  Yes  
 No

2. Name and address of receiving party(ies):

Name: The BOC Group, Inc.

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

575 Mountain Avenue, Murray Hill

City: New Providence State: NJ ZIP: 07974

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

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other \_\_\_\_\_
- Merger
- Change of Name

Execution Date: June 24th, July 9th and July 27th 1998

SUBMISSION TYPE

NEW

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: \_\_\_\_\_

A. Patent Application No.(s)

USSN 09/081,381 filed 5/19/98

Docket No. 98A269

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: David M. Rosenblum

Internal Address: \_\_\_\_\_

Patent, Trademark & Licensing Department

Street Address: \_\_\_\_\_

100 Mountain Avenue

Murray Hill

City: New Providence State: NJ ZIP: 07974

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:

**02-2865**

08/06/1998 DMGUYEN 00000140 022865 09081381

DO NOT USE THIS SPACE

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40.00 CH

9. Statement and 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.

David M. Rosenblum  
Registration No. 29,341

7/29/98

Date

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

PATENT

REEL: 9361 FRAME: 0070

JOINT ASSIGNMENT  
UNITED STATES PATENT APPLICATION

WHEREAS, WE, **Wenchang Ji**, a citizen of China, **Arthur I. Shirley**, a citizen of the United States; **Atul M. Athalye**, a citizen of India and **Piotr J. Sadkowski**, a citizen of the United Kingdom, residing respectively at

70 Old Dublin Pike, H7, Doylestown, Pennsylvania 18901; USA  
373 New Market Road, Piscataway, New Jersey 08854; USA  
420 River Road, Apartment J10, Chatham, New Jersey 07928; and  
19 Hoagland Court, Bridgewater, New Jersey 08807

have invented certain new and useful improvements in **Method and Apparatus for Purifying Ammonia**, for which we have made application for Letters Patent of the United States, which application may be identified in the United States Patent and Trademark Office as **Serial No. 09/081,381** filed **May 19, 1998** and;

WHEREAS, **The BOC Group, Inc.** a Delaware Corporation having an office at 575 Mountain Avenue, Murray Hill, New Providence, New Jersey 07974 is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said application:

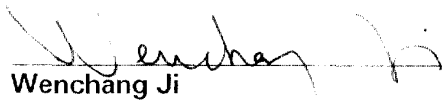
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said **Wenchang Ji, Arthur I. Shirley, Atul M. Athalye and Piotr J. Sadkowski**, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **The BOC Group, Inc.**, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **The BOC Group, Inc.**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

JOINT ASSIGNMENT (cont'd)  
UNITED STATES PATENT APPLICATION

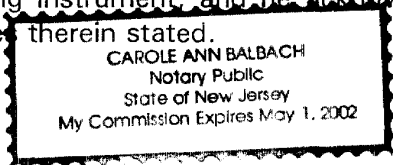
AND WE HEREBY further covenant and agree that we will communicate to the said **The BOC Group, Inc.**, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and generally do everything possible to aid the said **The BOC Group, Inc.**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.


IN TESTIMONY WHEREOF, I hereunto set my hand this 24 day of June 1998.

  
Wenchang Ji

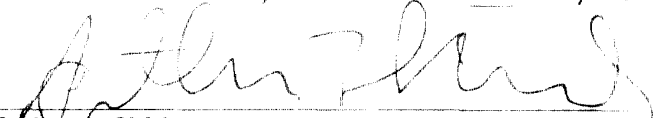
State of: NEW JERSEY  
County of: UNION

On this 24th day of June 1998, before me, personally appeared **Wenchang Ji**, to me know and known to me to be the person described in and who executed the foregoing instrument; and he acknowledged to me that he executed the same for the purpose therein stated.



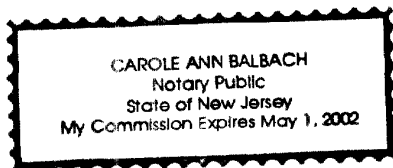
  
Notary Public

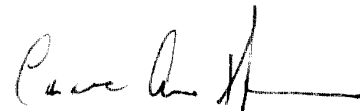
IN TESTIMONY WHEREOF, I hereunto set my hand this 24 day of June 1998.

  
Arthur I. Shirley

State of: NEW JERSEY  
County of: UNION

On this 24th day of June 1998, before me, personally appeared **Arthur I. Shirley** to me know and known to me to be the person described in and who executed the foregoing instrument; and he acknowledged to me that he executed the same for the purposes therein stated.





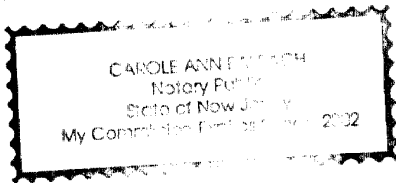
JOINT ASSIGNMENT (cont'd)  
UNITED STATES PATENT APPLICATION

IN TESTIMONY WHEREOF, I hereunto set my hand this 27<sup>th</sup> day of July 1998.

amathalye  
Atul M. Athalye

State of: NEW JERSEY  
County of: UNION

On this 27<sup>th</sup> day of July 1998, before me, personally appeared **Atul M. Athalye** to me know and known to me to be the person described in and who executed the foregoing instrument; and he acknowledged to me that he executed the same for the purposes therein stated.



Carole Ann Balbach  
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand this 9 day of July 1998.

Piotr J. Sadkowski  
Piotr J. Sadkowski

State of: NEW JERSEY  
County of: UNION

On this 9<sup>th</sup> day of July 1998, before me, personally appeared **Piotr J. Sadkowski** to me know and known to me to be the person described in and who executed the foregoing instrument; and he acknowledged to me that he executed the same for the purposes therein stated.

Carole Ann Balbach  
Notary Public

