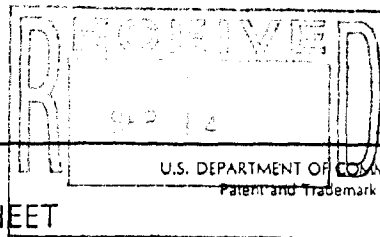


09-21-1998



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ER SHEET

LY

ATTY. DKT. 98A294

MED 9-14-98

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

1. Name of conveying party(ies):

Shain-Jer DOONG
Ian Douglas TRAVIS
Andrew William SHUTTLEWORTH
John R. AMBRIANO
Apurva MAHESHWARY

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 ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Sept. 3, 1998; Sept. 9, 1998;
Execution Date: Aug. 31, 1998

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)

09/122,319
filed July 24, 1998

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Salvatore P. Pace

Internal Address: Patent Dept.

Street Address: The BOC Group, Inc.

100 Mountain Avenue

City: Murray Hill State: NJ ZIP: 07974

6. Total number of applications and patents involved:

ONE

7. Total fee (37 CFR 3.41): \$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number: 02-2865

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Salvatore P. Pace (Regn. No. 30,206)

Name of Person Signing
(908) 771-6242

Salvatore P. Pace

Signature

9/11/98

Date

Total number of pages comprising cover sheet: one

JOINT ASSIGNMENT

WHEREAS, WE, Shain-Jer DOONG, a citizen of Taiwan, Ian Douglas TRAVIS, a citizen of the United States of America and the United Kingdom, Andrew William SHUTTLEWORTH, a citizen of the United Kingdom, John R. AMBRIANO, a citizen of the United States of America, and Apurva MAHESHWARY, a citizen of India

residing, respectively at

11 Rainbow Drive, Millington, New Jersey 07946, USA;
1214 Burrows Drive, Stewartsville, New Jersey 08886, USA;
C32, Cedarbrook, 2350 Route 10 West, Morris Plains, New Jersey 07950, USA;
1917 Box Elder Road, Allentown, Pennsylvania 18103, USA; and
33 Roma Street, Nutley, New Jersey 07110, USA

have invented certain new and useful improvements in

SINGLE VESSEL GAS ADSORPTION SYSTEM AND PROCESS

for which we have made application for Letters Patent of the United States, which application may be identified in the United States Patent Office as Serial No. 09/122,319, filing date July 24, 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 Shain-Jer DOONG, Ian Douglas TRAVIS, Andrew William SHUTTLEWORTH, John R. AMBRIANO and Apurva MAHESHWARY 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.

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.

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 and seal this 3rd day of SEPTEMBER, 1998.

Shain-Jer Doong L.S.
Shain-Jer Doong

State of New Jersey
County of Union ss.:

On this 3rd day of SEPTEMBER, 1998, before me, a Notary Public in the State and County aforesaid, personally appeared **Shain-Jer Doong**, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

GERTRUDE ROTT
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Apr. 15, 2001

Gertrude Rott
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 9th day of September, 1998.

Ian Douglas Travis L.S.
Ian Douglas Travis

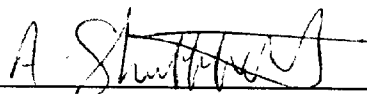
State of New Jersey
County of Union ss.:

On this 9 day of Sept, 1998, before me, a Notary Public in the State and County aforesaid, personally appeared **Ian Douglas Travis**, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

JACQUELIN A. MARSDEN
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires July 16, 2001
ID No. 0043117

Jacqueline A. Marsden
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 31st day of
AUGUST, 1998.



L.S.

Andrew William Shuttleworth

State of New Jersey

SS.:

County of Union

On this 31st day of AUGUST, 1998, before me, a Notary Public in the State and County aforesaid, personally appeared **Andrew William Shuttleworth**, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

GERTRUDE ROTT
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Apr. 15, 2001



Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 9 day of
SEPT., 1998.



L.S.

John R. Ambriano

State of New Jersey

SS.:

County of Union

On this 9th day of SEPTEMBER, 1998, before me, a Notary Public in the State and County aforesaid, personally appeared **John R. Ambriano**, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

GERTRUDE ROTT
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Apr. 15, 2001



Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 9/9/98 day of _____, 1998.

Apurva Maheshwary L.S.
Apurva Maheshwary

State of New Jersey
County of Union ss.:

On this 9th day of SEPTEMBER, 1998, before me, a Notary Public in the State and County aforesaid, personally appeared **Apurva Maheshwary**, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

GERTRUDE ROTT
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Apr. 15, 2001
Gertrude Rott
Notary Public