

Form PTO-1595 (Rev. 01-09)
OMB No. 0651-0027 (exp. 02/28/2009)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

YANAN ANNIE XIA
J. KARL NIERMEYER
ROSARIO MOLLIKA
GREGG T. CONNER

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 01/20/2011, 01/19/2011 & 01/14/2011

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: ENTEGRIS, INC.

Internal Address: _____

Street Address: 129 CONCORD ROAD

City: BILLERICA

State: MA

Country: UNITED STATES Zip: 01821-4600

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

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

12/993,791 (ENTG1984-US)

Additional numbers attached? ☐ Yes ☒ No

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

Name: SPRINKLE IP LAW GROUP

Internal Address: _____

Street Address: 1301 W. 25TH STREET,
SUITE 408

City: AUSTIN

State: TX Zip: 78705

Phone Number: (512) 637-9220

Fax Number: (512) 371-9088

Email Address: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number: 503183

Authorized User Name: Katharina W. Schuster

9. Signature:



Signature

Feb. 24, 2011
Date

KATHARINA W. SCHUSTER
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

9

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 503183 12993791

ATTORNEY DOCKET
ENTG1984-US

PATENT APPLICATION
Serial No. 12/993,791

- 1 of 4 -

ASSIGNMENT

This Assignment is made by **Yanan Annie Xia, of Lynnfield, MA; J. Karl Niermeyer, of Tyngsboro, MA; Rosario Mollica, of Wilmington, MA and Gregg T. Conner of Camas, WA** ("Assignors").

WHEREAS, Assignors have invented a new and useful invention entitled "**GASIFICATION SYSTEMS AND METHODS FOR MAKING BUBBLE FREE SOLUTIONS OF GAS IN LIQUID**", for which an application for United States Patent is made, said application being submitted concurrently herewith; and;

WHEREAS, Assignors believe themselves to be the original inventors of the invention including any and all improvements disclosed in said application ("Invention"); and

WHEREAS, the parties desire to have a recordable instrument assigning the entire right, title and interest in and to said Invention, said application, on any subsequently filed divisional, continuation, continuation-in-part, re-examination, reissue or other application for protection ("Applications"), and any patents, invention registrations or other forms of protection ("Patents") that may be granted for said Invention from any Applications in the United States and throughout the world;

NOW, THEREFORE, in accordance with the obligations to assign the Invention and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby sell, assign, and transfer to **Entegris, Inc.** having a principal place of business at **129 Concord Road Billerica, MA 01821-4600** (hereinafter referred to as "Assignee"), the entire right, title, and interest in and to said Invention, said Applications and any Patents that may be granted for said Invention in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignors agree that, upon request and without further compensation, but at no expense to Assignors, they and/or their legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing the Patents in the United States and throughout the world for said Invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said Invention, said application, and any Patents granted for said Invention in the United States and throughout the world.

ATTORNEY DOCKET
ENTG1984-US

PATENT APPLICATION
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Assignors represent and warrant that they have not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignors authorize and request the Commissioner for Patents of the United States and of all foreign countries to issue any Patents granted for said Invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part, re-examination, reissue or other application, to Assignee, its successors and assigns, as the assignee of the entire interest in said Invention.

IN WITNESS WHEREOF, I hereby set my hand and affix my seal this ____ day of _____, 2011.

Yanan Annie Xia

State of _____)
County of _____) §

On this day and year aforesaid, before me personally appeared _____, known to me to be the person described in and the person who executed the foregoing instrument of assignment and he did acknowledge the same to be his free act and deed.

Signature

Printed Name, Notary Public
My commission expires: _____

ATTORNEY DOCKET
ENTG1984-USPATENT APPLICATION
Serial No. 12/993,791

- 3 of 4 -

IN WITNESS WHEREOF, I hereby set my hand and affix my seal this ____ day of _____, 2011.

J. Karl Niermeyer

State of _____)
County of _____) §

On this day and year aforesaid, before me personally appeared _____, known to me to be the person described in and the person who executed the foregoing instrument of assignment and he did acknowledge the same to be his free act and deed.

Signature

Printed Name, Notary Public
My commission expires: _____

IN WITNESS WHEREOF, I hereby set my hand and affix my seal this 14 day of January, 2011.

Rosario Mollica

State of Massachusetts)
County of Middlesex) §

On this day and year aforesaid, before me personally appeared Rosario Mollica, known to me to be the person described in and the person who executed the foregoing instrument of assignment and he did acknowledge the same to be his free act and deed.

Signature
Maureen Griffin-Stone

Printed Name, Notary Public
My commission expires: April 1, 2016



PATE
REEL: 025848 FRAME 0852

ATTORNEY DOCKET
ENTG1984-US

PATENT APPLICATION
Serial No. 12/993,791

- 4 of 4 -

IN WITNESS WHEREOF, I hereby set my hand and affix my seal this ____ day of
_____, 2011.

Gregg T. Conner

State of _____)
County of _____) §

On this day and year aforesaid, before me personally appeared _____,
known to me to be the person described in and the person who executed the foregoing
instrument of assignment and he did acknowledge the same to be his free act and deed.

Signature

Printed Name, Notary Public
My commission expires: _____

ATTORNEY DOCKET
ENTG1984-US

PATENT APPLICATION
Serial No. 12/993,791

- 1 of 4 -

ASSIGNMENT

Peabody Y.X. Jan 20, 2011

This Assignment is made by **Yanan Annie Xia**, of **Lynnfield, MA**; **J. Karl Niermeyer**, of **Tyngsboro, MA**; **Rosario Mollica**, of **Wilmington, MA** and **Gregg T. Conner** of **Camas, WA** ("Assignors").

WHEREAS, Assignors have invented a new and useful invention entitled "**GASIFICATION SYSTEMS AND METHODS FOR MAKING BUBBLE FREE SOLUTIONS OF GAS IN LIQUID**", for which an application for United States Patent is made, said application being submitted concurrently herewith; and;

WHEREAS, Assignors believe themselves to be the original inventors of the invention including any and all improvements disclosed in said application ("Invention"); and

WHEREAS, the parties desire to have a recordable instrument assigning the entire right, title and interest in and to said Invention, said application, on any subsequently filed divisional, continuation, continuation-in-part, re-examination, reissue or other application for protection ("Applications"), and any patents, invention registrations or other forms of protection ("Patents") that may be granted for said Invention from any Applications in the United States and throughout the world;

NOW, THEREFORE, in accordance with the obligations to assign the Invention and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby sell, assign, and transfer to **Entegris, Inc.** having a principal place of business at **129 Concord Road Billerica, MA 01821-4600** (hereinafter referred to as "Assignee"), the entire right, title, and interest in and to said Invention, said Applications and any Patents that may be granted for said Invention in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignors agree that, upon request and without further compensation, but at no expense to Assignors, they and/or their legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing the Patents in the United States and throughout the world for said Invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said Invention, said application, and any Patents granted for said Invention in the United States and throughout the world.

ATTORNEY DOCKET
ENTG1984-USPATENT APPLICATION
Serial No. 12/993,791

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Assignors represent and warrant that they have not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignors authorize and request the Commissioner for Patents of the United States and of all foreign countries to issue any Patents granted for said Invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part, re-examination, reissue or other application, to Assignee, its successors and assigns, as the assignee of the entire interest in said Invention.


IN WITNESS WHEREOF, I hereby set my hand and affix my seal this 20th day of

Jan, 2011.


Yanan Annie Xia

State of Massachusetts)
County of Middlesex) §

On this day and year aforesaid, before me personally appeared Yanan Annie Xia known to me to be the person described in and the person who executed the foregoing instrument of assignment and he did acknowledge the same to be his free act and deed.


Signature
Noreen Buckley
Printed Name, Notary Public
My commission expires: 10/14/2016

Noreen Buckley
Notary Public
My Commission Expires
October 14, 2016



ATTORNEY DOCKET
ENTG1984-US

PATENT APPLICATION
Serial No. 12/993,791

- 3 of 4 -

IN WITNESS WHEREOF, I hereby set my hand and affix my seal this 19 day of January, 2011.

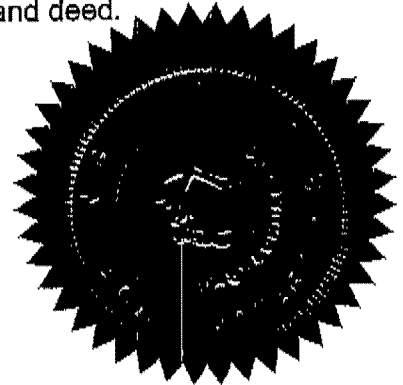
J. Karl Niermeyer
J. Karl Niermeyer

State of Massachusetts)
County of Middlesex) §

On this day and year aforesaid, before me personally appeared J. Karl Niermeyer known to me to be the person described in and the person who executed the foregoing instrument of assignment and he did acknowledge the same to be his free act and deed.

Noreen Buckley
Signature
Noreen Buckley
Printed Name, Notary Public
My commission expires: 10/14/2016

Noreen Buckley
Notary Public
My Commission Expires
October 14, 2016



IN WITNESS WHEREOF, I hereby set my hand and affix my seal this ____ day of _____, 2011.

Rosario Mollica

State of _____)
County of _____) §

On this day and year aforesaid, before me personally appeared _____, known to me to be the person described in and the person who executed the foregoing instrument of assignment and he did acknowledge the same to be his free act and deed.

Signature

Printed Name, Notary Public
My commission expires: _____

ATTORNEY DOCKET
ENTG1984-US

PATENT APPLICATION
Serial No. 12/993,791

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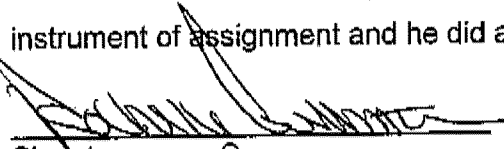
IN WITNESS WHEREOF, I hereby set my hand and affix my seal this 14 day of

Jan., 2011.


Gregg T. Conner

State of Washington)
County of Clark) §

On this day and year aforesaid, before me personally appeared Gregg Conner
known to me to be the person described in and the person who executed the foregoing
instrument of assignment and he did acknowledge the same to be his free act and deed.


Signature
Rochelle Gettmann
Printed Name, Notary Public
My commission expires: 10/18/11

ROCHELLE F. GETTMANN
NOTARY PUBLIC
STATE OF WASHINGTON
COMMISSION EXPIRES
OCTOBER 18, 2011