

Form PTO-1595 (Rev. 08/08)  
OMB No. 0651-0027 (exp. 9/30/2008)

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)**

- 1. Joseph Zahka
- 2. Aiwen Wu

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

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

Name: Entegris, Inc.

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

Street Address: 3500 Lyman Boulevard

City: Chaska

State: MN

Country: US

Zip: 55318

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

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

Execution Date(s) 1, 7/18/2008; 2, 06/18/2008

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

**4. Application or patent number(s):**

This document is being filed together with a new application.

**A. Patent Application No.(s)**

11/919,110

(Attorney Docket No. ENTG1940-US)

**B. Patent No.(s)**

Additional numbers attached?  Yes  No

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

Name: Katharina W. Schuster (Cust. No. 44654)

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

Street Address: 1301 W. 25th Street, Suite 408

City: Austin

State: Texas

Zip: 78705

Phone Number: 512-637-9220

Fax Number: \_\_\_\_\_

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 50-3183

Authorized User Name Katharina W. Schuster

**9. Signature:**

Katharina Schuster  
Signature

Oct. 1, 2008  
Date

Katharina W. Schuster, Reg. 50000  
Name of Person Signing

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

5

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 603183 11919110

ATTORNEY DOCKET  
ENTG1940-US

PATENT APPLICATION

-1-

ASSIGNMENT

This Assignment is made by **Joseph ZAHKA, of Andover, MA, and Aiwen WU, of Malden, MA** ("Assignors").

WHEREAS, Assignors have invented a new and useful invention entitled **METHOD AND APPARATUS FOR TREATING FLUIDS TO REDUCE MICROBUBBLES**, for which an application for United States Letters Patent was made on **October 23, 2007**, bearing an application number of **11/919,110**; 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.**, a Delaware Corporation, having a principal place of business at **3500 Lyman Boulevard, Chaska, MN 55318** (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.

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

**PATENT**  
**REEL: 021629 FRAME: 0301**

ATTORNEY DOCKET  
ENTG1940-US

PATENT APPLICATION

-2-

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 18 day of July, 2008. *JZ*

*Joseph Zahka*  
\_\_\_\_\_  
Joseph Zahka

State of Massachusetts )  
County of Middlesex )ss

On this day and year aforesaid, before me personally appeared Joseph Zahka, 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.

*Deborah Blake Marsilio*  
\_\_\_\_\_  
Signature  
Deborah Blake Marsilio  
Printed Name, Notary Public  
My commissioner expires: 3-22-13



IN WITNESS WHEREOF, I hereby set my hand and affix my seal this \_\_\_ day of \_\_\_\_\_, 2006.

\_\_\_\_\_  
Aiwon Wu

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ )ss

On this day and year aforesaid, before me personally appeared Aiwon Wu, 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 commissioner expires: \_\_\_\_\_

ATTORNEY DOCKET  
ENTG1940-US

PATENT APPLICATION

-1-

ASSIGNMENT

This Assignment is made by **Joseph ZAHKA**, of **Andover, MA**, and **Aiwen WU**, of **Malden, MA** ("Assignors").

WHEREAS, Assignors have invented a new and useful invention entitled **METHOD AND APPARATUS FOR TREATING FLUIDS TO REDUCE MICROBUBBLES**, for which an application for United States Letters Patent was made on **October 23, 2007**, bearing an application number of **11/919,110**; 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.**, a Delaware Corporation, having a principal place of business at **3500 Lyman Boulevard, Chaska, MN 55318** (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.

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

**PATENT**  
**REEL: 021629 FRAME: 0303**

ATTORNEY DOCKET  
ENTG1940-US

PATENT APPLICATION

-2-

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 \_\_\_\_\_, 2008.

\_\_\_\_\_  
Joseph Zahka

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ )ss

On this day and year aforesaid, before me personally appeared Joseph Zahka, 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 commissioner expires: \_\_\_\_\_

IN WITNESS WHEREOF, I hereby set my hand and affix my seal this 18 day of June, 2008.

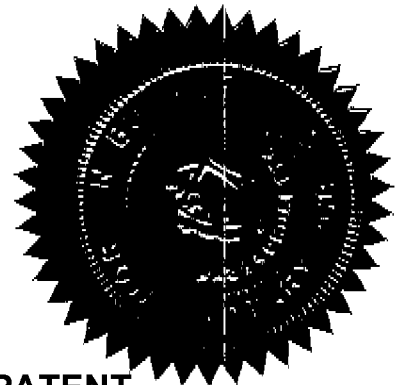
Aiwen Wu  
\_\_\_\_\_  
Aiwen Wu

State of Massachusetts )  
County of Middlesex )ss

On this day and year aforesaid, before me personally appeared Aiwen Wu, 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 commissioner expires: 11/6/09

Noreen Buckley  
Notary Public  
My Commission Expires  
November 6, 2009



PATENT