BOX ASSIGNMENTS Of The Part of	- 06 - 2002 DO NOT USE FOR TRADEMARKS	
	THE PROPERTY OF THE PROPERTY O	
TO THE ASSISTANT COMMOSIONED F PA 1 OF SIR: PLEASE RECORD THE ATTACHED ORIGINAL DUGUMEN	2112772	
	NIS OR COPY THEREOF.	
1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):  (1) Kenneth E. Goodson (2) Chuan-Hua Chen (3) David E. Huber (4) Linan Jiang (5) Thomas W. Kenny (6) Jae-Mo Koo (7) ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHE	(7) Daniel J. Laser 04/04/02 (8) James C. Mikkelsen 04/16/02 (9) Juan G. Santiago 04/09/02 (10) Evelyn Ning-Yi Wang 04/08/02 (11) Shulin Zeng 04/08/02 (12) Lian Zhang 04/15/02 ED? ☐YES ☒NO	
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:. NAME: Board of Trustees of the Leland Stanford Junior Unive	ersity	
ADDRESS: 900 Welch Road, Palo Alto, California 94304		
ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES  3. NATURE OF CONVEYANCE (DOCUMENT):		
document)  ASSIGNMENT OF WHOLE PATENT AP ORIGINAL FACSIMILE/PHOTOCOPY NAME CHANGE VERIFIED TRANSLATION	copies of same Assignment signed by different inventors is one  PLICATION EXEC. DATE: appears next to names above	
SECURITY MERGER OTHER:  EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)		
4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL S		
A. PAT. APP. NO.(S) FILING DATE 1 INVENTOR Serial No. If not in item 1	B. PATENT NO(S) M# 1st INVENTOR If not in item 1	
10/053,859 01/19/02		
Name & Address of Party to Whom Correspondence     Concerning Document Should be Mailed:	6. NUMBER INVOLVED: APPLNS <u>1</u> + PATS <u>0</u> = TOTAL <u>1</u>	
Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard	7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40	
McLean, VA 22102	8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 081013/0269268 S01-175  dup. sheet not required	
STATEMENT AND SIGNATURE. To the best of my knowled	dup, sheet not required	
9. STATEMENT AND SIGNATURE. To the best of my knowled	10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	
Signature		
Reg. No. 32,995 Atty/Sec: DAJ:kms TEL: (650) 233-4500 60270722	Date: May 13, 2002 FAX: (650) 233-4545	

## ASSIGNMENT

## WHEREAS, the undersigned:

- (1) Kenneth E. Goodson, Belmont, California
- (2) Chuan-Hua Chen, Stanford, California
- (3) David E. Huber, Mountain View, California
- (4) Linan Jiang, Menlo Park, California
- (5) Thomas W. Kenny, San Carlos, California
- (6) Jae Mo Koo, Stanford, California
- (7) Daniel J. Laser, San Francisco, California
- (8) James C. Mikkelsen, Los Altos, California
- (9) Juan G. Santiago, Fremont, California
- (10) Evelyn Ning-Yi Wang, Stanford, California
- (11) Shulin Zeng, Sunnyvale, California
- (12) Lian Zhang, Sunnyvale, California

(hereinafter collectively "Assignors") have invented certain new and useful improvements in

## ELECTROOSMOTIC MICROCHANNEL COOLING SYSTEM

for which an application for Letters Patent was filed in the United States Patent & Trademark Office on *January 19, 2002*, bearing *Serial No. 10/053,859*; and

WHEREAS, The Board of Trustees of the Leland Stanford Junior University (hereinafter referred to as the Assignee), a body having corporate powers under the laws of the state of CALIFORNIA, STANFORD, CALIFORNIA 94305, is desirous of obtaining the entire right, title and interest in and to said inventions and said application for Letters Patent, and in and to any Letters Patent, United States or foreign, to be obtained therefor and thereon:

WHEREAS, said Assignors and said Assignee have executed an agreement entitled "Agreement Concerning Rights in Invention."

**NOW**, **THEREFORE**, in consideration of the sum of One Dollar (\$1.00) and for other good and sufficient considerations, the receipt of which is hereby acknowledged:

- 1. The Assignors have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over unto said Assignee, the entire right, title and interest in, to and under said inventions; said application for Letters Patent; any Letters Patent which may be granted for said inventions in the United States of America and any foreign country; any division of said application, continuation of said application, and any continuation-in-part of said application which is subject to said agreement concerning rights in invention; any reissue or extension of said Letters Patent; and all rights under the International Convention for the Protection of Industrial Property; said right, title and interest to be held and enjoyed by said Assignee for its own use and behoove to the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.
- 2. The Assignors hereby jointly and severally warrant and represent that, at the time of execution and delivery of these presents, said Assignors are the joint and lawful owners of the entire right, title and interest in and to said inventions and said application for Letters Patent, and that the same have not entered into any assignment, contract or understanding in conflict herewith.

Page 1 of 6

PATENT REEL: 012947 FRAME: 0092

- 3. Said Assignors hereby jointly and severally covenant and agree to assist and cooperate with said Assignee, whereby said Assignee may enjoy to the fullest extent said right, title and interest herein conveyed, provided, however, that the entire expense which may be incurred by said Assignors in lending such assistance and cooperation be paid by Assignee. Such cooperation shall include: (a) prompt execution of all papers (prepared at the expense of Assignee) which are deemed necessary or desirable by Assignee to perfect said right, title and interest herein conveyed, (b) prompt execution of all petitions, oaths, specifications, declarations and other papers (prepared at the expense of Assignee) which are deemed necessary or desirable by Assignee for filing or prosecuting in the United States or any foreign country said application, any application which is a division of said application, continuation of said application, or any continuation-in-part of said application which is subject to said agreement concerning rights in invention, any reissue application for any Letters Patent granted on said application, or for any interference proceeding involving said application or Letters Patent granted thereon; and (c) prompt assistance and cooperation in the prosecution of all legal proceedings involving said inventions, said application, or Letters Patent granted thereon, including oppositions, cancellation proceedings, priority contests, public use proceedings and court actions.
- 4. The terms, covenants and conditions of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and/or other legal representatives, and shall be binding upon said Assignors, their heirs, legal representatives and assigns.
- 5. The terms, covenants and conditions of this Assignment are subject to the payment of royalty by Assignee to Assignors in accordance with the provisions of said Agreement Concerning Rights in Invention.
- 6. The Assignors hereby request the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States to said Assignee as the assignee of said inventions.

IN WITNESS WHEREOF	said Assignors have executed and delivered this instrument on the respective dates
below.	

Date: 4/9/02

(1) Kenneth E. Goodson

STATE OF CALIFORNIA	)	
	:	S
COUNTY OF CANTA CLADA	1	

COUNTY OF SANTA CLARA

PATRICIA LUCATERO
Commission # 1311356
Notary Public - California
Santa Clara County
My Comm. Expires Jun 30, 2005

On 4109102 \_\_\_\_\_\_, before me personally appeared Kenneth E. Goodson, personally known to me or who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to me that he executed the same in his authorized capacity and that by his signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

Jatricia Rucatero

Date:	04/08/02	(2)
		Chuan Hua Chan

SARA NAKASHIMA
Commission # 1293405
Notary Public - California
Santa Clara County
My Comm. Expires Feb 8, 2005

[SEAL]

Date: 4/11/02



[SEAL]

Date: 4/17/02



[SEAL]

STATE OF CALIFORNIA )
: ss
COUNTY OF SANTA CLARA )

On Arrive 8, 2002, before me personally appeared Chuan-Hua Chen, personally known to me or who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to me that he executed the same in his authorized capacity and that by his signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Sare Nokari

(Signature of Notary)

(3) David E. Huber

STATE OF CALIFORNIA )
: ss
COUNTY OF SANTA CLARA )

On April 11, 2002, before me personally appeared David E. Huber, personally known to me or who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to me that he executed the same in his authorized capacity and that by his signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Patricia Lucatero
(Signature of Notary)

(4) Ling Ling

STATE OF CALIFORNIA

: s.
COUNTY OF SANTA CLARA

On Cor 17 202, before me personally appeared Linan Jiang, personally known to me or who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to

me that he/she executed the same in his authorized capacity and that by his/her signature on the within instrument the person(x), or the entity upon behalf of which the person(s) acted, executed the instrument.

actea, executed the this tune in.

WITNESS my hand and official seal.

(Signature of Notary)

Page 3 of 6

Date:	(5) Thomas W. Kenny
PATRICIA LUCATERO Commission # 1311356 Notary Public - California Santa Clara County My Comm. Expires Jun 30, 2005	STATE OF CALIFORNIA  : ss  COUNTY OF SANTA CLARA  On November 1, 2002, before me personally appeared Thomas W. Kenny, personally known to me or who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to me that he executed the same in his authorized capacity and that by his signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
[SEAL]	WITNESS my hand and official seal.  Actives Austria (Signature of Notary)
Date: 4/12/02	(6) Jae-Mo Koo
PATRICIA LUCATERO Commission # 1311356 Notary Public - California Santa Clara County My Comm. Expires Jun 30, 2005	STATE OF CALIFORNIA  : ss  COUNTY OF SANTA CLARA  )  On April 12, 2002, before me personally appeared Jae-Mo Koo, personally known to me or who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to me that he/she executed the same in his authorized capacity and that by his/her signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.  WITNESS my hand and official seal.
Date: April 4, 2002	(Signature of Notary)  (7)  Daniel J. Laser
	STATE OF CALIFORNIA  : ss  COUNTY OF SANTA CLARA  )  On O4/O4/O2  before me personally appeared Daniel J. Laser, personally known to me or who proved to me on the basis of satisfactory evidence to be
PATRICIA LUCATERO Commission # 1311356 Notary Public - California Santa Clara County My Comm. Expires Jun 30, 2005	the person whose name is subscribed to the within instrument and who acknowledged to me that he executed the same in his authorized capacity and that by his signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.  WITNESS my hand and official seal.
[SFAL]	Patricia Lucatero

(Signature of Notary)

[SEAL]

Date: 4/16/02	James C. Mikkelsen
	STATE OF CALIFORNIA  : ss  COUNTY OF SANTA CLARA )
PATRICIA LUCATERO Commission # 1311356 Notary Public - California Santa Clara County My Comm. Expires Jun 30, 2005	On, before me personally appeared James C. Mikkelsen, personally known to me or who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to me that he executed the same in his authorized capacity and that by his signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
[SEAL]	WITNESS my hand and official seal.  Latura Rucatero (Signature of Notary)
Date:	Juan G. Santiago
PATRICIA LUCATERO Commission # 1311356 Notary Public - California Santa Clara County My Comm. Expires Jun 30, 2005	STATE OF CALIFORNIA  : ss  COUNTY OF SANTA CLARA On 4109102 , before me personally appeared Juan G. Santiago, personally known to me or who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to me that he executed the same in his authorized capacity and that by his signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
[SEAL]	WITNESS my hand and official seal.  Palucia Rucativo (Signature of Notary)
Date: 4/10/2	(10) Auth neways Evelyn Ning-Yi Wang
SARA NAKASHIMA Commission # 1293405 Notary Public - California	STATE OF CALIFORNIA  : ss  COUNTY OF SANTA CLARA  On Pril 0, 2002, before me personally appeared Evelyn Ning-Yi Wang, personally known to me of who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to me that she executed the same in his authorized capacity and that by her signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted,
Santa Clara County My Comm. Expires Feb 8, 2005	executed the instrument.  WITNESS my hand and official seal.
[SEAL]	(Signature of Notary)

Page 5 of 6

Date: 04/08/2002	(11) Shulin Zeng
SARA NAKASHIMA Commission # 1293405 Notary Public - Collifornia \$ Santa Clara County My Comm. Expires Feb 8, 2005	STATE OF CALIFORNIA  : ss  COUNTY OF SANTA CLARA  On April 8,2002, before me personally appeared Shulin Zeng, personally known to me or who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to me that he/sile executed the same in his/her authorized capacity and that by his/her signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.  WITNESS my hand and official seal.
[SEAL] Date: 4/15/2002	Sare- Nalcosti (Signature of Notary)  (12)  Lian Zhang
PATRICIA LUCATERO Commission # 1311356 Jotary Public - California Santa Clara County Jomes Jun 30, 2005	STATE OF CALIFORNIA  SS  COUNTY OF SANTA CLARA  On Axil 15, 2002, before me personally appeared Lian Zhang, personally known to me or who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and who acknowledged to me that ke/she executed the same in his/her authorized capacity and that by his/her signature on the within instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

 $(Signature\ of\ Notary)$ 

[SEAL]

**RECORDED: 05/31/2002**