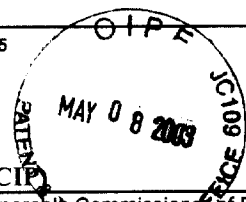


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IME00-007(CIP)

102446230

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

1. Name of conveying party(ies):

S V U S

QUANBO ZOU, UPPILI SRIDHAR, YU CHEN, TIT MING LIM, EMMANUEL SELVANAYAGAM ZACHARIH, TIE YAN

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

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

Name: Institute of Microelectronics

Internal Address:

Street Address:

**11 Science Park Road
Singapore Science Park II,
Singapore 117685**

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

3. Nature of conveyance

- Assignment Merger
- Security Agreement Change of Name
- other _____

Execution Date: 2/18/03

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)

B. Patent No.(s)

6,509,186 1/21/03

Additional numbers attached? Yes No

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

Name: GEORGE O. SAILE
Internal Address: _____

Street Address: 28 DAVIS AVENUE

City: POUGHKEEPSIE State: NY ZIP: 12603

6. Total no. of applications and patents involved: 1

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

Enclosed

Authorized to be charged to deposit acct.

8. Deposit account number: 19-0033

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Name of Person Signing

[Signature]

Signature

5/5/03

Date

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Total number of pages comprising cover sheet: 3

RECORDATION FORM COVER SHEET

2.) Name and adress of receiving party (ies)

Name: **National University of Singapore**

Street Address: **10 Kent Ridge Crescent**

City: **Singapore**

Zip: **119260**

Country: **Singapore**

IME00-007C(CIP)

For U.S. and/or Foreign Rights

For Application or U.S. Patent

By Inventor(s) or Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

QUANBO ZOU
 Type or print name of ASSIGNOR
 ✓ Block 359 #12-83
 Address
 ✓ Yung An Rd, Singapore 610319
 Address
 ✓ P. R. China
 Nationality

UPPILI SRIDHAR
 Type or print name of ASSIGNOR
 ✓ 8 WOODGROVE DR
 Address
 ✓ #11-32 WOODGROVE CONDO SINGAPORE 738210
 Address
 ✓ USA
 Nationality

YU CHEN
 Type or print name of ASSIGNOR
 ✓ 144 Upper Bukit Timah Road
 Address
 ✓ #16-01 Singapore 588177
 Address
 ✓ P. R. China
 Nationality

TIT MENG LIM
 Type or print name of ASSIGNOR
 ✓ 7, Toh Tuck Place
 Address
 ✓ Singapore 59 6783
 Address
 ✓ SINGAPORE
 Nationality

ASSIGNEE:

Institute of Microelectronics
 11 Science Park Road
 Singapore Science Park II
 Singapore 117685
 Singapore
 Nationality

National University of Singapore
 10 Kent Ridge Crescent
 Singapore 119260
 Singapore
 Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- the entire right, title and interest
- an undivided _____ percent (___%) interest for the United States and its territorial possessions
 (check the following box if foreign rights are also to be assigned)
- and in all foreign countries

in and to any and all improvements which are disclosed in the invention entitled:

Miniaturized Thermal Cycler

and which is found in

- (a) U.S. patent application executed on even date herewith
- (b) U.S. patent application executed on _____
- (c) U.S. application serial no. _____ filed on _____
- (d) U.S. patent no. 6,509,186 issued 1/21/03
(also check (e) if foreign application(s) is also being assigned)
- (e) and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I / We have signed this
18 Feb 2003 (Date of signing) ✓

WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.

✓ [Signature]
Signature of ASSIGNOR(S)

✓ [Signature]

✓ [Signature]

✓ [Signature]

If ASSIGNOR is a legal entity complete the following information

Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

Title

Note: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired.

Notarization or Legalization Page Added.

IME00-007C(CIP)

For U.S. and/or Foreign Rights

For Application or U.S. Patent

By Inventor(s) or Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

<u>EMMANUEL SELVANAYAGAM ZACHARIAH</u> Type or print name of ASSIGNOR	<u>TIE YAN</u> Type or print name of ASSIGNOR
<u>1218 RARITAN AVE, APT 5B</u> Address	<u>BIK 413 Pandan Gardens</u> Address
<u>HIGHLAND PARK, NJ 08904</u>	<u># 11-133, Singapore 600413</u>
<u>INDIAN</u> Nationality	<u>Chinese</u> Nationality

ASSIGNEE:

Institute of Microelectronics
11 Science Park Road
Singapore Science Park II
Singapore 117685
Singapore
 Nationality

National University of Singapore
10 Kent Ridge Crescent
Singapore 119260
Singapore
 Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- the entire right, title and interest
- an undivided _____ percent (___%) interest for the United States and its territorial possessions
(check the following box if foreign rights are also to be assigned)
- and in all foreign countries

in and to any and all improvements which are disclosed in the invention entitled:

Miniaturized Thermal Cyclor

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(also check (e) if foreign application(s) is also being assigned)
- (e) and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.

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IN WITNESS WHEREOF, I / We have signed this

12 MARCH 2003 (Date of signing) ✓

WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.

✓ Z. S. Belaa
 ✓ Signature of ASSIGNOR(S)

If ASSIGNOR is a legal entity complete the following information

 Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

 Title

Note: No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired.

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