



Form PTO-1595

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Patent and Trademark Office

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

<p>1. Name of conveying party(ies): <u>12.16.03</u> (1) Institute of Materials Research and Engineering</p> <p>Additional name(s) of conveying parties attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>2. Name and address of receiving parties:</p> <p>Name: <u>Agency for Science Technology and Research</u> Internal Address: _____ Street Address: <u>20 Biopolis Way, #07-01, Centros, Singapore 138668</u> City: _____ State: _____ Zip: _____ Country: _____</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>December 11, 2003</u></p>	<p style="text-align: right;">2003 DEC 16 AM 8:21 OPR/FINANCE</p>

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): 10/014,257 B. Patent No(s): _____

Additional numbers attached? YES NO

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Richard P. Berg Name: <u>LADAS & PARRY</u> Internal Address: _____ Street Address: <u>5670 Wilshire Boulevard, #2100</u> City: <u>Los Angeles</u> State: <u>CA</u> Zip: <u>90036</u></p>	<p>6. Total number of application and patents involved: <input type="checkbox"/> 1</p> <p>7. Total fee 937 CFR 3.41).....\$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed Any additional fees which may be required are <input checked="" type="checkbox"/> Authorized to be charged to deposit account No. <u>12-0415</u></p> <p>8. Deposit account number: _____ (Attach duplicate copy of this page if paying by deposit account)</p>
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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

Richard P. Berg
Name of Person Signing
Reg. No. 28,145

Signature

December 11, 2003
Date

PATENT

Attorney's Docket No. B-4417 619376-2

Patent

For: U.S. and/or Foreign Rights
 For: U.S. Application or U.S. Patent
 For: PCT Application
 By: Inventor(s) or Present Owner

CONFIRMATORY ASSIGNMENT OF INVENTION

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

ASSIGNOR(S):

inventor(s) or person(s) or (1) Institute of Materials Research and Engineering
 entity(ies) who own the (type or print name(s) of ASSIGNOR(S)
 invention)

No. 3, Research Link
Singapore 117602, Singapore
 (Address)

A Singapore Corporation
 (Nationality)

(if assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO, add the following)

Recorded on 04/29/2002
 Reel 012856
 Frame 0701

hereby confirm we sell, assign and transfer to

ASSIGNEE:

Agency for Science, Technology and Research
 (type or print name(s) of ASSIGNEE(S))

20 Biopolis Way, #07-01, Centros
Singapore 138668
 (Address)

Singapore
 (Nationality)

and the successors, assigns and legal representatives of the ASSIGNEE

(Assignment of Invention [16-3]--page 1 of 3)

(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, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

"A METHOD OF FABRICATING A SEMICONDUCTOR STRUCTURE HAVING QUANTUM WIRES AND A SEMICONDUCTOR DEVICE INCLUDING SUCH STRUCTURE"

(check and complete (a), (b), (c) or (d))

and which is found in

(a) U.S. patent application executed on even date herewith

(b) U.S. patent application executed on _____

To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney, as named in the Declaration and Power of Attorney I executed for this invention on the execution date stated above, to insert below the filing date and application number when it becomes known.

(c) U.S. Application serial no. 09/ 10/014,257 filed on December 7, 2001 which application claims priority to Singapore Application No. 200007724-8, filed on December 8, 2000.

(d) International application no. PCT/ _____ / _____

(e) U.S. Patent no. _____ issued _____

A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(f) 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 reissue 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.

(Assignment of Invention [16-3]---page 2 of 3)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal
this 11th day of Dec. 2003 (date of signing).

Institute of Materials Research and
Engineering

By 

Dr. Wong Chia Woan
Assistant Director
Corporate Services
IMRE

(Signature of person authorized to
sign on behalf of ASSIGNOR)

By _____

(Signature of person authorized to
sign on behalf of ASSIGNOR)

(Assignment of Invention [16-3]--page 3 of 3)