


FORM PTO-1595
(Rev. 6-93) RECORDATION FORM COVER SHEET
OMB No. 0651-001 (exp. 4/94)

U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 1016-031

PATENTS ONLY

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

<div>1. Name of conveying party(ies): a. VERMA, Purakh Raj b. CHU, Shao-fu Sanford c. CHAN, Lap d. LI, Jian Xun e. ZHENG, Jia Zhen Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</div>	<div>2. Name and address of receiving party(ies): CHARTERED SEMICONDUCTOR MANUFACTURING LTD. 60 Woodlands Industrial Park D Street 2 Singapore 738406 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</div>
<div>3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement <input type="checkbox"/> Other Execution Date(s): <u>Feb. 9, 2003, Sept. 4, 2003, Sept. 2, 2003, Feb. 9, 2003, Sept. 30, 2003</u></div>	
<div>4. Application number(s) or patent number(s): If this document is being filed together with a new application, execution date of the application is: A. Patent Application No(s). Serial No.: <u>10/683,713</u> Date Filed: <u>10/09/03</u> B. Patent No(s). Additional numbers attached? <u>NO</u></div>	
<div>5. Name and address of party to whom correspondence concerning document should be mailed: Mikio Ishimaru The Law Offices of Mikio Ishimaru 1110 Sunnyvale-Saratoga Rd. Suite A1 Sunnyvale, CA 94087</div>	<div>6. Total number of applications and patents involved: <u>1</u> 7. Total Fee (37 CFR 3.41): <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorization to be charged to deposit account 8. Deposit Account Number: <u>50-0374</u> (Attach duplicate copy of this page if paying by deposit account)</div>
<div>DO NOT USE THIS SPACE</div>	
<div>9. Statement and signature. <i>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.</i> <div><div>Mikio Ishimaru</div><div>Name of Person Signing</div><div></div><div>Signature</div><div>January 19, 2004</div><div>Date</div></div><div>Total number of pages including cover sheet, attachments, and document: <u>6</u></div></div>	

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Mail document to be recorded with required cover sheet information to:
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Director of the U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

CH \$40.00 500374 10683713

Docket No.: 1016-031

ASSIGNMENT

WHEREAS, the undersigned (hereinafter termed Assignor(s)) has/have invented certain new and useful improvements in

HETEROJUNCTION BIPOLAR TRANSISTOR USING REVERSE EMITTER WINDOW

for which a United States patent application has been executed on or before the date of this assignment.

WHEREAS, CHARTERED SEMICONDUCTOR MANUFACTURING LTD., a Corporation of the Republic of Singapore, having a place of business at 60 Woodlands Industrial Park D, Street 2, Singapore 738406, (hereinafter termed Assignee), is desirous of acquiring the entire right, title and interest in and to said application and said invention and improvements thereon, and in and to Letters Patents thereon when granted in the United States and foreign countries.



NOW, THEREFORE, for good and valuable consideration received by said Assignor(s) from said Assignee, the receipt of which is hereby acknowledged by said Assignor(s):


1. Said Assignor(s) does hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest in and to said application and said invention and in and to any and all improvements on said invention and in and to any and all improvements on said invention heretofore or hereafter made or acquired by said Assignor(s); and in and to any and all Letters Patent on said invention and/or said improvements that may be granted in the United States or any foreign country, including each and every Letters Patent granted on any application which is a division, continuation, substitution, renewal, or continuation-in-part of any said application, and in and to each and every reissue or extension of said Letters Patent.
2. Said Assignor(s) hereby covenants and agrees to cooperate with said Assignee where said Assignee may enjoy to the fullest extent the right, title and interest herein conveyed. 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 in it the right, title and interest herein conveyed, (b) prompt execution of all petitions, oaths, specifications or other papers (prepared at the expense of Assignee) which are deemed necessary or desirable by assignee for prosecuting said application, for filing and prosecuting divisional, continuation, substitution, renewal, continuation-in-part, or additional applications in the United States and/or foreign countries covering said invention and/or said improvements, for filing and prosecuting applications for reissuance of letters patent included herein, or for interference proceedings involving said invention and/or said improvements, for assistance and cooperation in the prosecution of interference proceedings involving said invention and/or said improvements and in the adjudication of said Letters Patent, particularly by the disclosure of facts and the production of evidence relating to said invention and/or said improvements, provided the expenses which may be incurred by said Assignor(s) in lending such assistance and cooperation shall be paid by the Assignee.
3. 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 Assignor(s), his/her heirs, legal representatives and assigns.

Docket No.: 1016-031


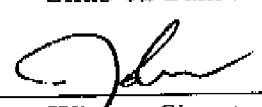
4. Said Assignor(s) hereby warrants and represents that he/she has not entered into any assignment, contract or understanding in conflict herewith.


IN WITNESS WHEREOF, the said Assignor has executed and delivered this instrument on the date set forth below.


 Purakh Raj Verma

 Witness Signature
 SHRESH MANI PANDEY
 Print Witness Name
 02/09/03
 Date

02/09/03
 Date

 Witness Signature
 Shresh Mami Pandey
 Print Witness Name
 02/09/03
 Date

IN WITNESS WHEREOF, the said Assignor has executed and delivered this instrument on the date set forth below.


 Shao-fu Sanford Chu

 Witness Signature
 Chew Kit Wai Johnny
 Print Witness Name
 4/09/03
 Date

sep 4 '03
 Date

 Witness Signature
 P.R. Verma
 Print Witness Name
 4/09/03
 Date

Docket No.: 1016-031

IN WITNESS WHEREOF, the said Assignor has executed and delivered this instrument on the date set forth below.

<u>Lap Chan</u>	<u>Sept 2, 2003</u>
Lap Chan	Date
<u>[Signature]</u>	<u>[Signature]</u>
Witness Signature	Witness Signature
<u>Purakh Raj Verma</u>	<u>NGA YIANG ANN</u>
Print Witness Name	Print Witness Name
<u>3rd Sept 2003</u>	<u>3rd Sept 2003</u>
Date	Date

IN WITNESS WHEREOF, the said Assignor has executed and delivered this instrument on the date set forth below.

<u>Jian Xun Li</u>	<u>02/09/2003</u>
Jian Xun Li	Date
<u>[Signature]</u>	<u>[Signature]</u>
Witness Signature	Witness Signature
<u>SHESH MANI PANDEY</u>	<u>P.R. Verma</u>
Print Witness Name	Print Witness Name
<u>02/09/03</u>	<u>02/09/03</u>
Date	Date

IN WITNESS WHEREOF, the said Assignor has executed and delivered this instrument on the date set forth below.

<u>Zhen Jia Zheng</u>	<u></u>
Zhen Jia Zheng	Date
<u></u>	<u></u>
Witness Signature	Witness Signature
<u></u>	<u></u>
Print Witness Name	Print Witness Name
<u></u>	<u></u>
Date	Date

Docket No.: 1016-031

IN WITNESS WHEREOF, the said Assignor has executed and delivered this instrument on the date set forth below.

<u>Lap Chan</u>	<u>Sep 2, 2003</u>
Lap Chan	Date
<u>[Signature]</u>	<u>[Signature]</u>
Witness Signature	Witness Signature
<u>Puakh Raj Verma</u>	<u>NGA YIANG ANN</u>
Print Witness Name	Print Witness Name
<u>3rd Sept 2003</u>	<u>3rd Sept 2003.</u>
Date	Date

IN WITNESS WHEREOF, the said Assignor has executed and delivered this instrument on the date set forth below.

<u>Jian Xun Li</u>	<u>02/09/2003</u>
Jian Xun Li	Date
<u>[Signature]</u>	<u>[Signature]</u>
Witness Signature	Witness Signature
<u>SAESH MANI PANDEY</u>	<u>P.R. Verma</u>
Print Witness Name	Print Witness Name
<u>02/09/03</u>	<u>02/09/03</u>
Date	Date

IN WITNESS WHEREOF, the said Assignor has executed and delivered this instrument on the date set forth below.

<u>Zhen Jia Zheng</u>	<u>2003. 9. 30.</u>
Zhen Jia Zheng	Date
<u>Alex See</u>	<u>[Signature]</u>
Witness Signature	Witness Signature
<u>ALEX SEE</u>	<u>Jinping Liu</u>
Print Witness Name	Print Witness Name
<u>OCT 5, 2003</u>	<u>10. 5. 2003</u>
Date	Date

The Law Offices of Mikio Ishimaru

Intellectual Property Law
Patents - Licensing - Strategy - & Related Matters
1110 Sunnyvale-Saratoga Road, Suite A1
Sunnyvale, CA 94087
Telephone: (408) 738-0592
Fax: (408) 738-0881

Fax

To: Patent and Trademark
Assignment Office

From: Mikio Ishimaru

Fax: 703-306-5995

Pages: 8

Phone: 703-308-9723

Date: January 19, 2004

Re: U.S. Patent Application Serial CC:
No. 10/683,713

☒ Request for Recordation of Assignment

☐ Information

☐ Other

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For confirmation or assistance, call (408) 738-0881

Dear Assignment Division:

Attached are a Certificate of Transmission, Recordation Cover Sheet, and Assignment, for U.S. Patent Application Serial No. 10/683,713 (attorney docket no. 1016-031).

Respectfully submitted,



Mikio Ishimaru
Reg. No. 27,449

PTO/SB/97 (08-03)

Approved for use through 7/31/2006, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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on January 19, 2004
Date


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Justin Zahrt
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Fax Cover Sheet
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Recordation Form Cover Sheet
Assignment

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Patent and Trademark Office

Attorney Docket No. 1016-031

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9. Statement and signature. <i>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.</i> <table><tr><td><u>Mikio Ishimaru</u> Name of Person Signing</td><td><u>Mikio Ishimaru</u> Signature</td><td><u>January 19, 2004</u> Date</td></tr></table> Total number of pages including cover sheet, attachments, and document: <u>6</u>				<u>Mikio Ishimaru</u> Name of Person Signing	<u>Mikio Ishimaru</u> Signature	<u>January 19, 2004</u> Date
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