

04-09-2002

FORM PTO-1595

(Rev. 6-93)

RECORDATION FOR...

102048803

of Commerce

OMB No. 0651-001 (exp. 4/94)

PATENTS ONLY

Attorney Docket No. AF01140

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

1. Name of conveying party(ies): a. NGO, Minh Van b. HALLIYAL, Arvind c. KAMAL, Tazrien d. SHIRAIWA, Hidehiko e. SUGINO, Rinji Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2. Name and address of receiving party(ies): ADVANCED MICRO DEVICES, INC. One AMD Place Sunnyvale, CA FUJITSU LIMITED 1-1 Kamikodanaka 4-chome Nakahara-ku, Kawasaki-shi Kanagawa-ken Japan Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
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): 2/21/02, 2/25/02, 2/21/02, 2/26/02, 2/26/02						
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: <u>Feb. 21, 2002</u> A. Patent Application No(s). Serial No.: Date Filed: B. Patent No(s). <u>10/109234</u> Additional numbers attached? <u>NO</u>						
5. Name and address of party to whom correspondence concerning document should be mailed: <b>Mikio Ishimaru</b> <b>The Law Offices of Mikio Ishimaru</b> <b>1110 Sunnyvale-Saratoga Rd.</b> <b>Suite A1</b> <b>Sunnyvale, CA 94087</b>		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)				
DO NOT USE THIS SPACE						
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 border="0" style="width: 100%;"> <tr> <td style="width: 33%; text-align: center;"> <u>Mikio Ishimaru</u>            Name of Person Signing         </td> <td style="width: 33%; text-align: center;"> <u>Mikio Ishimaru</u>            Signature         </td> <td style="width: 33%; text-align: center;"> <u>March 27, 2002</u>            Date         </td> </tr> </table> Total number of pages including cover sheet, attachments, and document: <u>7</u>				<u>Mikio Ishimaru</u> Name of Person Signing	<u>Mikio Ishimaru</u> Signature	<u>March 27, 2002</u> Date
<u>Mikio Ishimaru</u> Name of Person Signing	<u>Mikio Ishimaru</u> Signature	<u>March 27, 2002</u> Date				

Do not detach this portion

Mail document to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

Box Assignment

Washington, D.C. 20231

04/09/2002 6TON11 00000047 500374 10109234

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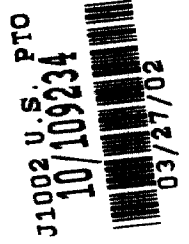
 PATENT  
 REEL: 012755 FRAME: 0479

**Attachment to Form PTO - 1595  
Recordation Form Cover Sheet  
Attorney Docket No. AF01140**

Additional Conveying Parties:

f. Dawn Hopper

g. Pei-Yuan Gao



Additional Execution Dates:

- 2/27/02

- 2/21/02

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-

**JOINT TO CORPORATE ASSIGNMENT**

WHEREAS, the undersigned Inventors:

1. Minh Van Ngo

a resident of 40986 Canon Heights Dr. Fremont, CA 94539

2. Arvind Halliyal

a resident of 20679 Shelly Drive, Cupertino, CA 94014

3. Tazrien Kamal

a resident of 390 Elan Village Ln. #304, San Jose, CA 95134

4. Hidehiko Shiraiwa

a resident of 1208 Valley Quail Circle, San Jose, CA 95120

5. Rinji Sugino

a resident of 1040 Corvette Drive, San Jose, CA 95129

6. Dawn Hooper

a resident of 4327 Verdigris Circle, San Jose, CA 95134; and

7. Pei-Yuan Gao

a resident of 1083 Bentoak, San Jose, CA 95129

have invented certain new and useful improvements in:

**LINER FOR SEMICONDUCTOR MEMORIES AND  
MANUFACTURING METHOD THEREFOR**

and have executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:



On the Date of Execution of Declaration for Patent Application set forth below adjacent to my signature;

WHEREAS Advanced Micro Devices, Inc. (hereinafter termed "Assignee"), a corporation of the State of Delaware, having a place of business at One AMD Place, Sunnyvale, California and Fujitsu Limited (hereinafter termed "Assignee"), a corporation of the Country of Japan, having a place of business at 1-1 Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa-ken, wish to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by each of said Inventors to have been received in full from said Assignees:

1. Said Inventors do hereby sell, assign, transfer and convey to said Assignees, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any or all countries of the world for patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignees to enable said Assignees to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignees (a) for perfecting in said Assignees the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting applications for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignees.

3. The terms and covenants of this Assignment shall inure to the benefit of said Assignees, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed this instrument on the date of acknowledgement before the Notary Public as given below and delivered this instrument to said Assignees.

Date of Execution of Declaration for Patent Application: 2/21/02

(1) Minh Van Ngo  
Minh Van Ngo

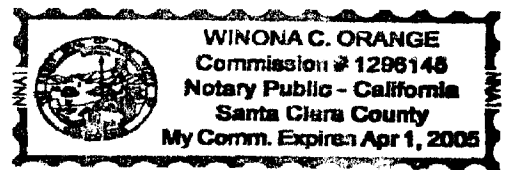
State of California )  
                                  )ss  
County of Santa Clara )

On February 21, 2002 before me, WINONA C. ORANGE, Notary Public,  
(name and title of officer)

personally appeared Minh Van Ngo, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is are subscribed to the within instrument and acknowledged to me that he ~~she~~ ~~they~~ executed the same in (his) ~~her~~ ~~their~~ authorized capacity(ies), and that by his ~~her~~ ~~their~~ signature(s) on the 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 Winona C. Orange



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Date of Execution of Declaration for Patent Application: 2/25/02

(2) Arvind Halliyal  
Arvind Halliyal

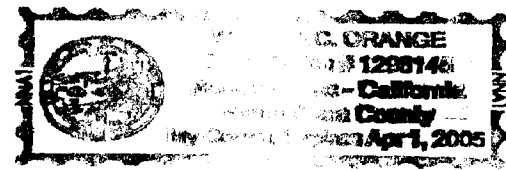
State of California )  
                                  )ss  
County of Santa Clara )

On Feb. 25, 2002 before me, WINONA C. ORANGE, Notary Public,  
(name and title of officer)

personally appeared Arvind Halliyal, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is are subscribed to the within instrument and acknowledged to me that he ~~she~~ ~~they~~ executed the same in (his) ~~her~~ ~~their~~ authorized capacity(ies), and that by his ~~her~~ ~~their~~ signature(s) on the 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 Winona C. Orange



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Date of Execution of Declaration for Patent Application: 02/21/02

(3) Tazrien Kamal  
Tazrien Kamal

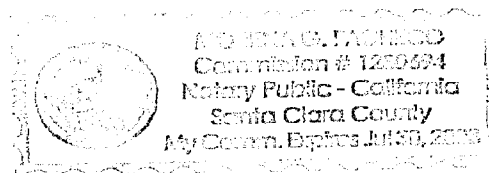
State of California )  
 )ss  
County of Santa Clara )

On February 21, 2002 before me, Morena G. Pacheco, Notary Public  
(name and title of officer)

personally appeared Tazrien Kamal, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the 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 Morena G. Pacheco



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Date of Execution of Declaration for Patent Application: Feb/26/02

(4) Hidehiko Shiraiwa  
Hidehiko Shiraiwa

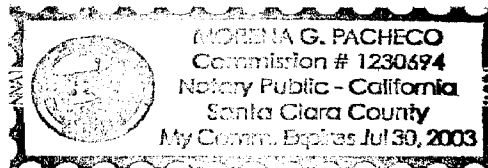
State of California )  
 )ss  
County of Santa Clara )

On February 26, 2002 before me, Morena G. Pacheco, Notary Public  
(name and title of officer)

personally appeared Hidehiko Shiraiwa, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the 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 Morena G. Pacheco



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Date of Execution of Declaration for Patent Application: Feb. 26, 2002

(5) R. Sungino  
Rinji Sungino

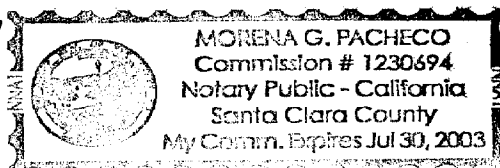
State of California )  
 )ss  
County of Santa Clara )

On February 26, 2002 before me, Morena G. Pacheco, Notary Public  
(name and title of officer)

personally appeared Rinji Sungino, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the 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 Morena G. Pacheco



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Date of Execution of Declaration for Patent Application: Feb 27, 2002

(6) Dawn M. Hopper  
Dawn Hopper

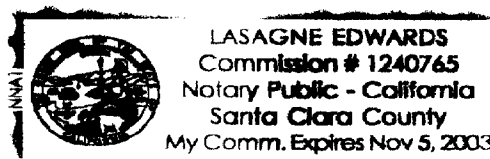
State of California )  
 )ss  
County of Santa Clara )

On February 27, 2002 before me, Lasagne Edwards, notary public  
(name and title of officer)

personally appeared Dawn Hopper, personally known to me (~~or proved to me on the basis of satisfactory evidence~~) to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies), and that by ~~his/her/their~~ signature(s) on the 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 Lasagne Edwards



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Date of Execution of Declaration for Patent Application: 2/21/2002

(T) Pei-Yuan Gao  
Pei-Yuan Gao

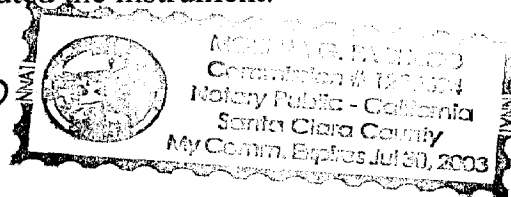
State of California )  
                                  )ss  
County of Santa Clara )

On February 21, 2002 before me, Morena G. Pacheco, Notary Public,  
(name and title of officer)

personally appeared Pei-Yuan Gao, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the 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 Morena G. Pacheco



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