

05-29-2002

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



102105572

U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. AF01141

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

<p>1. Name of conveying party(ies):</p> <p>a. YANG, Jean Y.</p> <p>b. HALLIYAL, Arvind <i>05/16/02</i></p> <p>c. JAFARPOUR, Amir H.</p> <p>d. KAMAL, Tazrien</p> <p>e. RAMSBEY, Mark T.</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>ADVANCED MICRO DEVICES, INC. One AMD Place Sunnyvale, CA</p> <p>FUJITSU LIMITED 1-1 Kamikodanaka 4-chome Nakahara-ku, Kawasaki-shi Kanagawa-ken Japan</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"/> Change of Name</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Other</p> <p>Execution Date(s): <u>3/18/02, 3/22/02, 4/12/02, 3/22/02, 3/2/02</u></p>	
<p>4. Application number(s) or patent number(s): <i>10/151576</i></p> <p>If this document is being filed together with a new application, execution date of the application is: <u>3/18/02</u></p> <p>A. Patent Application No(s). Serial No.: Date Filed:</p> <p>B. Patent No(s).</p> <p>Additional numbers attached? <u>NO</u></p>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Mikio Ishimaru The Law Offices of Mikio Ishimaru 1110 Sunnyvale-Saratoga Rd. Suite A1 Sunnyvale, CA 94087</p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total Fee (37 CFR 3.41): . . . <u>\$40.00</u></p> <p><input type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorization to be charged to deposit account</p> <p>8. Deposit Account Number: <u>50-0374</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
<p style="text-align: center;">DO NOT USE THIS SPACE</p>	
<p>9. Statement and signature.</p> <p><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></p> <p><u>Mikio Ishimaru</u> <i>Mikio Ishimaru</i> <u>May 16, 2002</u></p> <p>Name of Person Signing Signature Date</p> <p>Total number of pages including cover sheet, attachments, and document: <u>8</u></p>	

JCS07 U.S. PTO
10/151576
05/16/02

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

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Washington, D.C. 20231

05/28/2002 LMUELLER 00000093 500374 10151576

01 FC:581 40.00 CH

PATENT
REEL: 012921 FRAME: 0618

**Attachment to Form PTO - 1595
Recordation Form Cover Sheet
Attorney Docket No. AF01141**

Additional Conveying Parties:

- f. LINGUNIS, Emmanuil
- g. SHIRAIWA, Hidehiko
- h.

Additional Execution Dates:

- 3/22/02
- 3/19/02
-

JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned Inventors:

- (1) Jean Y. Yang,
a resident of 125 Connemara Way #17, Sunnyvale, CA 94087; and
- (2) Arvind Halliyal,
a resident of 20679 Shelly Drive, Cupertino, CA 95014; and
- (3) Amir H. Jafarpour,
a resident of 3951 Blacow Ct., Pleasanton, CA 94566; and
- (4) Tazrien Kamal,
a resident of 390 Elan Village Ln. #304, San Jose, CA 95134; and
- (5) Mark T. Ramsbey,
a resident of 402 Cumulus Avenue, Sunnyvale, CA 94087; and
- (6) Emmanuel Lingunis,
a resident of 330 Elan Village Ln. #406, San Jose, CA 95134; and
- (7) Hidehiko Shiraiwa,
a resident of 1208 Valley Quail Circle, San Jose, CA 95120.

have invented certain new and useful improvements in:

**MEMORY MANUFACTURING PROCESS
USING BITLINE RAPID THERMAL ANNEAL**

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: 3-18-2002

(1) Jean Y. Yang
Jean Y. Yang

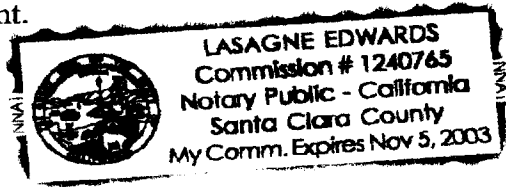
State of CALIFORNIA)
)ss
County of SANTA CLARA)

On March 18, 2002 before me, Lasagne Edwards, notary public
(name and title of officer)

personally appeared Jean Y. Yang, ~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the persons whose names is subscribed to the within instrument and acknowledged to me that ~~he~~ she executed the same in ~~his~~ her authorized capacity(~~s~~), and that by ~~his~~ her signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

Signature Lasagne Edwards



Date of Execution of Declaration for Patent Application: 3/22/02

(2) A. Halliyal
Arvind Halliyal

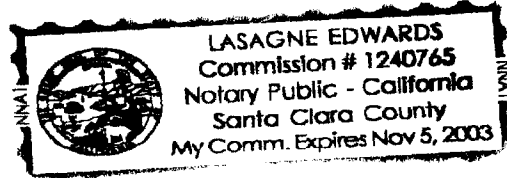
State of CALIFORNIA)
)ss
County of SANTA CLARA)

On March 22, 2002 before me, Lasagne Edwards, 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 persons whose names is subscribed to the within instrument and acknowledged to me that ~~he~~ she executed the same in ~~his~~ her authorized capacity(~~s~~), and that by ~~his~~ her signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

Signature Lasagne Edwards



Date of Execution of Declaration for Patent Application: 4/12/02

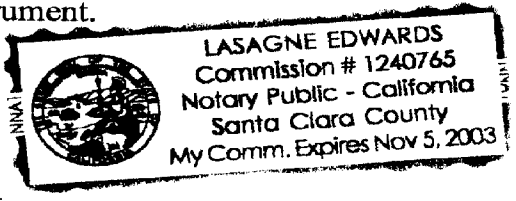
(3) Amir H. Jafarpour
Amir H. Jafarpour

State of CALIFORNIA)
)ss
County of SANTA CLARA)

On April 12, 2002 before me, Lasagne Edwards, notary public,
(name and title of officer)
personally appeared Amir H. Jafarpour, ~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the persons whose names is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity(~~ies~~), and that by his/~~her~~ signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

Signature Lasagne Edwards



Date of Execution of Declaration for Patent Application: 3/22/02

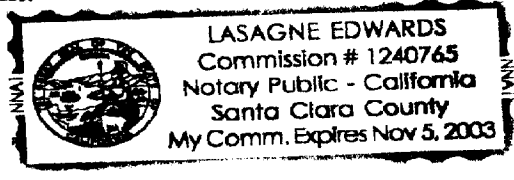
(4) Tazrien Kamal
Tazrien Kamal

State of CALIFORNIA)
)ss
County of SANTA CLARA)

On March 22, 2002 before me, Lasagne Edwards, 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 persons whose names is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity(~~ies~~), and that by his/~~her~~ signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

Signature Lasagne Edwards



Date of Execution of Declaration for Patent Application: 3/2/02

(5) Mark T. Ramsbey
Mark T. Ramsbey

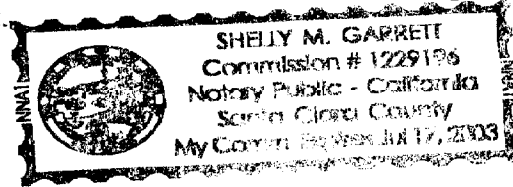
State of CALIFORNIA)
)ss
County of SANTA CLARA)

On March 22, 2002 before me, Shelly M. Garrett
(name and title of officer)

personally appeared Mark T. Ramsbey personally known to me (or proved to me on the basis of satisfactory evidence) to be the persons whose names is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity(~~ies~~), and that by his/~~her~~ signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

Signature Shelly M. Garrett



Date of Execution of Declaration for Patent Application: 3/22/02

(6) Emmanuel Linguis
Emmanuel Linguis

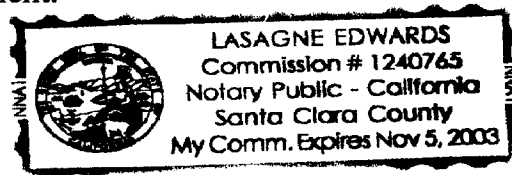
State of CALIFORNIA)
)ss
County of SANTA CLARA)

On March 22, 2002 before me, Lasagne Edwards, notary public
(name and title of officer)

personally appeared Emmanuel Linguis, personally known to me (or proved to me on the basis of satisfactory evidence) to be the persons whose names is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity(~~ies~~), and that by his/~~her~~ signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

Signature Lasagne Edwards



Date of Execution of Declaration for Patent Application: Mar 19/02

(7) [Signature]
Hidehiko Shiraiwa

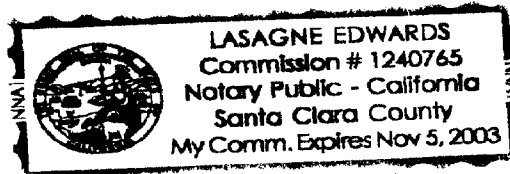
State of CALIFORNIA)
)ss
County of SANTA CLARA)

On March 22, 2002 before me, Lasagne Edwards, 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 persons whose names is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity(~~ies~~), and that by his/~~er~~ signatures on the instrument the persons, or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

Signature [Signature: Lasagne Edwards]



Note: No Legalization required