

09-20-2002



FORM PTO-1595  
(Rev. 6-93) RECORD A1  
OMB No. 0651-001 (exp. 4/94)

102227816  
**PATENTS ONLY**

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. G0812

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

1. Name of conveying party(ies): a. SAHOTA, Kashmir S. b. KAMAL, Tazrien c. RAMSBEY, Mark T.		2. Name and address of receiving party(ies): ADVANCED MICRO DEVICES, INC. One AMD Place P.O. Box 3453 Sunnyvale, CA 94088-3453	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		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): August 28, 2002, August 28, 2002, and September 12, 2002			
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: August 28, 2002			
A. Patent Application No(s). Serial No.:      Date Filed:		B. Patent No(s).	
Additional numbers attached? NO			
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: 1  7. Total Fee (37 CFR 3.41): . . . \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorization to be charged to deposit account	
		8. Deposit Account Number: 01-0365 (Attach duplicate copy of this page if paying by deposit account)	
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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>			
Mikio Ishimaru Name of Person Signing		Mikio Ishimaru Signature	
		September 13, 2002 Date	
Total number of pages including cover sheet, attachments, and document: 4			

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Commissioner of Patents and Trademarks  
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JC971 U.S. PTO  
10/243108  
09/13/02

**PATENT**  
**REEL: 013298 FRAME: 0156**

## ASSIGNMENT

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

### MEMORY WORDLINE SPACER

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

WHEREAS, ADVANCED MICRO DEVICES, INC., a Corporation of the State of Delaware, having a place of business at One AMD Place, P.O. Box 3453, Sunnyvale, California 94088-3453, (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 and (c) prompt 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.
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 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: 8/28/02

(1) Kashmir S. Sahota  
Kashmir S. Sahota

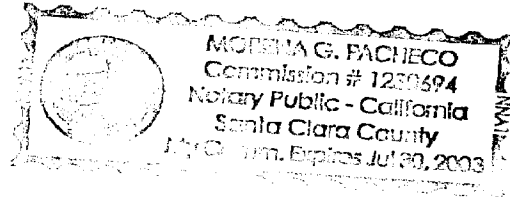
State of CALIFORNIA )  
County of Santa Clara )ss

On August 28, 2002 before me, Morena G. Pacheco, Notary Public  
(name and title of officer)

personally appeared Kashmir S. Sahota, 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 Morena G. Pacheco



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Date of Execution of Declaration for Patent Application: 8-28-02

(2) Tazrien Kamal  
Tazrien Kamal

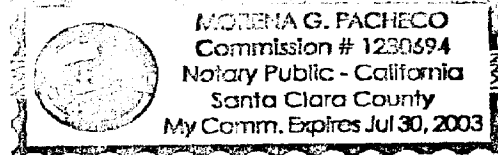
State of CALIFORNIA )  
County of Santa Clara )ss

On August 28, 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 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 Morena G. Pacheco



Date of Execution of Declaration for Patent Application: 9/12/02

(3) Mark T. Ramsbey  
Mark T. Ramsbey

State of CALIFORNIA )

County of Santa Clara )ss

On September 12, 2002 before me, Morena G. Pacheco, Notary Public,  
(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

Morena G. Pacheco

