	U.O. DEDADTMENT OF COMMEDCE	
Form PTO-1595 RECORDATION FORM COVER SHEET U.S. DEPARTMENT OF COMMERCE (Rev. 10/02) PATENTS ONLY U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office		
OMB No. 0651-0027 (exp. 6/30/2005)	Docket No. H0620	
To the Henerable Commissioner of Patente and Trademorks	Please record the attached original documents or copy thereof.	
	Name and address of receiving party(ies)	
1. Name of conveying party(ies): Edward Hsia Yi He	Name: Advanced Micro Devices, Inc.	
Darlene G. Hamilton	Name:	
Kulachet Tanpairoj	Internal Address:	
Mimi Lee Alykhan F. Madhani		
Additional name(s) of conveying party(ies) attached? Yes V No		
3. Nature of conveyance:		
Assignment Merger	One AMP Place	
Security Agreement Change of Name	Street Address: One AMD Place	
	P.O. Box 3453	
Other		
Hsia 12/19/02; Hamilton 1/27/03, Tanpairoj 1/14/03;	City: Sunnyvale State: OH Zip: 94088-3453	
Execution Date: 2/7/03 Tangarro 1/14/03; Madhani	Additional name(s) & address(es) attached? Yes V No	
4. Application number(s) or patent number(s):		
If this document is being filed together with a new appl	cation, the execution date of the application is:	
A. Patent Application No.(s)	B. Patent No.(s)	
10/422,276		
Additional numbers attached? Yes V No		
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: M. David Galin	7. Total fee (37 CFR 3.41)\$\$40.00	
	Enclosed	
Internal Address:		
Renner, Otto, Boisselle & Sklar, LLP	Authorized to be charged to deposit account	
	O. Daniella annual must be a	
4.000 Page 51.5 Page 51.5	8. Deposit account number:	
Street Address: 1621 Euclid Avenue	10.0000	
Nineteenth Floor	18-0988	
City: Cleveland State: OH Zip: 44115		
DO NOT USE THIS SPACE		
9. Signature.		
	52-2-A1. N-1-2 2003	
M. David Galin, Reg. No. 41,767 Name of Person Signing	Signature Date	
Total number of pages including cover sheet, attachments, and documents:		
Mail documents to be recorded with required cover sheet information to:		

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

AMD Docket No. H0620US

<u>ASSIGNMENT</u>

For good and valuable consideration, receipt and sufficiency of which are hereby acknowledged, the undersigned

Edward Hsia, 18723 Wood Dell Court, Saratoga, California 95070
Darlene G. Hamilton, 5824 Ponce, San Jose, California 95118
Kulachet Tanpairoj, 948 Wing Place, Palo Alto, California 94305
Mimi Lee, 2362 Bohannon Drive, Santa Clara, California 95050
Alykhan F. Madhani, 1321 Jonathan Street #3, Santa Clara, California 95050
Yi He, 3919 Riverbend Terrace, Fremont, California 94555

hereby sell(s) and assign(s) to ADVANCED MICRO DEVICES, INC., a corporation of Delaware having a place of business at One AMD Place, P.O. Box 3453, Sunnyvale, California 94088-3453, U.S.A., its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions entitled

METHOD OF PROGRAMMING AND READING A DUAL CELL MEMORY DEVICE

for which application for United States Letters Patent has been filed on 4/24/03
under Serial No. 10/422,276 or was executed by the undersigned on the date
below and is being filed concurrently herewith, said application for United States
Letters Patent, and all United States provisional patent applications on which priority
is claimed, including but not limited to, application Serial No.
any and all other applications for Letters Patent on Said
inventions in countries foreign to the United States, including all divisional, renewal,
substitute, continuation and Convention applications based in whole or in part upon
said inventions or upon said applications, and any and all Letters Patent and
reissues and extensions of Letters Patent granted for said inventions or upon said
applications, and every priority right that is or may be predicated upon or arise from
said inventions, said applications and said Letters Patent; said assignee peing
bereby authorized to file patent applications in any or all countries on any or all said
inventions in the name of the undersigned or in the name of said assignee or
otherwise as said assignee may deem advisable, under the International Convention
or otherwise: the Commissioner of Patents and Trademarks of the United States of
America and the empowered officials of all other governments being hereby
authorized to issue or transfer all said Letters Patent to said assignee in accordance
berewith: this assignment being under covenant, not only that full power to make the
same is had by the undersigned, but also that such assigned right is not
oncumbered by any grant license, or other right heretotore given, and that the
undersigned will do all acts reasonably serving to assure that said inventions, patent
applications and Letters Patent shall be held and enjoyed by said assignee as fully

Page 1 of 5

AMD Docket No. H0620US

and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

I authorize the patent attorney of record and/or having power of attorney in the U.S. patent application identified above to insert the serial number and filing date information for the patent application in the appropriate spaces in this assignment document when that information becomes available.

Signed:

Date:

12/18/02

Edward Hsia

1-27-03

Darlene G. Hamilton

1/4/03

Kulaeket Tampairo

Tanpairo

Tanpairo

Mimi Lee

Alykhan F. Madhani

1-31-03

PATENT REEL: 13633 FRAME: 0442 AMD Docket No. H0620US

CERTIFICATE OF ACKNOWLEDGMENT		
State of California		
County of <u>Sarsta</u> Clara		
On Dec. 19 2002 before me. 11.		

Name(s) of Signer(s



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.

New L. Jacker

Signature of Notary Public

CERTIFICATE OF ACKNOWLEDGMENT

State of California
County of Santa Clara
On Jan. 27, 2003 before me, Morana G. Lachaco, Notary Tublic Name and Title of Officer (e.g., "Jane Doe, Notary Public")
personally appeared

MORENA G. PACHECO Commission # 1230694 Notary Public - California Santa Clara County My Comm. Expires Jul 30, 2003 □ 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 of Notary Public

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PATENT

Page 3 of 5

REEL: 13633 FRAME: 0443

AMD Docket No. H0620US		
CERTIFICATE OF ACKNOWLEDGMENT		
State of California		
County of Ganta Clara	- 00, 11 DI	
On Jan . 14, 2003 before me, 1	Name and Title of Officer (e.g., "Jane Doe, Notary Public")	
personally appeared		
MORENA G. PACHECO Commission # 1230694 Notary Public - California \$ Santa Clara County My Comm. Expires Jul 30, 2003	personally known to me - OR - Deproved 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 of Notary Public	
CERTIFICATE O	F ACKNOWLEDGMENT	
State of		
MORENA G. PACHECO Commission # 1230694 Notary Public - California \$ Santa Clara County My Comm, Expires Jul 30, 2003	personally known to me - OR - P 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 of Notary Public	

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PATENT

Page 4 of 5

REEL: 13633 FRAME: 0444

AMD Docket No. H0620US	
State of <u>California</u> County of Santa Clara	Notaku Jindra C. Orange Public Name and Title of Officer (e.g., "Jane Doe, Notary Public") F. Madhan
WINONA C. ORANGE Commission # 1298145 Notary Public - California Santa Clara County My Comm. Expires Apr 1, 2005	personally known to me OR - X proved to me on the basis of satisfactory evidence to be the person(s) whose name(s)(s) are subscribed to the within instrument and acknowledged to me that (ne/she/they executed the same in (nis/her/their authorized capacity(iss), and that by (nis/her/their signature(x) 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 of Notary Public OF ACKNOWLEDGMENT
State of California County of Santa Clara On Varnay 31, 2603 before me, personally appeared Yi He Name(s) of Signature Name(s) of Signature Name(s)	Morena G. Jachelo, Notary Public") Name and Title of Officer (e.g., "Jane Doe, Notary Public") gner(s)
MORENA G. PACHECO Commission # 1230694 Notary Public - California \$ Santa Clara County My Comm. Expires Jul 30, 2003	□ 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) or the instrument the person(s), or the entity upon beha of which the person(s) acted, executed the instrument. WITNESS my hand and official seal.

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REEL: 13633 FRAME: 0445

LAW OFFICES

RENNER, OTTO, BOISSELLE & SKLAR, LLP

|621 EUCLID AVENUE, NINETEENTH FLOOR
CLEVELAND, OHIO 44115-2191
TEL: (216) 621-1113 FAX: (216) 821-6165
EMAIL: MAILROOMPRENNEROTTO.COM

May 7, 2003

Direct email: dgalin@rennerotto.com

Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, Virginia 22313-1450

Re: Recordal of Assignment for

U.S. Patent Application Serial No. 10/422,276

Our Ref.: H0620U\$

Sir:

Please record the attached Assignment document with respect to the above U.S. patent application, and return same to the undersigned.

We authorize the USPTO to charge the amount of \$40.00 in satisfaction of the recordal fee to our Deposit Account No. 18-0988, Order No. AMDSPH0620US. A duplicate copy of this letter is enclosed for fee processing.

Very truly yours,

M. David Galin

Reg. No.: 41,767

MDG/kh Attachments

RECORDED: 05/07/2003

CERTIFICATE OF FACSIMILE TRANSMISSION UNDER 37 C.F.R. § 1.8(a)

I hereby certify that this paper and the documents attached herewith are being facsimile transmitted to Mail Stop Assignment Recordation Services, the U.S. Patent and Trademark Office, facsimile number (703) 306-5995, on the date indicated below.

Date: May 7, 2003

M. David Galin

\\robs-2k\\secretary\\SEC109\\CA\SES\\amds\\H\\files\\H0620us\\amdsph0620us.assign\fax\record

PATENT REEL: 13633 FRAME: 0446