Form **PTO-1595** (Rev. 06/04) OMB No. 0651-0027 (exp. 6/30/2005)

I

10-13-2004



U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

102857386

To the Director of the U.S. Patent and Trademark Office: Plea	se record the attached documents or the new address(es) below.
1. Name of conveying party(ies)/Execution Date(s):	· · · · · · · · · · · · · · · · · · ·
Christopher F. Lyons Ramkumar Subramanian	Name:Advanced Micro Devices, Inc.
Sergey D. Lopatin	Internal Address:
James J. Xie Angela T. Hui	
Angela T. Hui Execution Date(s) 6/14/04; 6/15/04; 6/16/04; 7/6/04	Street Address: One AMD Place, P.O. Box 3453
Additional name(s) of conveying party(ies) attached? Yes No	Street Address.
3. Nature of conveyance:	
Assignment Merger	City: Sunnyvale
Security Agreement Change of Name	State:California
Government Interest Assignment	USA - 94088
Executive Order 9424, Confirmatory License	Country: USA Zip: 94088
Other	Additional name(s) & address(es) attached? Yes
4. Application or patent number(s):	document is being filed together with a new application
A. Patent Application No.(s)	B. Patent No.(s)
/004 HALI11 00000029 10957247	10957247
021 40.00 DP	
	ttached? Yes No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Gregory Turocy	
	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address:	Authorized to be charged by credit card
Amin & Turocy, LLP	Authorized to be charged to deposit account
Street Address: 24th Floor, National City Center	Enclosed
1900 E. 9th Street	None required (government interest not affecting title
City: Cleveland	8. Payment Information
State: Ohio Zip: 44114	a. Credit Card Last 4 Numbers 7626
Phone Number: 216-696-8730	Expiration Date <u>02/07</u>
040.000.0704	b. Deposit Account Number50-1063
Fax Number: 216-696-8731	Authorized User Name Gregory Turocy
Email Address:	Addionzed Osci Hairie
9. Signature:	October 1, 2004
Signature	Date
Gregory Turocy, 36,952	Total number of pages including cover
Name of Person Signing	sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

For good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, the undersigned

Christopher F. Lyons 42681 Lerwick Street Fremont, CA 94539

James J. Xie 1628 Wharton Road San Jose, CA 95132

Ramkumar Subramanian 1155-D La Rochelle Terrace Sunnyvale, CA 94089 Angela T. Hui 362 Pilgrim Loop Fremont, CA 94539

Sergey D. Lopatin 1000 Kiely Blvd., #66 Santa Clara, CA 95051

hereby sell and assign 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

SO₂ TREATMENT OF OXIDIZED CuO FOR COPPER SULFIDE FORMATION OF MEMORY ELEMENT GROWTH

for which application for United States Letters Patent has been filed on _____ Serial No. _____, or was executed by the undersigned on the date below and is being filed concurrently herewith, said application for United States Letters Patent, 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 being hereby 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 herewith; 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 encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that said inventions, patent applications and

> PATENT REEL: 015868 FRAME: 0108

Letters Patent shall be held and enjoyed by said assignee as fully 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.

Signed:

Christopher P. Lyons

Date

CERTIFICATE OF ACKNOWLEDGMENT

State of

County o

On (/u / V 6, 2004 before me,

Name and Title of Officer (e.g., "Jane Do

Notary Public") personally appeared

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.

M. PACHECO
Commission # 1428556
Notary Public - California
Santa Clara County
My Comm. Expires Jul 30, 2007

WITNESS my hand and official seal.

Signature of Notary Public

2

AMD Docket No. H0406	
Signed:	Date:
Waln	6/14/06
Ramkumar Subramanian	
CERTIFIC	CATE OF ACKNOWLEDGMENT
State of California	í
County of Santa Cl On June 14, 2004 befo	ne me, M. Pacheer Notary Public. Name and Title of Officer (e.g., "Jane Doe,
	nkumar Subramanian
	ne(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/h er/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.
M. PACHECO	WITNESS methand and official seal

Signature of Notary Public

M. PACHECO
Commission # 1428556
Notary Public - California
Santa Clara County
My Comm. Expires Jul 30, 2007

3

WITNESS my hand and official seal.

Signature of Notary Public

M. PACHECO
Commission # 1428556
Notary Public - California
Santa Clara County
My Comm. Expires Jul 30, 2007

WITNESS my hand and official seal.

ignature of Notary Public

M. PACHECO
Commission # 1428556
Notary Public - California
Santa Clara County
My Comm. Expires Jul 30, 2007

5

Signed:

CERTIFICATE OF ACKNOWLEDGMENT

6/15/0

before me,

Notary Public") personally appeared

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 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

M. PACHECO Commission # 1428556 Notary Public - California Santa Clara County

RECORDED: 10/01/2004