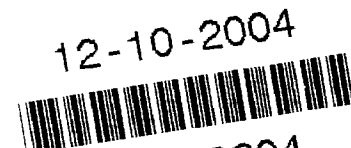


REC'D



102898604
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Amit P. Marathe
Calvin T. Gabriel

12-01-04

Execution Date(s) 09/21/04

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

2. Name and address of receiving party(ies)

Name: Advanced Micro Devices, Inc.

Internal Address:

Street Address: One AMD Place

P.O. Box 3453

City: Sunnyvale

State: California

Country: USA Zip: 94088-3453

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Himanshu S. Amin

Internal Address: Amin & Turocy, LLP

Street Address: 24th Floor, National City Center
1900 E. 9th Street

City: Cleveland

State: Ohio Zip: 44114

Phone Number: (216) 696-8730

Fax Number: (216) 696-8731

Email Address:

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers 7626
Expiration Date 02/07

b. Deposit Account Number

Authorized User Name

9. Signature:

Signature

December 1, 2004

Date

Himanshu S. Amin, Reg. No. 40,894

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

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

12/03/2004 HTECKLU1 00000031 11001151

03 FC:8021

40.00 DP

PATENT
REEL: 016049 FRAME: 0911

ASSIGNMENT

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

Amit P. Marathe	<i>APM 9/21/04</i>	Calvin T. Gabriel
1307 Edsel Drive	<i>1242 Van Dyck Drive</i>	1496 Rose Garden Lane
Milpitas, California 95035	<i>Sunnyvale, CA 94087</i>	Cupertino, California 95014

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

**QUANTIFYING AND PREDICTING THE IMPACT OF LINE EDGE ROUGHNESS
ON DEVICE RELIABILITY AND PERFORMANCE**

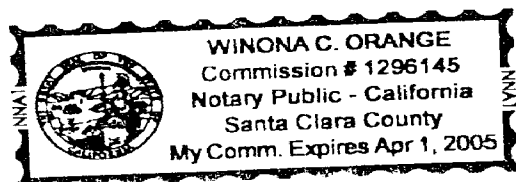
for which application for United States Letters Patent has been filed on _____ under Serial No. _____, or was executed by the undersigned on the date below and is being filed concurrently herewith, said application for United States Letters Patent, any and all other applications for Letters Patent on 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 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:

Date:

A.P. Marathe
Amit P. Marathe

9/21/04

CERTIFICATE OF ACKNOWLEDGMENTState of CaliforniaCounty of Santa ClaraOn September 21, 2004 before me, Winona C. Orange, Notary Public
Name and Title of Officer (e.g., "Jane Doe, Notary Public")personally appeared Amit P. Marathe
Name(s) of Signer(s)

X personally known to me - ~~OR -~~ ~~proved to me on the basis of satisfactory evidence~~ to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Winona C. Orange
Signature of Notary Public