

09-11-2003
102546901

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

1. Name of conveying party(ies):

Khoi A. Phan
Bharath Rangarajan
Bhanwar Singh

9-2-03

Additional name(s) of conveying
party(ies) attached? [] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other _____

Execution Date: August 15, 2003 and August 19, 2003

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/Country: California ZIP: 94088-3453

Additional name(s) & address(es) attached? [] Yes [X] No

4. Application number(s) or patent number(s):

August 15, 2003

If this document is being filed together with a new application, the execution date of the application is: August 19, 2003

A. Patent Application No.(s)

B. Patent No.(s)

10453309

Additional Numbers attached? [] Yes [X] No

5. Name and address of party 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

6. Total number of applications and patents involved: [1]

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

[] Enclosed

[X] Authorized to be charged to deposit account

8. Deposit account number:

50-1063

(Attach duplicate copy of this page if paying by deposit account)

09 10/2003 DBYRNE 00000077 501063 10653309

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9. Statement and signature.

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.

Himanshu S. Amin

Name of Person Signing

Signature

September 2, 2003

Date

Reg. No. 40,894 Total number of pages including cover sheet attachments, and document: [5]

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

ASSIGNMENT

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

Khoi A. Phan
5796 Trowbridge Way
San Jose, California 95138

Bharath Rangarajan
1111 Timberpine Court
Sunnyvale, California 94086

Bhanwar Singh
17122 Heatherwood Way
Morgan Hill, California 95037

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

**PATTERN RECOGNITION AND METROLOGY STRUCTURE
FOR AN X-INITIATIVE LAYOUT DESIGN**

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:

Khoi A. Phan
Khoi A. Phan

8/15/03

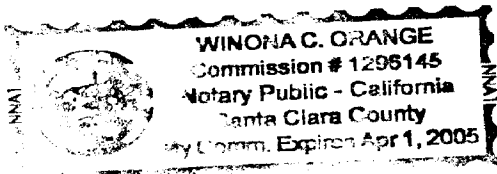
CERTIFICATE OF ACKNOWLEDGMENTState of CaliforniaCounty of Santa Clara

On August 15, 2003 before me, WINONA C. ORANGE, Notary Public
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Khoi A. Phan
Name(s) of Signer(s)

~~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

Signed:

Date:

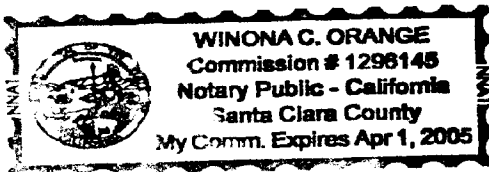
Bharath Rangarajan
Bharath Rangarajan

8/19/03

CERTIFICATE OF ACKNOWLEDGMENTState of CaliforniaCounty of Santa ClaraOn August 19, 2003 before me, WINONA C. ORANGE Notary Public,
Name and Title of Officer (e.g., "Jane Doe, Notary Public")Personally appeared Bharath Rangarajan
Name(s) of Signer(s)

~~personally known to me~~ ~~OR~~ ~~proven~~ ~~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

Signed:

Date:

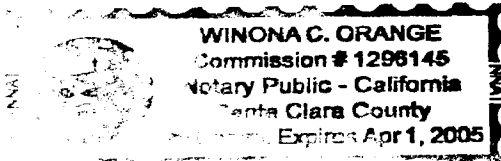
B Singh
Bhanwar Singh

Aug 15, 2003

CERTIFICATE OF ACKNOWLEDGMENTState of CaliforniaCounty of Santa ClaraOn August 15, 2003 before me, WINONA C. ORANGE, Notary Public,
Name and Title of Officer (e.g., "Jane Doe, Notary Public")Personally appeared Bhanwar Singh
Name(s) of Signer(s)

~~/ 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