

08-02-2001

FORM PTO-1595
(REV 6-93)

RECO



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

OMB No. 0651-011 (exp.4/94)

101797335

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

1. Name of conveying party(ies): 7/23/01
 Bharath RANGARAJAN
 Khoi A. PHAN
 Ramkumar SUBRAMANIAN

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

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, U.S.A. ZIP: 94088

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

3. Nature of conveyance:
 Assignment [] Merger
 Security Agreement [] Change of Name
 Other _____

Execution Date: 6/29;7/2;7/3/01

4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is: 6/29;7/2;7/3/01

A. Patent Application No.(s) | B. Patent No.(s) 09/911241

Additional Numbers attached? [] Yes [x] No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Gregory Turocy
 Internal Address: _____

 Street Address: Amin & Turocy, L.L.P.
24th Floor, 1900 East 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
 Authorized to be charged to deposit account

8. Deposit account number:
50-1063
 (Attach duplicate copy of this page if paying by deposit account)

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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.

Gregory Turocy Gregory Turocy July 23 2001
 Name of Person Signing Signature Date

Reg. No. 36,952 Total number of pages including cover sheet attachments, and document: [4]

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

PATENT
REEL: 012017 FRAME: 0911

U.S. PTO
 09/911241
 07/23/01

ASSIGNMENT

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

Bharath Rangarajan
2295 Dolores Avenue
Santa Clara, California 95050

Khoi A. Phan
3841 Thousand Oaks Drive
San Jose, California 95136

Ramkumar Subramanian
4271 Norwalk Drive, # X-105
San Jose, California 95129

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

**SYSTEM AND METHOD FOR CONTROL OF HARDMASK ETCH
TO PREVENT PATTERN COLLAPSE OF ULTRA-THIN RESISTS**

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:

Bharath Rangarajan → 7/2/01
Bharath Rangarajan

CERTIFICATE OF ACKNOWLEDGMENT

State of California

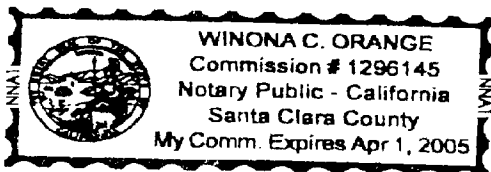
County of Santa Clara

On 07/03/01 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 - 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.

Winona C. Orange
Signature of Notary Public

Signed:

Date:

Khoi A. Phan
Khoi A. Phan

7/02/01

CERTIFICATE OF ACKNOWLEDGMENT

State of California

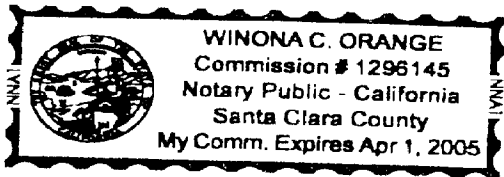
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personally appeared Khoi A. Phan
Name(s) of Signer(s)

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(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.

Winona C. Orange
Signature of Notary Public

Signed:

Date:

Ramkumar Subramanian
Ramkumar Subramanian

6/29/01

CERTIFICATE OF ACKNOWLEDGMENT

State of California

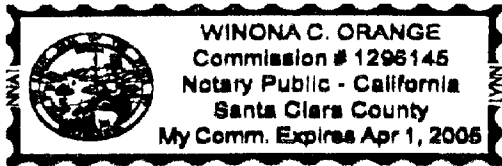
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personally appeared Ramkumar Subramanian
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Winona C. Orange
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