

09-16-2004

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

MED 09-07-04

U.S. PTO  
10935488  
17497



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

Luigi Capodiec  
Bhanwar Singh  
Ramkumar Subramanian

Execution Date(s) 08/17/04 and 8/18/04

Additional name(s) of conveying party(ies) attached?  Yes  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: California

Country: USA Zip: 94088-3453

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

**3. Nature of conveyance:**

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

**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)

10935488

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:**

September 7, 2004

Signature

Date

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

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

5

Name of Person Signing

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

09/09/2004 YPQLITE1 00000012 10935488

04 FC:8021

40.00 DP

ASSIGNMENT

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

Luigi Capodiecì  
315 Van Ness Avenue  
Santa Cruz, California 95060

Bhanwar Singh  
17122 Heatherwood Way  
Morgan Hill, California 95037

Ramkumar Subramanian  
1155-D La Rochelle Terrace  
Sunnyvale, California 94089

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

**METHOD FOR MANUFACTURING PLACE & ROUTE BASED  
ON 2-D FORBIDDEN PATTERNS**

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:

Luigi Capodiec  
Luigi Capodiec

8/17/2004

**CERTIFICATE OF ACKNOWLEDGMENT**

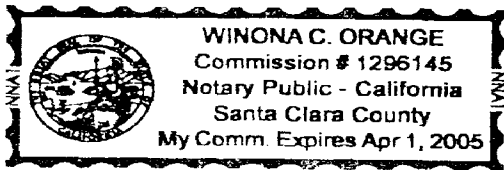
State of California

County of Santa Clara

On August 17, 2004 before me, WINONA C. ORANGE, Notary Public  
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Luigi Capodiec  
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

Signed:

Date:

Bhanwar Singh  
Bhanwar Singh

8/17/04

**CERTIFICATE OF ACKNOWLEDGMENT**

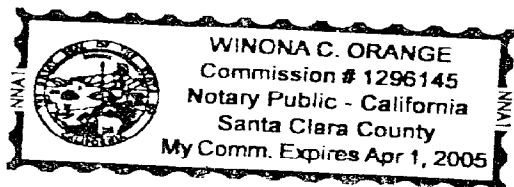
State of California

County of Santa Clara

On August 17, 2004 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 Signor(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:

Ramkumar Subramanian

Aug 18 2004

**CERTIFICATE OF ACKNOWLEDGMENT**

State of California

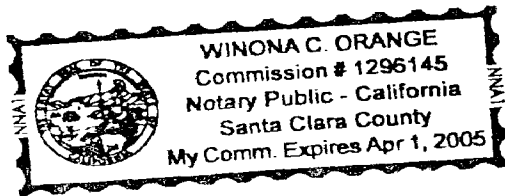
County of Santa Clara

On August 18, 2004 before me, Winona C. Orange, Notary Public,  
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Ramkumar Subramanian  
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